



SITE INFORMATION

Closure Report
Paloma 21 Federal Battery (12.11.2024)
Incident # NAPP2434753966
Lea County, New Mexico
Unit B Sec 21 T20S R34E
32.564457°, -103.563672°

Produced Water Release
Point of Release: Mechanical seal failed on water transfer pump
Release Date: 12.11.2024
Volume Released: 75 barrels of Produced Water
Volume Recovered: 30 barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Fasken Oil and Ranch, Ltd.
6101 Holiday Hill Road
Midland, Texas 79707

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



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March 10, 2025

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

**Re: Closure Report
Paloma 21 Federal Battery (12.11.2024)
Fasken Oil and Ranch, Ltd.
Incident # NAPP2434753966
Site Location: Unit B, S21, T20S, R34E
(Lat 32.564457°, Long -103.563672°)
Lea County, New Mexico**

To whom it may concern:

On behalf of Fasken Oil and Ranch, Ltd., Carmona Resources, LLC has prepared this letter to document the Paloma 21 Federal Battery site activities. The site is located at 32.564457 °, -103.563672° within Unit B, S21, T20S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on December 11, 2024, caused by a mechanical seal failure on a water transfer pump. It resulted in the release of approximately seventy-five (75) barrels of produced water, with thirty (30) barrels of produced water being recovered. The impacted area remained on the well pad, as shown in Figure 3. The Notice of Release and initial C-141 forms are attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. On January 28, 2025, Carmona Resources installed a groundwater determination bore located approximately 0.36 miles Northwest of the release area in S16, T20S, R34E. The bore indicated no signs of water at a depth of 105 feet below ground surface (ft bgs) when it was gauged on January 31, 2025. A copy of the groundwater determination bore log is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing 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: 20,000 mg/kg.

310 West Wall Street, Suite 500
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432.813.1992



4.0 Site Assessment Activities

On December 19, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) test trenches (T-1 through T-3) and five (5) horizontal samples (H-1 through H-5) were advanced to depths ranging from the surface to 8.0' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1. See Figure 3 for sample locations.

5.0 Remediation Activities

Carmona Resources personnel were on site to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via web portal on January 31, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C for correspondence. A total of two (2) floor confirmation samples were collected (CS-1 through CS-2), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figures 4.

All final confirmation samples were below regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Before the excavation was backfilled, a composite sample was collected on February 5, 2025. The backfill material was sourced locally from Lazy Ace Land Farm & Pit. Refer to Table 2. Once the remediation activities were completed, the excavated area was backfilled with clean material to surface grade. Approximately 225 square feet of contamination was remediated, resulting in approximately 25 cubic yards of material being excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. 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

Ashton Thielke
Environmental Manager

Conner Moehring
Environmental Manager

FIGURES

CARMONA RESOURCES





SITE LOCATION MAP
FASKEN OIL AND RANCH, LTD.
PALOMA 21 FEDERAL BATTERY (12.11.2024)
LEA COUNTY, NEW MEXICO
32.564457, -103.563672

CARMONA RESOURCES



FIGURE 1

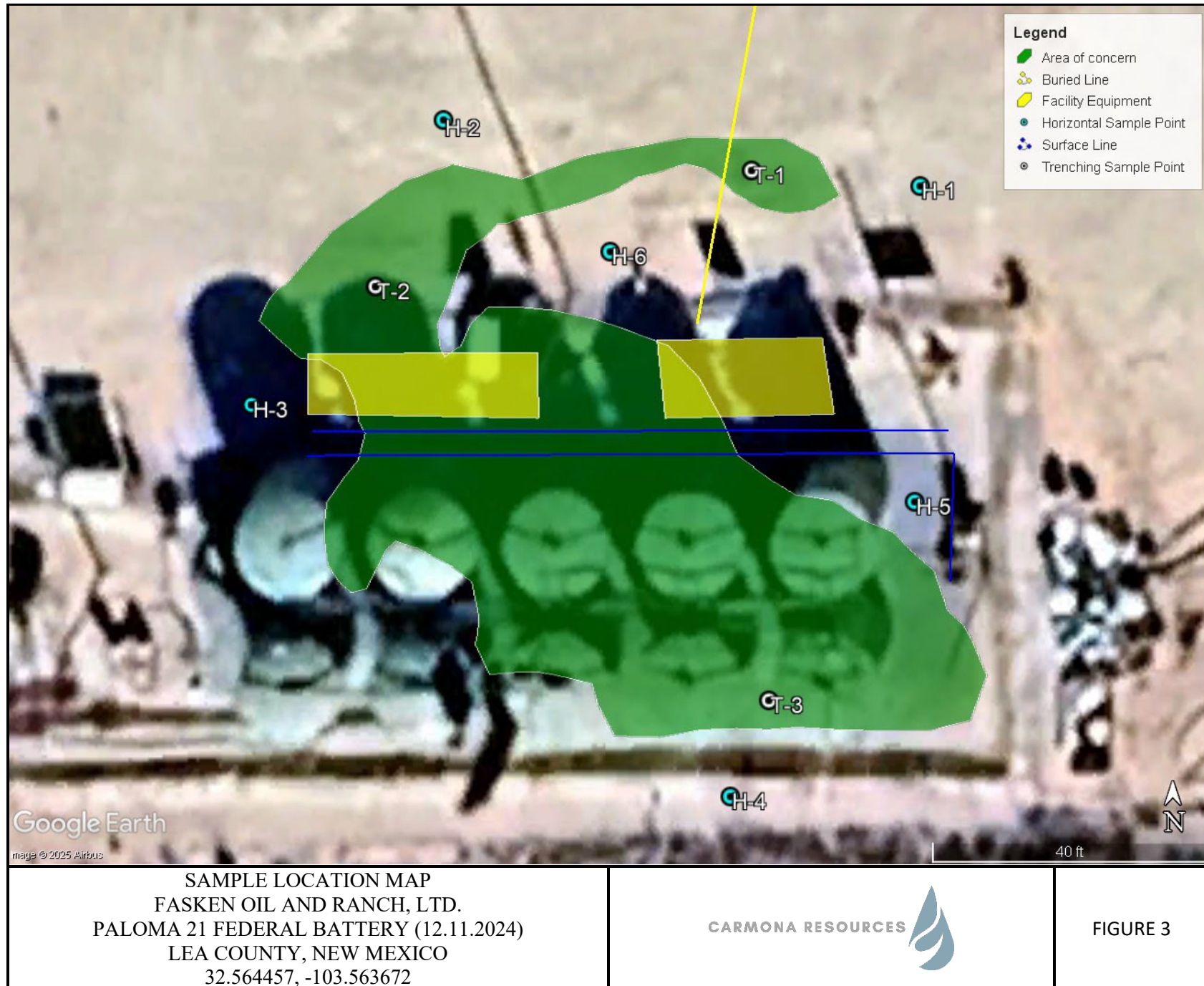


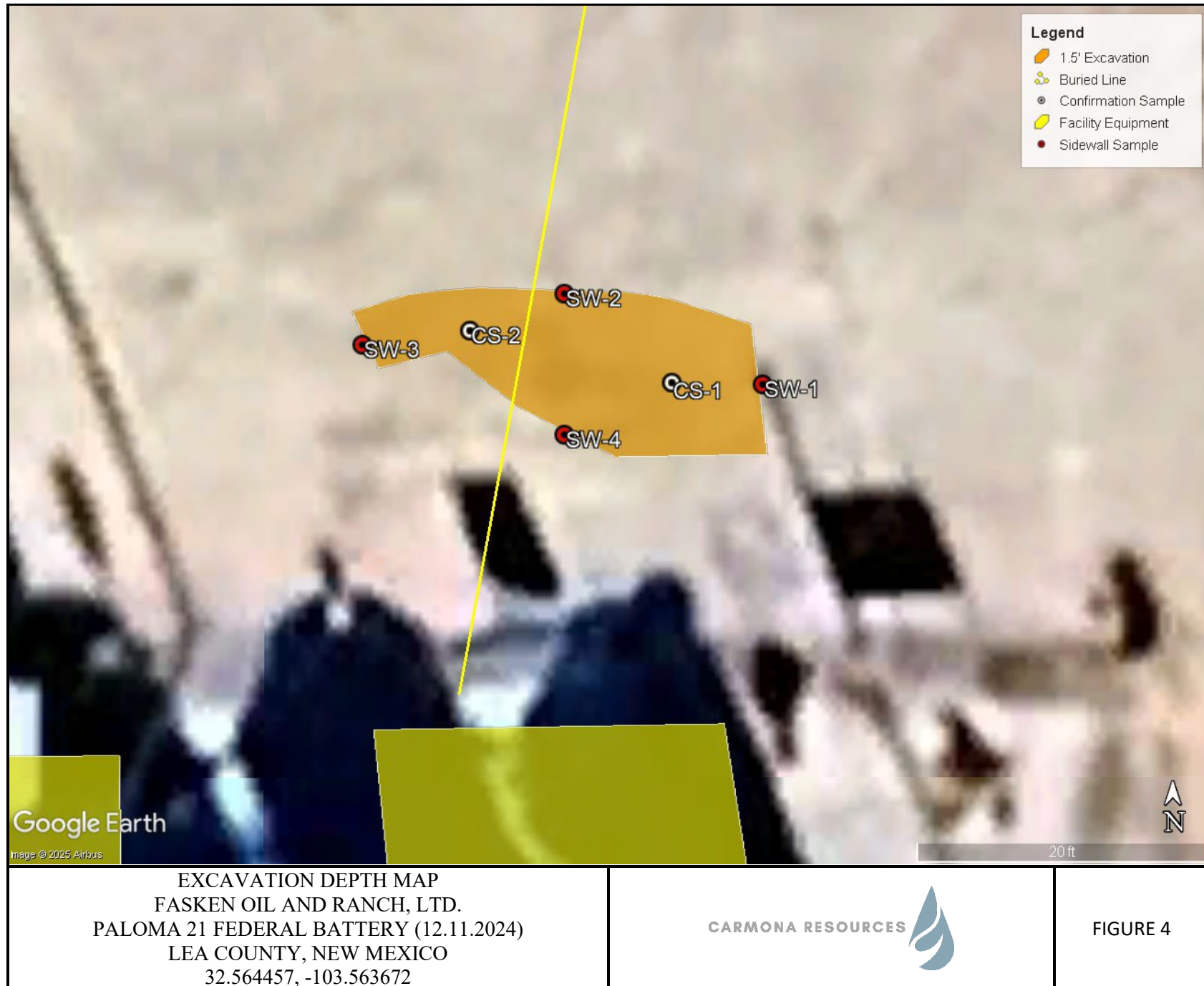
TOPOGRAPHIC MAP
 FASKEN OIL AND RANCH, LTD.
 PALOMA 21 FEDERAL BATTERY (12.11.2024)
 LEA COUNTY, NEW MEXICO
 32.564457, -103.563672

CARMONA RESOURCES



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
Fasken Oil And Ranch
Paloma 21 Federal Battery (12.11.24)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	12/19/2024	0-1'	<49.8	1,180	276	1,460	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	245
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	277
	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	284
T-2	12/19/2024	0-1'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	0.0418	<0.00404	0.0418	9,080
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	3,400
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	300
T-3	12/19/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,490
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,900
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	3,260
	"	3'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	5,170
	"	4'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	9,190
	"	5'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,710
	"	6'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	2,620
	"	7'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,330
	"	8'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	154
H-1	12/19/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	162
H-2	12/19/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	79.6
H-3	12/19/2024	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	33.7
H-4	12/19/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	106
H-5	12/19/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	82.6
Regulatory Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(T) Trench Sample

(H) Horizontal Point

 Removed

Table 2
Fasken Oil And Ranch
Paloma 21 Federal Battery (12.11.24)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	2/3/2025	1.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	33.0
CS-2	2/3/2025	1.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	32.8
SW-1	2/3/2025	1.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<10.0
SW-2	2/3/2025	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<9.94
SW-3	2/3/2025	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.1
SW-4	2/3/2025	1.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<10.0
Lazy Ace Land Farm & Pit	2/5/2025	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	27.6
Regulatory Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 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

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 1

Facility: Paloma 21 Federal Battery
(12.11.2024)

County: Lea County, New Mexico

Description:

View West, area of CS-1 through CS-2.



Photograph No. 2

Facility: Paloma 21 Federal Battery
(12.11.2024)

County: Lea County, New Mexico

Description:

View Southwest, area of CS-1 through CS-2.



Photograph No. 3

Facility: Paloma 21 Federal Battery
(12.11.2024)

County: Lea County, New Mexico

Description:

View East, area of CS-1 through CS-2.



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 4

Facility: Paloma 21 Federal Battery
(12.11.2024)

County: Lea County, New Mexico

Description:

View Northeast, area of CS-1 through CS-2.



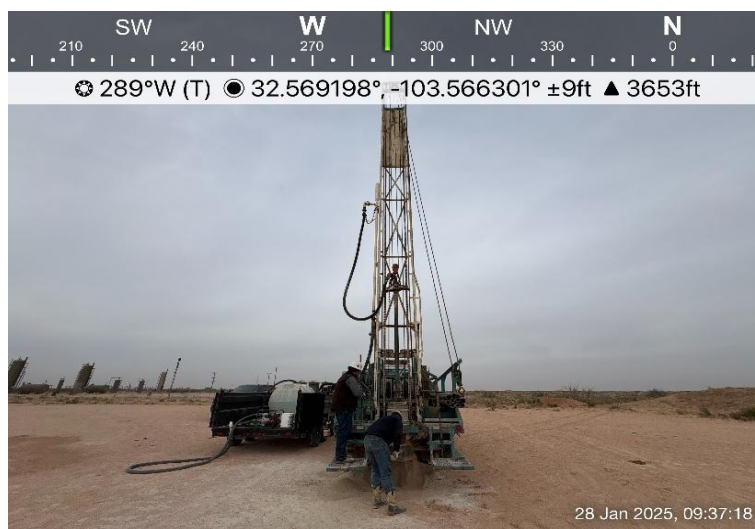
Photograph No. 5

Facility: Paloma 21 Federal Battery
(12.11.2024)

County: Lea County, New Mexico

Description:

View West, drilling of Groundwater Determination Bore.



Photograph No. 6

Facility: Paloma 21 Federal Battery
(12.11.2024)

County: Lea County, New Mexico

Description:

View of cuttings from drilling the Groundwater Determination Bore.



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

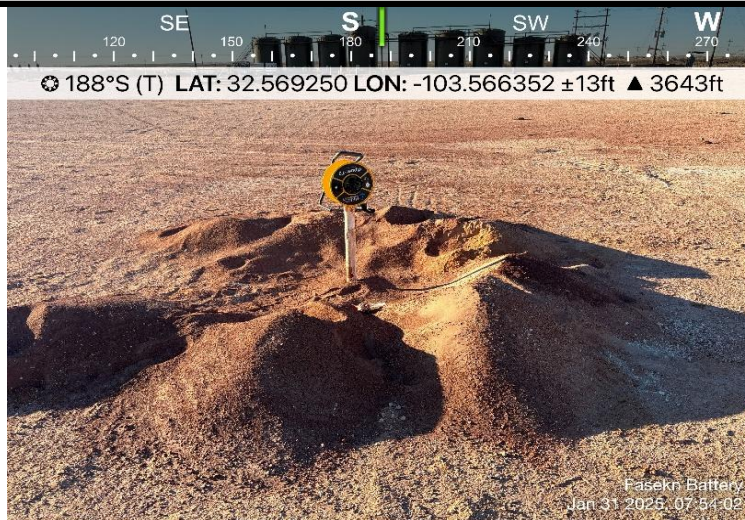
Photograph No. 7

Facility: Paloma 21 Federal Battery
(12.11.2024)

County: Lea County, New Mexico

Description:

View South, Groundwater Determination Bore with water level meter.



Photograph No. 8

Facility: Paloma 21 Federal Battery
(12.11.2024)

County: Lea County, New Mexico

Description:

View South, area of the backfilled excavation and area has been watered and compacted. To match the surrounding area.



APPENDIX C

CARMONA RESOURCES



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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 411409

QUESTIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 411409
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Paloma 21 Federal Battery
Date Release Discovered	12/11/2024
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 Other (Specify) Produced Water Released: 75 BBL Recovered: 30 BBL Lost: 45 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	bad mechanical seal on water transfer pump

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 411409

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 411409
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

ACKNOWLEDGMENTS

Action 411409

ACKNOWLEDGMENTS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 411409
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

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

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

CONDITIONS

Action 411409

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 411409
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
along	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/12/2024

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: Paloma 21 Fed Battery

Date of Spill: 11-Dec-2024

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations						
Total Surface Area		width	length	wet soil			Standing Liquid Area		width	length	liquid depth		
				depth	oil (%)	oil (%)					liquid depth	oil (%)	
Rectangle Area #1	76 ft		44 ft	X	3.00 in	0%	Rectangle Area #1	76 ft	X	44 ft	X	1 in	0%
Rectangle Area #2	80 ft	X	10 0	X	2.00 in	0%	Rectangle Area #2	80 ft	X	10 ft	X	1 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0.00 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 800 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.08 gal per gal

Use the following when the spill wets the grains of the soil.

* Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.

* Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.

* Clay loam = 0.16 gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* Clay loam = 0.20 gal. liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.

* Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume: 4,144 sq. ft.	969 cu. ft.	cu. ft.	Total Free Liquid Volume: 4,144 sq. ft.	345 cu. ft.	cu. ft.
Estimated Volumes Spilled			Estimated Production Volumes Lost		
Liquid in Soil:	H2O 13.8 BBL	OIL 0.0 BBL	Estimated Production Spilled:	H2O 75.3 BBL	OIL 0.0 BBL
Free Liquid:	61.5 BBL	0.0 BBL			
Totals:	75.3 BBL	0.0 BBL			
Estimated Surface Damage			Estimated Surface Damage		
Total Liquid Spill Liquid:	75.3 BBL	0.00 BBL	Surface Area:	4,144 sq. ft.	
			Surface Area:	.0951 acre	
Recovered Volumes			Estimated Weights, and Volumes		
Estimated oil recovered:	BBL	check - okay	Saturated Soil =	108,565 lbs	969 cu. ft.
Estimated water recovered:	BBL	check - okay	Total Liquid =	75 BBL	3,163 gallon
					36 cu. yds.
					26,317 lbs

Air Emission from flowline leaks:

Volume of oil spill: - BBL
 Separator gas calculated: - MCF
 Separator gas released: - MCF
 Gas released from oil: - lb
 H2S released: - lb
 Total HC gas released: - lb
 Total HC gas released: - MCF

Air Emission of Reporting Requirements:

New Mexico
 HC gas release reportable? NO
 H2S release reportable? NO
 Texas
 NO
 NO

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 411605

QUESTIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 411605
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434753966
Incident Name	NAPP2434753966 PALOMA 21 FEDERAL BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Paloma 21 Federal Battery
Date Release Discovered	12/11/2024
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 Other (Specify) Produced Water Released: 75 BBL Recovered: 30 BBL Lost: 45 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	bad mechanical seal on water transfer pump

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QUESTIONS, Page 2

Action 411605

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 411605
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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: Addison Long Email: addisonl@forl.com Date: 12/13/2024
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------

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

QUESTIONS, Page 3

Action 411605

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 411605
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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

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

CONDITIONS

Action 411605

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 411605
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	12/13/2024

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 427048

QUESTIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 427048
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434753966
Incident Name	NAPP2434753966 PALOMA 21 FEDERAL BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Paloma 21 Federal Battery
Date Release Discovered	12/11/2024
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	422
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/03/2025
Time sampling will commence	10:00 AM
 Warning: Notification can not be less than two business days prior to conducting final sampling. 	
Please provide any information necessary for observers to contact samplers	Conner Moehring, 432-813-6823
Please provide any information necessary for navigation to sampling site	32.564596, -103.563557

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 427048

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 427048
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
along	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.	1/31/2025

APPENDIX D

CARMONA RESOURCES



Groundwater Determination Bore

Fasken Oil and Ranch, Ltd.

Legend

- 0.36 Miles
- Groundwater Determination Bore
- Paloma 21 Federal Battery



Groundwater Determination Bore

Paloma 21 Federal Battery





Project Name :	Paloma 21 Federal Battery	Date :	Tuesday, January 28, 2025
Project No. :	2608	Sampler :	Conner Moehring
Location :	Lea County, New Mexico	Driller :	H&R Enterprises, LLC
Coordinates :	32.569198, -103.566301	Method :	Air Rotary
Elevation :	3650 feet		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Tan, moderately cemented, subangular, small to medium gravel with 65% fine, silty soft, loose sand. Dry, no odor, no organics (GM).		50		(50') - Pale red, moderately cemented, subrounded, small gravel with 98% fine, silty soft, loose sand. Dry, no odor, no organics (SM).	
5		(5') - Light brown, medium dense, well graded, silty soft sand. Dry, no odor, no organics (SM).		55		(55') - Pale red, moderately cemented, subrounded, small sandstone nodules with 98% fine, silty soft, loose sand. Dry, no odor, no organics (SM).	
10		(10') - Pinkish tan, weakly cemented, subrounded, small sandstone nodules with 80% fine, silty soft, loose sand. Dry, no odor, no organics (SP).		60		(60') - Pale red, moderately cemented, subrounded, small sandstone nodules with 98% fine, silty soft, loose sand. Dry, no odor, no organics (SM).	
15		(15') - Tannish white, moderately cemented, subangular, small to medium gravel with 60% fine, silty soft, loose sand. Dry, no odor, no organics (SP).		65		(65') - Pinkish tan, medium stiff, subangular, small claystone nodules with 50% fine, silty soft, very loose sand. Dry, no odor, no organics (SC).	
20		(20') - Tannish white, moderately cemented, subangular, small to medium gravel with 55% fine, silty soft, loose sand. Dry, no odor, no organics (SP).		70		(70') - Reddish brown, medium stiff, subrounded, small claystone nodules with 15% coarse, silty soft, loose sand. Dry, no odor, no organics (SC).	
25		(25') - Tannish white, moderately cemented, subangular, small sandstone nodules with 65% fine, silty soft, loose sand. Dry, no odor, no organics (SP).		75		(75') - Reddish brown, stiff, subangular, small to medium clay nodules with 55% coarse, clayey soft, medium dense sand. Dry, no odor, no organics (SC).	
30		(30') - Pinkish tan, very loose, well graded, silty soft sand. Dry, no odor, no organics (SW).		80		(80') - Reddish brown, stiff, subangular, small to medium clay nodules with 60% fine, clayey soft, loose silty clay. Dry, no odor, no organics (CL).	
35		(35') - Pinkish tan, very loose, well graded, silty soft sand. Dry, no odor, no organics (SW).		85		(85') - Reddish brown, medium stiff, subrounded, small to medium clay nodules with 65% fine, clayey soft, loose silty clay. Dry, no odor, no organics (CL).	
40		(40') - Pale red, weakly cemented, subrounded, small to medium sand nodules with 80% coarse, loose, silty soft sand. Dry, no odor, no organics (SM).		90		(90') - Reddish brown, medium stiff, subrounded, small clay nodules with 55% fine, clayey soft, loose silty clay. Dry, no odor, no organics (CL).	
45		(45') - Pale red, weakly cemented, subrounded, small sand nodules with 85% coarse, loose, silty soft sand. Dry, no odor, no organics (SM).		95		(95') - Reddish brown, medium stiff, subrounded, small clay nodules with 90% fine, clayey soft, loose silty clay. Dry, no odor, no organics (ML).	
50				105		(105') - Reddish brown, medium stiff, subrounded, small clay nodules with 80% fine, clayey soft, loose silty clay. Dry, no odor, no organics (ML).	

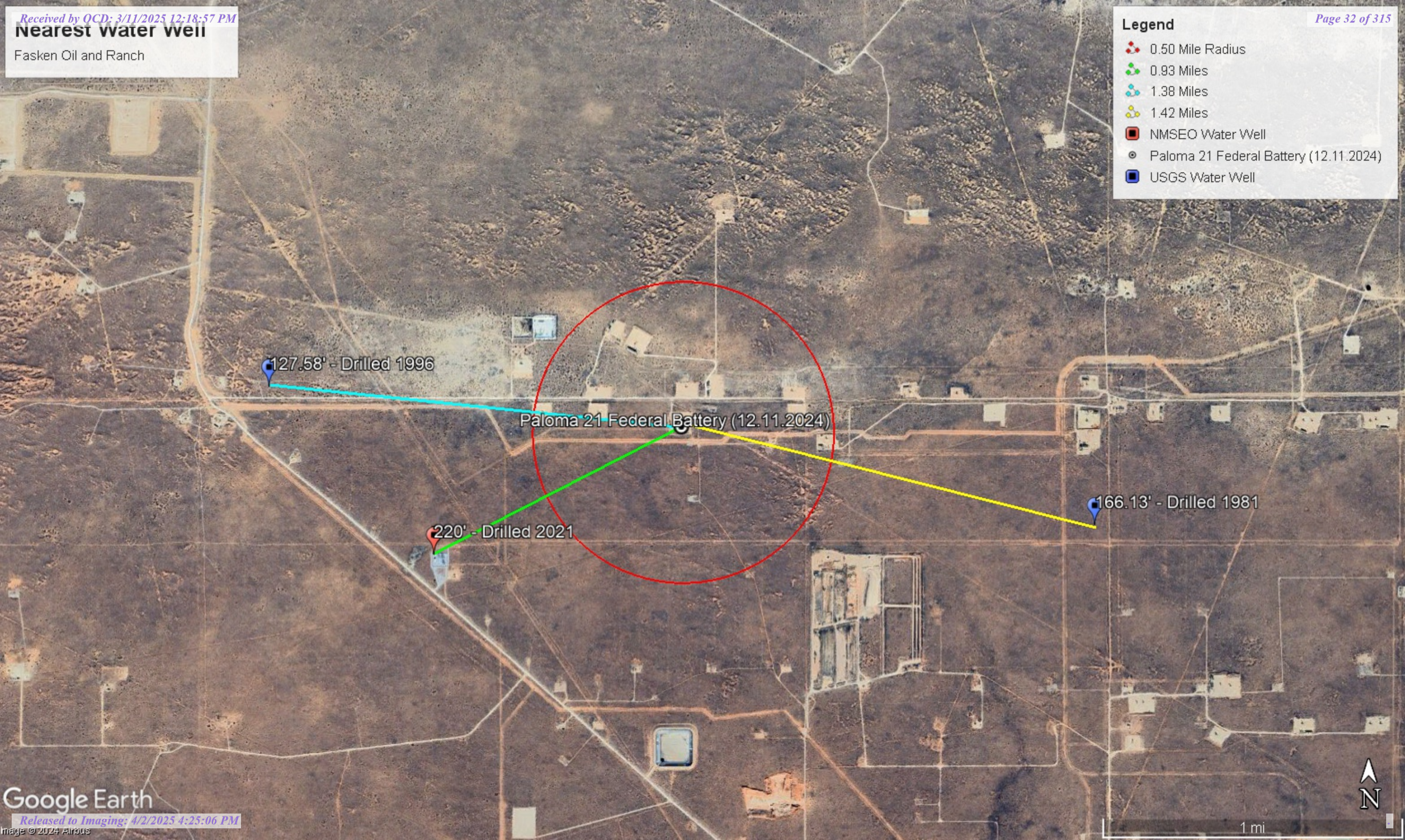
Comments : (01/31/25) Boring terminated at 105' bgs at 10:00 A.M. Mountain Time with no presence of groundwater or moisture.

Nearest water well

Fasken Oil and Ranch

Legend

- 0.50 Mile Radius
- 0.93 Miles
- 1.38 Miles
- 1.42 Miles
- NMSEO Water Well
- Paloma 21 Federal Battery (12.11.2024)
- USGS Water Well



Low Karst

Fasken Oil and Ranch

Legend

- Low
- Paloma 21 Federal Battery (12.11.2024)

Paloma 21 Federal Battery (12.11.2024)





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-4		WELL TAG ID NO.		OSE FILE NO(S). CP 1867 POD 4		
	WELL OWNER NAME(S) XCEL Energy				PHONE (OPTIONAL) 866-457-6291		
	WELL OWNER MAILING ADDRESS 7801 I-40 East				CITY STATE ZIP Amorillo TX 79118		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32 33 30.91	MINUTES 34	SECONDS 40.34	N W * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Lynch Substation 359 Sken Road Hobbs, NM 88240							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1755		NAME OF LICENSED DRILLER John D. Norris		NAME OF WELL DRILLING COMPANY Hungry Horse, LLC		
	DRILLING STARTED 7 Apr 21		DRILLING ENDED 9 Apr 21		DEPTH OF COMPLETED WELL (FT) 220'		
	BORE HOLE DEPTH (FT) 220'		DEPTH WATER FIRST ENCOUNTERED (FT) N/A		STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
	NO CASING						
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					
	6	20'	6"	Bentonite Chips	6.75 cf	TOP	
	20'	220	6"	Metallurgical Coke Breeze	19 cf	TOP	

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. CP-1867	POD NO. 4	TRN NO. 689366
LOCATION 214 T20S R34E Sec 20	WELL TAG ID NO. NA	PAGE 1 OF 2

[illegible]

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	CP-1867	POD NO.	4
LOCATION		TRN NO.	689366
214 T205 R34E Sec-76		WELL TAG ID NO.	1/A
		PAGE 2 OF 2	

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 689366
File Nbr: CP 01867
Well File Nbr: CP 01867 POD4

May. 13, 2021

VERNON K BLACK
HUNGRY HORSE LLC
PO BOX 1058
HOBBS, NM 88241

Greetings:

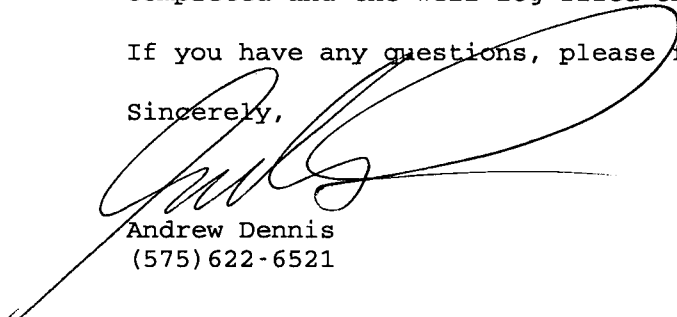
The above numbered permit was issued in your name on 03/08/2021.

The Well Record was received in this office on 05/13/2021, stating that it had been completed on 04/09/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/08/2022.

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

Sincerely,


Andrew Dennis
(575) 622-6521

drywell

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement
						Groundwater	New Mexico	GO

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Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =
• 323345103351101

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

USGS 323345103351101 20S.34E.17.33442

Lea County, New Mexico
Latitude 32°34'00", Longitude 103°35'14" NAD27
Land-surface elevation 3,639.00 feet above NGVD29
The depth of the well is 160 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-11-16			D 62610		3508.78	NGVD29	1	Z			A
1965-11-16			D 62611		3510.34	NAVD88	1	Z			A
1965-11-16			D 72019	130.22			1	Z			A
1968-03-19			D 62610		3510.30	NGVD29	1	Z			A
1968-03-19			D 62611		3511.86	NAVD88	1	Z			A
1968-03-19			D 72019	128.70			1	Z			A
1971-02-03			D 62610		3495.28	NGVD29	P	Z			A
1971-02-03			D 62611		3496.84	NAVD88	P	Z			A
1971-02-03			D 72019	143.72			P	Z			A
1972-10-02			D 62610		3508.62	NGVD29	P	Z			A
1972-10-02			D 62611		3510.18	NAVD88	P	Z			A
1972-10-02			D 72019	130.38			P	Z			A
1976-01-28			D 62610		3506.83	NGVD29	1	Z			A
1976-01-28			D 62611		3508.39	NAVD88	1	Z			A
1976-01-28			D 72019	132.17			1	Z			A
1981-02-19			D 62610		3508.61	NGVD29	1	Z			A
1981-02-19			D 62611		3510.17	NAVD88	1	Z			A
1981-02-19			D 72019	130.39			1	Z			A
1986-04-01			D 62610		3508.26	NGVD29	1	Z			A
1986-04-01			D 62611		3509.82	NAVD88	1	Z			A
1986-04-01			D 72019	130.74			1	Z			A
1996-01-26			D 62610		3511.42	NGVD29	1	S			A
1996-01-26			D 62611		3512.98	NAVD88	1	S			A
1996-01-26			D 72019	127.58			1	S			A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Metho meas
Parameter code			62611	Groundwater level above NAVD 1988, feet				
Parameter code			72019	Depth to water level, feet below land surface				
Referenced vertical datum			NAVD88	North American Vertical Datum of 1988				
Referenced vertical datum			NGVD29	National Geodetic Vertical Datum of 1929				
Status			1	Static				
Status			P	Pumping				
Method of measurement			S	Steel-tape measurement.				
Method of measurement			Z	Other.				
Measuring agency				Not determined				
Source of measurement				Not determined				
Water-level approval status			A	Approved for publication -- Processing and review completed.				

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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2024-12-17 11:18:56 EST
0.42 0.32 nadww02



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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 323336103322501

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

USGS 323336103322501 20S.34E.22.222333

Lea County, New Mexico
Latitude 32°33'36", Longitude 103°32'25" NAD27
Land-surface elevation 3,663 feet above NAVD88
The depth of the well is 250 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1965-11-17			D 62610		3483.69	NGVD29	P	Z			A
1965-11-17			D 62611		3485.25	NAVD88	P	Z			A
1965-11-17			D 72019	177.75			P	Z			A
1966-03-02			D 62610		3491.87	NGVD29	P	Z			A
1966-03-02			D 62611		3493.43	NAVD88	P	Z			A
1966-03-02			D 72019	169.57			P	Z			A
1968-03-21			D 62610		3494.74	NGVD29	1	Z			A
1968-03-21			D 62611		3496.30	NAVD88	1	Z			A
1968-03-21			D 72019	166.70			1	Z			A
1971-02-03			D 62610		3446.46	NGVD29	P	Z			A
1971-02-03			D 62611		3448.02	NAVD88	P	Z			A
1971-02-03			D 72019	214.98			P	Z			A
1972-10-02			D 62610		3464.95	NGVD29	P	Z			A
1972-10-02			D 62611		3466.51	NAVD88	P	Z			A
1972-10-02			D 72019	196.49			P	Z			A
1981-02-26			D 62610		3495.31	NGVD29	P	Z			A
1981-02-26			D 62611		3496.87	NAVD88	P	Z			A
1981-02-26			D 72019	166.13			P	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet

Section	Code	Description
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels
URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=323336103322501&agency_cd=USGS&format=html)
Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2024-12-17 11:22:41 EST
0.39 0.27 nadww02

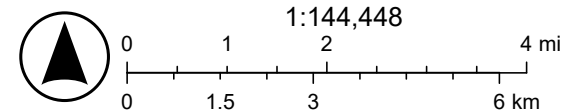


Paloma 21 Federal Battery (12.11.2024)



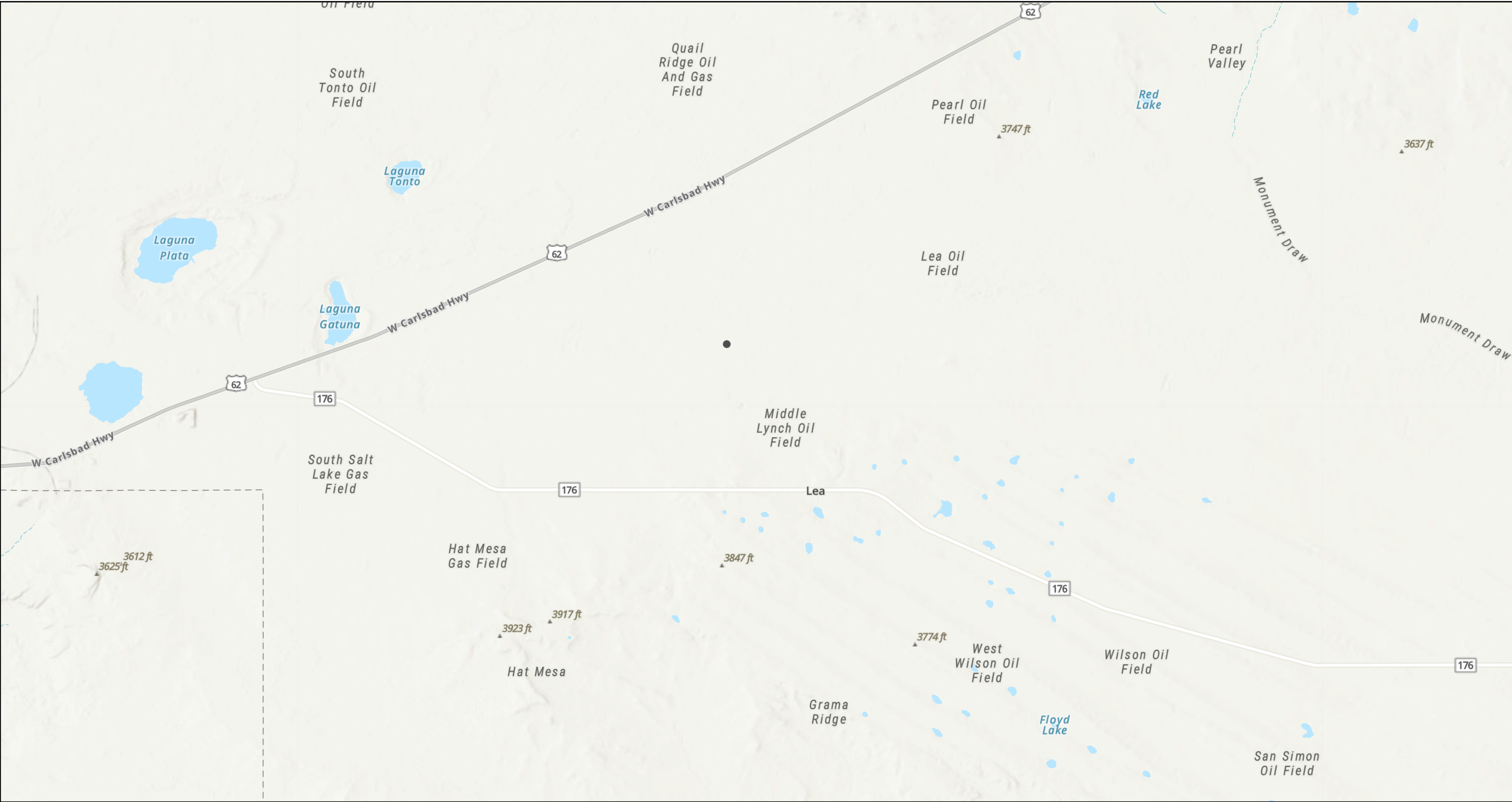
12/17/2024

World Hillshade



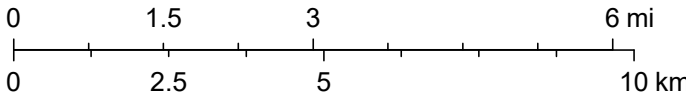
Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS,

Paloma 21 Federal Battery (12.11.2024)



12/17/2024, 8:31:17 AM

1:144,448



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

APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/2/2025 4:00:51 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52601-1

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
1/2/2025 4:00:51 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52601-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1

Job ID: 880-52601-1

Eurofins Midland

Job Narrative 880-52601-1

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 12/23/2024 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-98971 and analytical batch 880-99258 was outside control limits. Sample non-homogeneity is suspected.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-98962/2-A) and (LCSD 880-98962/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-98962 and analytical batch 880-99128 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was 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 880-98896 and analytical batch 880-98925 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

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

Lab Sample ID: 880-52601-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		12/27/24 14:35	01/02/25 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:35	01/02/25 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:35	01/02/25 12:00	1
m-Xylene & p-Xylene	<0.00399	U F2	0.00399		mg/Kg		12/27/24 14:35	01/02/25 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:35	01/02/25 12:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 14:35	01/02/25 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	12/27/24 14:35	01/02/25 12:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/27/24 14:35	01/02/25 12:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/02/25 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1460		49.8		mg/Kg			12/31/24 23:54	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		12/27/24 13:55	12/31/24 23:54	1
Diesel Range Organics (Over C10-C28)	1180		49.8		mg/Kg		12/27/24 13:55	12/31/24 23:54	1
Oil Range Organics (Over C28-C36)	276		49.8		mg/Kg		12/27/24 13:55	12/31/24 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	12/27/24 13:55	12/31/24 23:54	1
o-Terphenyl	110		70 - 130	12/27/24 13:55	12/31/24 23:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		10.1		mg/Kg			12/27/24 11:34	1

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

Lab Sample ID: 880-52601-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 14:35	01/02/25 12:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 14:35	01/02/25 12:21	1
Ethylbenzene	0.0418		0.00202		mg/Kg		12/27/24 14:35	01/02/25 12:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 14:35	01/02/25 12:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 14:35	01/02/25 12:21	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 14:35	01/02/25 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/27/24 14:35	01/02/25 12:21	1
1,4-Difluorobenzene (Surr)	79		70 - 130	12/27/24 14:35	01/02/25 12:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

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

Lab Sample ID: 880-52601-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0418		0.00404		mg/Kg			01/02/25 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/01/25 00:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/27/24 13:55	01/01/25 00:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/27/24 13:55	01/01/25 00:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 13:55	01/01/25 00:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				12/27/24 13:55	01/01/25 00:15	1
o-Terphenyl	102		70 - 130				12/27/24 13:55	01/01/25 00:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9080		99.8		mg/Kg			12/27/24 11:40	10

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

Lab Sample ID: 880-52601-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/26/24 08:39	12/26/24 19:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:39	12/26/24 19:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:39	12/26/24 19:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/26/24 08:39	12/26/24 19:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/26/24 08:39	12/26/24 19:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/26/24 08:39	12/26/24 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				12/26/24 08:39	12/26/24 19:38	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/26/24 08:39	12/26/24 19:38	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			12/26/24 19:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/01/25 00:36	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		12/27/24 13:55	01/01/25 00:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	01/01/25 00:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

Client Sample ID: T-3 (0-1')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52601-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	01/01/25 00:36	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	90		70 - 130				12/27/24 13:55	01/01/25 00:36	1	
o-Terphenyl	106		70 - 130				12/27/24 13:55	01/01/25 00:36	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3490		49.8		mg/Kg			12/30/24 16:56	5	

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-52601-1	T-1 (0-1')	108	90				
880-52601-1 MS	T-1 (0-1')	104	110				
880-52601-1 MSD	T-1 (0-1')	91	99				
880-52601-2	T-2 (0-1')	86	79				
880-52601-3	T-3 (0-1')	107	104				
890-7514-A-1-A MS	Matrix Spike	101	99				
890-7514-A-1-B MSD	Matrix Spike Duplicate	102	103				
LCS 880-98773/1-A	Lab Control Sample	99	102				
LCS 880-98971/1-A	Lab Control Sample	100	100				
LCSD 880-98773/2-A	Lab Control Sample Dup	101	97				
LCSD 880-98971/2-A	Lab Control Sample Dup	113	99				
MB 880-98773/5-A	Method Blank	104	100				
MB 880-98971/5-A	Method Blank	96	93				
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	OTPH1				
		(70-130)	(70-130)				
880-52601-1	T-1 (0-1')	103	110				
880-52601-2	T-2 (0-1')	83	102				
880-52601-3	T-3 (0-1')	90	106				
890-7507-A-2-D MS	Matrix Spike	89	94				
890-7507-A-2-E MSD	Matrix Spike Duplicate	85	90				
LCS 880-98962/2-A	Lab Control Sample	136 S1+	148 S1+				
LCSD 880-98962/3-A	Lab Control Sample Dup	149 S1+	165 S1+				
MB 880-98962/1-A	Method Blank	95	110				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98773/5-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 08:39	12/26/24 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/26/24 08:39	12/26/24 12:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/26/24 08:39	12/26/24 12:17	1

Lab Sample ID: LCS 880-98773/1-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.09985		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2006		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1012		mg/Kg		101	70 - 130

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

Lab Sample ID: LCSD 880-98773/2-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	0	35
Toluene	0.100	0.09964		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.09999		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	0	35
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-7514-A-1-A MS

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1098		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0996	0.1042		mg/Kg		105	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

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

Lab Sample ID: 890-7514-A-1-A MS

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1049		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2102		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1057		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7514-A-1-B MSD

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1132		mg/Kg		112	70 - 130	3	35
Toluene	<0.00199	U	0.101	0.1071		mg/Kg		106	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.1076		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2164		mg/Kg		107	70 - 130	3	35
o-Xylene	<0.00199	U	0.101	0.1088		mg/Kg		108	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-98971/5-A

Matrix: Solid

Analysis Batch: 99258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:35	01/02/25 11:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:35	01/02/25 11:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:35	01/02/25 11:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 14:35	01/02/25 11:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:35	01/02/25 11:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 14:35	01/02/25 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/27/24 14:35	01/02/25 11:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/27/24 14:35	01/02/25 11:38	1

Lab Sample ID: LCS 880-98971/1-A

Matrix: Solid

Analysis Batch: 99258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09628		mg/Kg		96	70 - 130
Toluene	0.100	0.09228		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08776		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1700		mg/Kg		85	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

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

Lab Sample ID: LCS 880-98971/1-A

Matrix: Solid

Analysis Batch: 99258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09339		mg/Kg		93	70 - 130

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

Lab Sample ID: LCSD 880-98971/2-A

Matrix: Solid

Analysis Batch: 99258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98971

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1108		mg/Kg		111	70 - 130	14	35
Toluene	0.100	0.1158		mg/Kg		116	70 - 130	23	35
Ethylbenzene	0.100	0.1127		mg/Kg		113	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.2180		mg/Kg		109	70 - 130	25	35
o-Xylene	0.100	0.1188		mg/Kg		119	70 - 130	24	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-52601-1 MS

Matrix: Solid

Analysis Batch: 99258

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

Prep Type: Total/NA

Prep Batch: 98971

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F2 F1	0.0996	0.1153		mg/Kg		116	70 - 130
Toluene	<0.00200	U	0.0996	0.09901		mg/Kg		99	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.1103		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	<0.00399	U F2	0.199	0.2499		mg/Kg		125	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08876		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-52601-1 MSD

Matrix: Solid

Analysis Batch: 99258

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

Prep Type: Total/NA

Prep Batch: 98971

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.101	0.1072		mg/Kg		106	70 - 130	7	35
Toluene	<0.00200	U	0.101	0.09849		mg/Kg		98	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.101	0.08720		mg/Kg		87	70 - 130	23	35
m-Xylene & p-Xylene	<0.00399	U F2	0.202	0.1604	F2	mg/Kg		80	70 - 130	44	35
o-Xylene	<0.00200	U	0.101	0.08525		mg/Kg		85	70 - 130	4	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

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

Lab Sample ID: 880-52601-1 MSD

Matrix: Solid

Analysis Batch: 99258

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

Prep Type: Total/NA

Prep Batch: 98971

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-98962/1-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98962

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	95		70 - 130				12/27/24 13:55	12/31/24 19:49	1	
o-Terphenyl	110		70 - 130				12/27/24 13:55	12/31/24 19:49	1	

Lab Sample ID: LCS 880-98962/2-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	877.4		mg/Kg		88		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	953.8		mg/Kg		95		70 - 130		
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		136	S1+	70 - 130						
o-Terphenyl		148	S1+	70 - 130						

Lab Sample ID: LCSD 880-98962/3-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	943.1		mg/Kg		94		70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1077		mg/Kg		108		70 - 130	12	20
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		149	S1+	70 - 130						
o-Terphenyl		165	S1+	70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

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

Lab Sample ID: 890-7507-A-2-D MS

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98962

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	993	730.9		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	993	800.1		mg/Kg		81	70 - 130		

Lab Sample ID: 890-7507-A-2-E MSD

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	993	699.1	F1	mg/Kg		69	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.7	U	993	769.8		mg/Kg		78	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	90		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98896/1-A

Matrix: Solid

Analysis Batch: 98925

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			12/27/24 10:47	1

Lab Sample ID: LCS 880-98896/2-A

Matrix: Solid

Analysis Batch: 98925

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-98896/3-A

Matrix: Solid

Analysis Batch: 98925

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	255.7		mg/Kg		102	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-52659-A-1-B MS

Matrix: Solid

Analysis Batch: 98925

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	358	F1	251	549.6	F1	mg/Kg		76	90 - 110

Lab Sample ID: 880-52659-A-1-C MSD

Matrix: Solid

Analysis Batch: 98925

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	358	F1	251	549.2	F1	mg/Kg		76	90 - 110	0	20

Lab Sample ID: MB 880-98882/1-A

Matrix: Solid

Analysis Batch: 99064

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			12/30/24 16:14	1

Lab Sample ID: LCS 880-98882/2-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.9		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-98882/3-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.1		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-52600-A-2-C MS

Matrix: Solid

Analysis Batch: 99064

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	79.6		248	321.3		mg/Kg		98	90 - 110

Lab Sample ID: 880-52600-A-2-D MSD

Matrix: Solid

Analysis Batch: 99064

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	79.6		248	322.3		mg/Kg		98	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

GC VOA

Prep Batch: 98773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-3	T-3 (0-1')	Total/NA	Solid	5035	
MB 880-98773/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98773/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98773/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7514-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7514-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-3	T-3 (0-1')	Total/NA	Solid	8021B	98773
MB 880-98773/5-A	Method Blank	Total/NA	Solid	8021B	98773
LCS 880-98773/1-A	Lab Control Sample	Total/NA	Solid	8021B	98773
LCSD 880-98773/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98773
890-7514-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	98773
890-7514-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98773

Analysis Batch: 98937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-52601-2	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-52601-3	T-3 (0-1')	Total/NA	Solid	Total BTEX	

Prep Batch: 98971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-1	T-1 (0-1')	Total/NA	Solid	5035	
880-52601-2	T-2 (0-1')	Total/NA	Solid	5035	
MB 880-98971/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52601-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-52601-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 99258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-1	T-1 (0-1')	Total/NA	Solid	8021B	98971
880-52601-2	T-2 (0-1')	Total/NA	Solid	8021B	98971
MB 880-98971/5-A	Method Blank	Total/NA	Solid	8021B	98971
LCS 880-98971/1-A	Lab Control Sample	Total/NA	Solid	8021B	98971
LCSD 880-98971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98971
880-52601-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	98971
880-52601-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	98971

GC Semi VOA

Prep Batch: 98962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-52601-2	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-52601-3	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

GC Semi VOA (Continued)

Prep Batch: 98962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7507-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7507-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-1	T-1 (0-1')	Total/NA	Solid	8015B NM	98962
880-52601-2	T-2 (0-1')	Total/NA	Solid	8015B NM	98962
880-52601-3	T-3 (0-1')	Total/NA	Solid	8015B NM	98962
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015B NM	98962
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98962
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98962
890-7507-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	98962
890-7507-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98962

Analysis Batch: 99342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-52601-2	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-52601-3	T-3 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-3	T-3 (0-1')	Soluble	Solid	DI Leach	
MB 880-98882/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52600-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52600-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 98896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-52601-2	T-2 (0-1')	Soluble	Solid	DI Leach	
MB 880-98896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52659-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52659-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-1	T-1 (0-1')	Soluble	Solid	300.0	98896
880-52601-2	T-2 (0-1')	Soluble	Solid	300.0	98896
MB 880-98896/1-A	Method Blank	Soluble	Solid	300.0	98896
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	300.0	98896
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98896
880-52659-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	98896
880-52659-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98896

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

HPLC/IC

Analysis Batch: 99064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52601-3	T-3 (0-1')	Soluble	Solid	300.0	98882
MB 880-98882/1-A	Method Blank	Soluble	Solid	300.0	98882
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	300.0	98882
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98882
880-52600-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	98882
880-52600-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98882

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

Client Sample ID: T-1 (0-1')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52601-1
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	98971	12/27/24 14:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99258	01/02/25 12:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98937	01/02/25 12:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			99342	12/31/24 23:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 23:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 11:34	CH	EET MID

Client Sample ID: T-2 (0-1')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52601-2
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	98971	12/27/24 14:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99258	01/02/25 12:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98937	01/02/25 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			99342	01/01/25 00:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 00:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		10			98925	12/27/24 11:40	CH	EET MID

Client Sample ID: T-3 (0-1')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52601-3
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			5.02 g	5 mL	98773	12/26/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98775	12/26/24 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98937	12/26/24 19:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			99342	01/01/25 00:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 00:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98882	12/26/24 16:16	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99064	12/30/24 16:56	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52601-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52601-1	T-1 (0-1')	Solid	12/19/24 00:00	12/23/24 12:41
880-52601-2	T-2 (0-1')	Solid	12/19/24 00:00	12/23/24 12:41
880-52601-3	T-3 (0-1')	Solid	12/19/24 00:00	12/23/24 12:41

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Project Manager:	Corrnet Moehring	Bill to: (if different)	Grant Huckabay & Addison Guekler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@for.com & addisonG@for.com

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

[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Donny [Signature]</i>	12/23/24	<i>[Signature]</i>	12/23/24 12:14



880-52601 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52601-1

SDG Number: 2608

Login Number: 52601

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/2/2025 4:01:21 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52602-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
1/2/2025 4:01:21 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52602-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

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.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1

Job ID: 880-52602-1

Eurofins Midland

Job Narrative 880-52602-1

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 12/23/2024 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-1 (1.5') (880-52602-1). 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: Surrogate recovery for the following samples were outside control limits: (LCS 880-98962/2-A) and (LCSD 880-98962/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-98962 and analytical batch 880-99128 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was 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 880-98896 and analytical batch 880-98925 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-52602-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:22	12/27/24 19:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:22	12/27/24 19:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:22	12/27/24 19:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/27/24 14:22	12/27/24 19:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:22	12/27/24 19:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/24 14:22	12/27/24 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	47	S1-	70 - 130	12/27/24 14:22	12/27/24 19:11	1
1,4-Difluorobenzene (Surr)	143	S1+	70 - 130	12/27/24 14:22	12/27/24 19:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/27/24 19:11	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			01/01/25 01:17	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		12/27/24 13:55	01/01/25 01:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:55	01/01/25 01:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:55	01/01/25 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	12/27/24 13:55	01/01/25 01:17	1
o-Terphenyl	104		70 - 130	12/27/24 13:55	01/01/25 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	277		9.90		mg/Kg			12/27/24 11:58	1

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-52602-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 14:22	12/27/24 19:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:22	12/27/24 19:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:22	12/27/24 19:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 14:22	12/27/24 19:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:22	12/27/24 19:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 14:22	12/27/24 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	12/27/24 14:22	12/27/24 19:32	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/27/24 14:22	12/27/24 19:32	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-52602-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/27/24 19:32	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			01/01/25 01:38	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		12/27/24 13:55	01/01/25 01:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:55	01/01/25 01:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:55	01/01/25 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				12/27/24 13:55	01/01/25 01:38	1
o-Terphenyl	100		70 - 130				12/27/24 13:55	01/01/25 01:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		50.0		mg/Kg			12/27/24 12:04	5

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-52602-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/26/24 08:39	12/26/24 19:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/26/24 08:39	12/26/24 19:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/26/24 08:39	12/26/24 19:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/26/24 08:39	12/26/24 19:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/26/24 08:39	12/26/24 19:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/26/24 08:39	12/26/24 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				12/26/24 08:39	12/26/24 19:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130				12/26/24 08:39	12/26/24 19:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/26/24 19:58	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			01/01/25 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 13:55	01/01/25 01:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:55	01/01/25 01:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

Client Sample ID: T-3 (1.5') Lab Sample ID: 880-52602-3
Date Collected: 12/19/24 00:00 Matrix: Solid
Date Received: 12/23/24 12:41

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		12/27/24 13:55	01/01/25 01:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/27/24 13:55	01/01/25 01:58	1
o-Terphenyl	103		70 - 130				12/27/24 13:55	01/01/25 01:58	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		49.7		mg/Kg			12/30/24 17:01	5

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

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)
880-52602-1	T-1 (1.5')	47 S1-	143 S1+
880-52602-2	T-2 (1.5')	101	103
880-52602-3	T-3 (1.5')	106	100
880-52655-A-1-D MS	Matrix Spike	100	98
880-52655-A-1-E MSD	Matrix Spike Duplicate	113	101
890-7514-A-1-A MS	Matrix Spike	101	99
890-7514-A-1-B MSD	Matrix Spike Duplicate	102	103
LCS 880-98773/1-A	Lab Control Sample	99	102
LCS 880-98920/1-A	Lab Control Sample	109	98
LCSD 880-98773/2-A	Lab Control Sample Dup	101	97
LCSD 880-98920/2-A	Lab Control Sample Dup	108	100
MB 880-98773/5-A	Method Blank	104	100
MB 880-98920/5-A	Method Blank	97	92
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)
880-52602-1	T-1 (1.5')	86	104
880-52602-2	T-2 (1.5')	84	100
880-52602-3	T-3 (1.5')	86	103
890-7507-A-2-D MS	Matrix Spike	89	94
890-7507-A-2-E MSD	Matrix Spike Duplicate	85	90
LCS 880-98962/2-A	Lab Control Sample	136 S1+	148 S1+
LCSD 880-98962/3-A	Lab Control Sample Dup	149 S1+	165 S1+
MB 880-98962/1-A	Method Blank	95	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98773/5-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 08:39	12/26/24 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/26/24 08:39	12/26/24 12:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/26/24 08:39	12/26/24 12:17	1

Lab Sample ID: LCS 880-98773/1-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.09985		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2006		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1012		mg/Kg		101	70 - 130

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

Lab Sample ID: LCSD 880-98773/2-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	0	35
Toluene	0.100	0.09964		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.09999		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	0	35
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-7514-A-1-A MS

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1098		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0996	0.1042		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

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

Lab Sample ID: 890-7514-A-1-A MS

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1049		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2102		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1057		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7514-A-1-B MSD

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1132		mg/Kg		112	70 - 130	3	35
Toluene	<0.00199	U	0.101	0.1071		mg/Kg		106	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.1076		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2164		mg/Kg		107	70 - 130	3	35
o-Xylene	<0.00199	U	0.101	0.1088		mg/Kg		108	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-98920/5-A

Matrix: Solid

Analysis Batch: 98910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:46	12/27/24 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 09:46	12/27/24 11:27	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/27/24 09:46	12/27/24 11:27	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/27/24 09:46	12/27/24 11:27	1

Lab Sample ID: LCS 880-98920/1-A

Matrix: Solid

Analysis Batch: 98910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1149		mg/Kg		115	70 - 130
Toluene	0.100	0.1135		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1090		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2097		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

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

Lab Sample ID: LCS 880-98920/1-A

Matrix: Solid

Analysis Batch: 98910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1151		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-98920/2-A

Matrix: Solid

Analysis Batch: 98910

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1261		mg/Kg		126	70 - 130	9	35
Toluene	0.100	0.1221		mg/Kg		122	70 - 130	7	35
Ethylbenzene	0.100	0.1169		mg/Kg		117	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2228		mg/Kg		111	70 - 130	6	35
o-Xylene	0.100	0.1223		mg/Kg		122	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-52655-A-1-D MS

Matrix: Solid

Analysis Batch: 98910

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1127		mg/Kg		113	70 - 130
Toluene	<0.00199	U	0.0996	0.1115		mg/Kg		112	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1079		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2093		mg/Kg		105	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1128		mg/Kg		113	70 - 130

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

Lab Sample ID: 880-52655-A-1-E MSD

Matrix: Solid

Analysis Batch: 98910

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1077		mg/Kg		107	70 - 130	5	35
Toluene	<0.00199	U	0.101	0.1108		mg/Kg		110	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1063		mg/Kg		105	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2043		mg/Kg		101	70 - 130	2	35
o-Xylene	<0.00199	U	0.101	0.1108		mg/Kg		110	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

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

Lab Sample ID: 880-52655-A-1-E MSD

Matrix: Solid

Analysis Batch: 98910

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98920

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-98962/1-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98962

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	95		70 - 130				12/27/24 13:55	12/31/24 19:49	1
o-Terphenyl	110		70 - 130				12/27/24 13:55	12/31/24 19:49	1

Lab Sample ID: LCS 880-98962/2-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	877.4		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	953.8		mg/Kg		95	70 - 130		
Surrogate	LCS LCS		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	136	S1+	70 - 130						
o-Terphenyl	148	S1+	70 - 130						

Lab Sample ID: LCSD 880-98962/3-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	943.1		mg/Kg		94	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1077		mg/Kg		108	70 - 130	12	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
1-Chlorooctane	149	S1+	70 - 130						
o-Terphenyl	165	S1+	70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

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

Lab Sample ID: 890-7507-A-2-D MS

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98962

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	993	730.9		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	993	800.1		mg/Kg		81	70 - 130		

Lab Sample ID: 890-7507-A-2-E MSD

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	993	699.1	F1	mg/Kg		69	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.7	U	993	769.8		mg/Kg		78	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	90		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98896/1-A

Matrix: Solid

Analysis Batch: 98925

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			12/27/24 10:47	1

Lab Sample ID: LCS 880-98896/2-A

Matrix: Solid

Analysis Batch: 98925

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-98896/3-A

Matrix: Solid

Analysis Batch: 98925

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	255.7		mg/Kg		102	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-52659-A-1-B MS

Matrix: Solid

Analysis Batch: 98925

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	358	F1	251	549.6	F1	mg/Kg		76	90 - 110

Lab Sample ID: 880-52659-A-1-C MSD

Matrix: Solid

Analysis Batch: 98925

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	358	F1	251	549.2	F1	mg/Kg		76	90 - 110	0	20

Lab Sample ID: MB 880-98882/1-A

Matrix: Solid

Analysis Batch: 99064

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			12/30/24 16:14	1

Lab Sample ID: LCS 880-98882/2-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.9		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-98882/3-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.1		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-52600-A-2-C MS

Matrix: Solid

Analysis Batch: 99064

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	79.6		248	321.3		mg/Kg		98	90 - 110

Lab Sample ID: 880-52600-A-2-D MSD

Matrix: Solid

Analysis Batch: 99064

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	79.6		248	322.3		mg/Kg		98	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

GC VOA

Prep Batch: 98773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-3	T-3 (1.5')	Total/NA	Solid	5035	
MB 880-98773/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98773/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98773/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7514-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7514-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-3	T-3 (1.5')	Total/NA	Solid	8021B	98773
MB 880-98773/5-A	Method Blank	Total/NA	Solid	8021B	98773
LCS 880-98773/1-A	Lab Control Sample	Total/NA	Solid	8021B	98773
LCSD 880-98773/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98773
890-7514-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	98773
890-7514-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98773

Analysis Batch: 98910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-1	T-1 (1.5')	Total/NA	Solid	8021B	98920
880-52602-2	T-2 (1.5')	Total/NA	Solid	8021B	98920
MB 880-98920/5-A	Method Blank	Total/NA	Solid	8021B	98920
LCS 880-98920/1-A	Lab Control Sample	Total/NA	Solid	8021B	98920
LCSD 880-98920/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98920
880-52655-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	98920
880-52655-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98920

Prep Batch: 98920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-1	T-1 (1.5')	Total/NA	Solid	5035	
880-52602-2	T-2 (1.5')	Total/NA	Solid	5035	
MB 880-98920/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98920/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98920/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52655-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-52655-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-1	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-52602-2	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-52602-3	T-3 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-1	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-52602-2	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-52602-3	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

GC Semi VOA (Continued)

Prep Batch: 98962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7507-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7507-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-1	T-1 (1.5')	Total/NA	Solid	8015B NM	98962
880-52602-2	T-2 (1.5')	Total/NA	Solid	8015B NM	98962
880-52602-3	T-3 (1.5')	Total/NA	Solid	8015B NM	98962
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015B NM	98962
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98962
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98962
890-7507-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	98962
890-7507-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98962

Analysis Batch: 99343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-1	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-52602-2	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-52602-3	T-3 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-3	T-3 (1.5')	Soluble	Solid	DI Leach	
MB 880-98882/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52600-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52600-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 98896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-1	T-1 (1.5')	Soluble	Solid	DI Leach	
880-52602-2	T-2 (1.5')	Soluble	Solid	DI Leach	
MB 880-98896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52659-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52659-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-1	T-1 (1.5')	Soluble	Solid	300.0	98896
880-52602-2	T-2 (1.5')	Soluble	Solid	300.0	98896
MB 880-98896/1-A	Method Blank	Soluble	Solid	300.0	98896
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	300.0	98896
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98896
880-52659-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	98896
880-52659-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98896

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

HPLC/IC

Analysis Batch: 99064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52602-3	T-3 (1.5')	Soluble	Solid	300.0	98882
MB 880-98882/1-A	Method Blank	Soluble	Solid	300.0	98882
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	300.0	98882
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98882
880-52600-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	98882
880-52600-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98882

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-52602-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98920	12/27/24 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98938	12/27/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			99343	01/01/25 01:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 01:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 11:58	CH	EET MID

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-52602-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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	98920	12/27/24 14:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98910	12/27/24 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98938	12/27/24 19:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99343	01/01/25 01:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 01:38	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		5			98925	12/27/24 12:04	CH	EET MID

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-52602-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98773	12/26/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98775	12/26/24 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98938	12/26/24 19:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			99343	01/01/25 01:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	01/01/25 01:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	98882	12/26/24 16:16	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99064	12/30/24 17:01	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52602-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52602-1	T-1 (1.5')	Solid	12/19/24 00:00	12/23/24 12:41
880-52602-2	T-2 (1.5')	Solid	12/19/24 00:00	12/23/24 12:41
880-52602-3	T-3 (1.5')	Solid	12/19/24 00:00	12/23/24 12:41

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Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabay & Addison Guekler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	Granth@lorf.com & addisonq@lorf.com

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

[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Donna Mayberry</i>	12/23/24	<i>Jeffery R. Smith</i>	12/23/24 12:12



880-52602 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52602-1

SDG Number: 2608

Login Number: 52602

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 12:46:33 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52603-1

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
1/3/2025 12:46:33 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52603-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

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.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1

Job ID: 880-52603-1

Eurofins Midland

Job Narrative 880-52603-1

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 12/23/2024 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-98785 and 880-98969 and analytical batch 880-98922 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-98922 recovered under the lower control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-2 (2') (880-52603-2) and (880-52663-A-1-D). 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 880-98965 and analytical batch 880-99298 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-98965/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98896 and analytical batch 880-98925 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

Client Sample ID: T-1 (2')

Lab Sample ID: 880-52603-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 14:31	12/28/24 08:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 14:31	12/28/24 08:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 14:31	12/28/24 08:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 14:31	12/28/24 08:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 14:31	12/28/24 08:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 14:31	12/28/24 08:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/27/24 14:31	12/28/24 08:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/27/24 14:31	12/28/24 08:21	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			12/28/24 08:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/02/25 22:46	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		12/27/24 14:13	01/02/25 22:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 22:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	12/27/24 14:13	01/02/25 22:46	1
o-Terphenyl	77		70 - 130	12/27/24 14:13	01/02/25 22:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		10.0		mg/Kg			12/27/24 12:10	1

Client Sample ID: T-2 (2')

Lab Sample ID: 880-52603-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:31	12/28/24 08:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:31	12/28/24 08:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:31	12/28/24 08:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/27/24 14:31	12/28/24 08:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/24 14:31	12/28/24 08:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/24 14:31	12/28/24 08:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	329	S1+	70 - 130	12/27/24 14:31	12/28/24 08:42	1
1,4-Difluorobenzene (Surr)	126		70 - 130	12/27/24 14:31	12/28/24 08:42	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

Client Sample ID: T-2 (2')

Lab Sample ID: 880-52603-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/28/24 08:42	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			01/02/25 23:02	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		12/27/24 14:13	01/02/25 23:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 23:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				12/27/24 14:13	01/02/25 23:02	1
o-Terphenyl	78		70 - 130				12/27/24 14:13	01/02/25 23:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300		9.98		mg/Kg			12/27/24 12:16	1

Client Sample ID: T-3 (2')

Lab Sample ID: 880-52603-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/26/24 08:39	12/26/24 20:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 20:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 20:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 08:39	12/26/24 20:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 20:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 08:39	12/26/24 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				12/26/24 08:39	12/26/24 20:19	1
1,4-Difluorobenzene (Surr)	105		70 - 130				12/26/24 08:39	12/26/24 20:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/26/24 20:19	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			01/02/25 23:17	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		12/27/24 14:13	01/02/25 23:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 23:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

Client Sample ID: T-3 (2')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52603-3
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		12/27/24 14:13	01/02/25 23:17	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	81		70 - 130				12/27/24 14:13	01/02/25 23:17	1	
o-Terphenyl	78		70 - 130				12/27/24 14:13	01/02/25 23:17	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3260		49.6		mg/Kg			12/30/24 17:07	5	

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-52603-1	T-1 (2')	113	96				
880-52603-2	T-2 (2')	329 S1+	126				
880-52603-3	T-3 (2')	107	105				
880-52663-A-1-B MS	Matrix Spike	130	98				
880-52663-A-1-C MSD	Matrix Spike Duplicate	112	103				
890-7514-A-1-A MS	Matrix Spike	101	99				
890-7514-A-1-B MSD	Matrix Spike Duplicate	102	103				
LCS 880-98773/1-A	Lab Control Sample	99	102				
LCS 880-98969/1-A	Lab Control Sample	116	89				
LCSD 880-98773/2-A	Lab Control Sample Dup	101	97				
LCSD 880-98969/2-A	Lab Control Sample Dup	108	105				
MB 880-98773/5-A	Method Blank	104	100				
MB 880-98785/5-A	Method Blank	153 S1+	83				
MB 880-98969/5-A	Method Blank	227 S1+	123				
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	OTPH1				
		(70-130)	(70-130)				
880-52595-A-1-E MS	Matrix Spike	75	75				
880-52595-A-1-F MSD	Matrix Spike Duplicate	73	75				
880-52603-1	T-1 (2')	80	77				
880-52603-2	T-2 (2')	81	78				
880-52603-3	T-3 (2')	81	78				
LCS 880-98965/2-A	Lab Control Sample	121	119				
LCSD 880-98965/3-A	Lab Control Sample Dup	132 S1+	129				
MB 880-98965/1-A	Method Blank	72	70				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98773/5-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 08:39	12/26/24 12:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 08:39	12/26/24 12:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/26/24 08:39	12/26/24 12:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/26/24 08:39	12/26/24 12:17	1

Lab Sample ID: LCS 880-98773/1-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1056		mg/Kg		106	70 - 130
Toluene	0.100	0.09985		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2006		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1012		mg/Kg		101	70 - 130

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

Lab Sample ID: LCSD 880-98773/2-A

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1052		mg/Kg		105	70 - 130	0	35
Toluene	0.100	0.09964		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.09999		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	0	35
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-7514-A-1-A MS

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1098		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0996	0.1042		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

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

Lab Sample ID: 890-7514-A-1-A MS

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1049		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2102		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1057		mg/Kg		106	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 890-7514-A-1-B MSD

Matrix: Solid

Analysis Batch: 98775

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1132		mg/Kg		112	70 - 130	3	35
Toluene	<0.00199	U	0.101	0.1071		mg/Kg		106	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.1076		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2164		mg/Kg		107	70 - 130	3	35
o-Xylene	<0.00199	U	0.101	0.1088		mg/Kg		108	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	102		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								

Lab Sample ID: MB 880-98785/5-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130				12/26/24 09:36	12/27/24 13:00	1
1,4-Difluorobenzene (Surr)	83		70 - 130				12/26/24 09:36	12/27/24 13:00	1

Lab Sample ID: MB 880-98969/5-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 14:31	12/28/24 00:36	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

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

Lab Sample ID: MB 880-98969/5-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227	S1+	70 - 130				12/27/24 14:31	12/28/24 00:36	1
1,4-Difluorobenzene (Surr)	123		70 - 130				12/27/24 14:31	12/28/24 00:36	1

Lab Sample ID: LCS 880-98969/1-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1005		mg/Kg		101	70 - 130
Toluene	0.100	0.1016		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2269		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1185		mg/Kg		119	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	116		70 - 130				
1,4-Difluorobenzene (Surr)	89		70 - 130				

Lab Sample ID: LCSD 880-98969/2-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1078		mg/Kg		108	70 - 130	7	35
Toluene	0.100	0.1031		mg/Kg		103	70 - 130	1	35
Ethylbenzene	0.100	0.09733		mg/Kg		97	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2192		mg/Kg		110	70 - 130	3	35
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: 880-52663-A-1-B MS

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09767		mg/Kg		98	70 - 130
Toluene	<0.00199	U	0.0996	0.08745		mg/Kg		88	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08207		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.00818		0.199	0.2184		mg/Kg		106	70 - 130
o-Xylene	0.00492		0.0996	0.1214		mg/Kg		117	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

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

Lab Sample ID: 880-52663-A-1-B MS

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98969

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

Lab Sample ID: 880-52663-A-1-C MSD

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98969

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-98965/1-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98965

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	72		70 - 130				12/27/24 14:13	01/02/25 20:05	1	
o-Terphenyl	70		70 - 130				12/27/24 14:13	01/02/25 20:05	1	

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130		
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	121		70 - 130						
o-Terphenyl	119		70 - 130						

Lab Sample ID: LCSD 880-98965/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1265		mg/Kg		127	70 - 130	8	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

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

Lab Sample ID: LCSD 880-98965/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130	8	20
	LCSD %Recovery	LCSD Qualifier	Limits						
Surrogate									
1-Chlorooctane	132	S1+	70 - 130						
o-Terphenyl	129		70 - 130						

Lab Sample ID: 880-52595-A-1-E MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98965

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	<50.0	U F1	996	557.0	F1	mg/Kg		56	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	615.5	F1	mg/Kg		62	70 - 130		
	MS %Recovery	MS Qualifier	Limits								
Surrogate											
1-Chlorooctane	75		70 - 130								
o-Terphenyl	75		70 - 130								

Lab Sample ID: 880-52595-A-1-F MSD

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	544.6	F1	mg/Kg		55	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	603.0	F1	mg/Kg		61	70 - 130	2	20
	MSD %Recovery	MSD Qualifier	Limits								
Surrogate											
1-Chlorooctane	73		70 - 130								
o-Terphenyl	75		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98896/1-A

Matrix: Solid

Analysis Batch: 98925

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			12/27/24 10:47	1

Lab Sample ID: LCS 880-98896/2-A

Matrix: Solid

Analysis Batch: 98925

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.9		mg/Kg		102	90 - 110		

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-98896/3-A

Matrix: Solid

Analysis Batch: 98925

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	255.7		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-52659-A-1-B MS

Matrix: Solid

Analysis Batch: 98925

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	358	F1	251	549.6	F1	mg/Kg		76	90 - 110		

Lab Sample ID: 880-52659-A-1-C MSD

Matrix: Solid

Analysis Batch: 98925

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	358	F1	251	549.2	F1	mg/Kg		76	90 - 110	0	20

Lab Sample ID: MB 880-98882/1-A

Matrix: Solid

Analysis Batch: 99064

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			12/30/24 16:14	1

Lab Sample ID: LCS 880-98882/2-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	236.9		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-98882/3-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.1		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-52600-A-2-C MS

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	79.6		248	321.3		mg/Kg		98	90 - 110		

Lab Sample ID: 880-52600-A-2-D MSD

Matrix: Solid

Analysis Batch: 99064

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	79.6		248	322.3		mg/Kg		98	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

GC VOA

Prep Batch: 98773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-3	T-3 (2')	Total/NA	Solid	5035	
MB 880-98773/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98773/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98773/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7514-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7514-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-3	T-3 (2')	Total/NA	Solid	8021B	98773
MB 880-98773/5-A	Method Blank	Total/NA	Solid	8021B	98773
LCS 880-98773/1-A	Lab Control Sample	Total/NA	Solid	8021B	98773
LCSD 880-98773/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98773
890-7514-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	98773
890-7514-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98773

Prep Batch: 98785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98785/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 98922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-1	T-1 (2')	Total/NA	Solid	8021B	98969
880-52603-2	T-2 (2')	Total/NA	Solid	8021B	98969
MB 880-98785/5-A	Method Blank	Total/NA	Solid	8021B	98785
MB 880-98969/5-A	Method Blank	Total/NA	Solid	8021B	98969
LCS 880-98969/1-A	Lab Control Sample	Total/NA	Solid	8021B	98969
LCSD 880-98969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98969
880-52663-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	98969
880-52663-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98969

Analysis Batch: 98939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-1	T-1 (2')	Total/NA	Solid	Total BTEX	
880-52603-2	T-2 (2')	Total/NA	Solid	Total BTEX	
880-52603-3	T-3 (2')	Total/NA	Solid	Total BTEX	

Prep Batch: 98969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-1	T-1 (2')	Total/NA	Solid	5035	
880-52603-2	T-2 (2')	Total/NA	Solid	5035	
MB 880-98969/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98969/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98969/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52663-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-52663-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

GC Semi VOA

Prep Batch: 98965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-1	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-52603-2	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-52603-3	T-3 (2')	Total/NA	Solid	8015NM Prep	
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-1	T-1 (2')	Total/NA	Solid	8015B NM	98965
880-52603-2	T-2 (2')	Total/NA	Solid	8015B NM	98965
880-52603-3	T-3 (2')	Total/NA	Solid	8015B NM	98965
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015B NM	98965
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98965
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98965
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	98965
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98965

Analysis Batch: 99422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-1	T-1 (2')	Total/NA	Solid	8015 NM	
880-52603-2	T-2 (2')	Total/NA	Solid	8015 NM	
880-52603-3	T-3 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-3	T-3 (2')	Soluble	Solid	DI Leach	
MB 880-98882/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52600-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52600-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 98896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-1	T-1 (2')	Soluble	Solid	DI Leach	
880-52603-2	T-2 (2')	Soluble	Solid	DI Leach	
MB 880-98896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52659-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52659-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-1	T-1 (2')	Soluble	Solid	300.0	98896
880-52603-2	T-2 (2')	Soluble	Solid	300.0	98896

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

HPLC/IC (Continued)

Analysis Batch: 98925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98896/1-A	Method Blank	Soluble	Solid	300.0	98896
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	300.0	98896
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98896
880-52659-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	98896
880-52659-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98896

Analysis Batch: 99064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52603-3	T-3 (2')	Soluble	Solid	300.0	98882
MB 880-98882/1-A	Method Blank	Soluble	Solid	300.0	98882
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	300.0	98882
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98882
880-52600-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	98882
880-52600-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98882

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

Client Sample ID: T-1 (2')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52603-1
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	98969	12/27/24 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/28/24 08:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98939	12/28/24 08:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			99422	01/02/25 22:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 22:46	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 12:10	CH	EET MID

Client Sample ID: T-2 (2')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52603-2
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			4.98 g	5 mL	98969	12/27/24 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/28/24 08:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98939	12/28/24 08:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			99422	01/02/25 23:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 23:02	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 12:16	CH	EET MID

Client Sample ID: T-3 (2')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52603-3
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			5.00 g	5 mL	98773	12/26/24 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98775	12/26/24 20:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98939	12/26/24 20:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			99422	01/02/25 23:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 23:17	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98882	12/26/24 16:16	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99064	12/30/24 17:07	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52603-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52603-1	T-1 (2')	Solid	12/19/24 00:00	12/23/24 12:41
880-52603-2	T-2 (2')	Solid	12/19/24 00:00	12/23/24 12:41
880-52603-3	T-3 (2')	Solid	12/19/24 00:00	12/23/24 12:41

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Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee & Addison Guekter
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	Granth@forl.com & addisong@forl.com

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



880-52603 Chain of Custody

Page 1 of 1[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Donna Johnson</i>	12/23/24	<i>John Johnson</i>	12/23/24 12:28

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52603-1

SDG Number: 2608

Login Number: 52603

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 12:46:45 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52604-1

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



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1/3/2025 12:46:45 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52604-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1

Job ID: 880-52604-1

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Job Narrative 880-52604-1

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 12/23/2024 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°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 880-98965 and analytical batch 880-99298 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-98965/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

Client Sample ID: T-3 (3')

Lab Sample ID: 880-52604-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/26/24 09:52	12/27/24 14:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:52	12/27/24 14:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:52	12/27/24 14:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/26/24 09:52	12/27/24 14:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:52	12/27/24 14:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/26/24 09:52	12/27/24 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/26/24 09:52	12/27/24 14:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/26/24 09:52	12/27/24 14:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 14:46	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			01/02/25 23:34	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	<49.8	U	49.8		mg/Kg		12/27/24 14:13	01/02/25 23:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:13	01/02/25 23:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:13	01/02/25 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	12/27/24 14:13	01/02/25 23:34	1
o-Terphenyl	80		70 - 130	12/27/24 14:13	01/02/25 23:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5170		100		mg/Kg			12/30/24 17:25	10

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Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

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)
880-52604-3	T-3 (3')	107	103
880-52615-A-1-A MS	Matrix Spike	104	104
880-52615-A-1-B MSD	Matrix Spike Duplicate	101	102
LCS 880-98790/1-A	Lab Control Sample	96	103
LCSD 880-98790/2-A	Lab Control Sample Dup	105	98
MB 880-98790/5-A	Method Blank	105	97
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)
880-52595-A-1-E MS	Matrix Spike	75	75
880-52595-A-1-F MSD	Matrix Spike Duplicate	73	75
880-52604-3	T-3 (3')	84	80
LCS 880-98965/2-A	Lab Control Sample	121	119
LCSD 880-98965/3-A	Lab Control Sample Dup	132 S1+	129
MB 880-98965/1-A	Method Blank	72	70
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98790/5-A

Matrix: Solid

Analysis Batch: 98909

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:52	12/27/24 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:52	12/27/24 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:52	12/27/24 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 09:52	12/27/24 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:52	12/27/24 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 09:52	12/27/24 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	12/26/24 09:52	12/27/24 11:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/26/24 09:52	12/27/24 11:20	1

Lab Sample ID: LCS 880-98790/1-A

Matrix: Solid

Analysis Batch: 98909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98790

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1100		mg/Kg		110	70 - 130
Toluene	0.100	0.1050		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2069		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1063		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-98790/2-A

Matrix: Solid

Analysis Batch: 98909

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98790

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1202		mg/Kg		120	70 - 130	9	35
Toluene	0.100	0.1139		mg/Kg		114	70 - 130	8	35
Ethylbenzene	0.100	0.1152		mg/Kg		115	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2330		mg/Kg		116	70 - 130	12	35
o-Xylene	0.100	0.1170		mg/Kg		117	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-52615-A-1-A MS

Matrix: Solid

Analysis Batch: 98909

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98790

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1076		mg/Kg		108	70 - 130
Toluene	<0.00199	U	0.0996	0.1018		mg/Kg		102	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

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

Lab Sample ID: 880-52615-A-1-A MS

Matrix: Solid

Analysis Batch: 98909

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98790

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2072		mg/Kg		104	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1039		mg/Kg		104	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 880-52615-A-1-B MSD

Matrix: Solid

Analysis Batch: 98909

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98790

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1098		mg/Kg		109	70 - 130	2	35
Toluene	<0.00199	U	0.101	0.1022		mg/Kg		101	70 - 130	0	35
Ethylbenzene	<0.00199	U	0.101	0.1019		mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2032		mg/Kg		101	70 - 130	2	35
o-Xylene	<0.00199	U	0.101	0.1022		mg/Kg		101	70 - 130	2	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-98965/1-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98965

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		12/27/24 14:13	01/02/25 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/27/24 14:13	01/02/25 20:05	1
o-Terphenyl	70		70 - 130				12/27/24 14:13	01/02/25 20:05	1

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

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

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-98965/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1265		mg/Kg		127	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-52595-A-1-E MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	557.0	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	615.5	F1	mg/Kg		62	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-52595-A-1-F MSD

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	544.6	F1	mg/Kg		55	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	603.0	F1	mg/Kg		61	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	75		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98882/1-A

Matrix: Solid

Analysis Batch: 99064

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			12/30/24 16:14	1

Lab Sample ID: LCS 880-98882/2-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.9		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-98882/3-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.1		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-52606-A-5-B MS

Matrix: Solid

Analysis Batch: 99064

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	3190		2510	5875		mg/Kg		107	90 - 110

Lab Sample ID: 880-52606-A-5-C MSD

Matrix: Solid

Analysis Batch: 99064

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	3190		2510	5879		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

GC VOA

Prep Batch: 98790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52604-3	T-3 (3')	Total/NA	Solid	5035	
MB 880-98790/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98790/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98790/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52615-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-52615-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52604-3	T-3 (3')	Total/NA	Solid	8021B	98790
MB 880-98790/5-A	Method Blank	Total/NA	Solid	8021B	98790
LCS 880-98790/1-A	Lab Control Sample	Total/NA	Solid	8021B	98790
LCSD 880-98790/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98790
880-52615-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	98790
880-52615-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98790

Analysis Batch: 99017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52604-3	T-3 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52604-3	T-3 (3')	Total/NA	Solid	8015NM Prep	
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52604-3	T-3 (3')	Total/NA	Solid	8015B NM	98965
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015B NM	98965
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98965
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98965
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	98965
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98965

Analysis Batch: 99423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52604-3	T-3 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52604-3	T-3 (3')	Soluble	Solid	DI Leach	
MB 880-98882/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

HPLC/IC (Continued)

Leach Batch: 98882 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52606-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52606-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 99064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52604-3	T-3 (3')	Soluble	Solid	300.0	98882
MB 880-98882/1-A	Method Blank	Soluble	Solid	300.0	98882
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	300.0	98882
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98882
880-52606-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	98882
880-52606-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98882

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

Client Sample ID: T-3 (3')

Date Collected: 12/19/24 00:00

Date Received: 12/23/24 12:41

Lab Sample ID: 880-52604-3

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			5.01 g	5 mL	98790	12/26/24 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98909	12/27/24 14:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99017	12/27/24 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			99423	01/02/25 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 23:34	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98882	12/26/24 16:16	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99064	12/30/24 17:25	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52604-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52604-3	T-3 (3')	Solid	12/19/24 00:00	12/23/24 12:41

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

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee & Addison Guetker
Company Name:	Cammona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@lori.com & addisong@lori.com

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

[illegible]

Comments:

Comments:			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Don Myers</i>	11/23/24	<i>Toby Randall</i>	12/27/24



880-52604 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52604-1

SDG Number: 2608

Login Number: 52604

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

- 1
- 2
- 3
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- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 12:45:05 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52599-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.



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
1/3/2025 12:45:05 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52599-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

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.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1

Job ID: 880-52599-1

Eurofins Midland

Job Narrative 880-52599-1

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 12/23/2024 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°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 880-98965 and analytical batch 880-99298 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-98965/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98881 and analytical batch 880-98951 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

Client Sample ID: T-3 (4')

Lab Sample ID: 880-52599-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 08:43	12/27/24 13:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 13:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 13:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/27/24 08:43	12/27/24 13:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 13:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/27/24 08:43	12/27/24 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/27/24 08:43	12/27/24 13:58	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/27/24 08:43	12/27/24 13:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/27/24 13:58	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			01/02/25 22:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 22:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 22:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	12/27/24 14:13	01/02/25 22:30	1
o-Terphenyl	74		70 - 130	12/27/24 14:13	01/02/25 22:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9190		99.0		mg/Kg			12/28/24 03:00	10

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

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)
880-52599-3	T-3 (4')	116	93
890-7511-A-4-D MS	Matrix Spike	100	98
890-7511-A-4-E MSD	Matrix Spike Duplicate	98	97
LCS 880-98912/1-A	Lab Control Sample	104	97
LCSD 880-98912/2-A	Lab Control Sample Dup	100	96
MB 880-98912/5-A	Method Blank	107	84
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)
880-52595-A-1-E MS	Matrix Spike	75	75
880-52595-A-1-F MSD	Matrix Spike Duplicate	73	75
880-52599-3	T-3 (4')	75	74
LCS 880-98965/2-A	Lab Control Sample	121	119
LCSD 880-98965/3-A	Lab Control Sample Dup	132 S1+	129
MB 880-98965/1-A	Method Blank	72	70
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98912/5-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/27/24 08:43	12/27/24 11:13	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/27/24 08:43	12/27/24 11:13	1

Lab Sample ID: LCS 880-98912/1-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	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 880-98912/2-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1060		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.09747		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.09858		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1093		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0996	0.1026		mg/Kg		103	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

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

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1074		mg/Kg		108	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 890-7511-A-4-E MSD

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1106		mg/Kg		110	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1056		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2113		mg/Kg		105	70 - 130	0	35
o-Xylene	<0.00199	U	0.101	0.1078		mg/Kg		107	70 - 130	0	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-98965/1-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98965

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		12/27/24 14:13	01/02/25 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/27/24 14:13	01/02/25 20:05	1
o-Terphenyl	70		70 - 130				12/27/24 14:13	01/02/25 20:05	1

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

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

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-98965/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1265		mg/Kg		127	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-52595-A-1-E MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	557.0	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	615.5	F1	mg/Kg		62	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-52595-A-1-F MSD

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	544.6	F1	mg/Kg		55	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	603.0	F1	mg/Kg		61	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	75		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98881/1-A

Matrix: Solid

Analysis Batch: 98951

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			12/28/24 00:10	1

Lab Sample ID: LCS 880-98881/2-A

Matrix: Solid

Analysis Batch: 98951

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-98881/3-A

Matrix: Solid

Analysis Batch: 98951

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	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-52592-A-41-C MS

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.2	F1	mg/Kg		126	90 - 110

Lab Sample ID: 880-52592-A-41-D MSD

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.6	F1	mg/Kg		126	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

GC VOA

Analysis Batch: 98908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52599-3	T-3 (4')	Total/NA	Solid	8021B	98912
MB 880-98912/5-A	Method Blank	Total/NA	Solid	8021B	98912
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	8021B	98912
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98912
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	98912
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98912

Prep Batch: 98912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52599-3	T-3 (4')	Total/NA	Solid	5035	
MB 880-98912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52599-3	T-3 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52599-3	T-3 (4')	Total/NA	Solid	8015NM Prep	
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52599-3	T-3 (4')	Total/NA	Solid	8015B NM	98965
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015B NM	98965
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98965
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98965
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	98965
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98965

Analysis Batch: 99421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52599-3	T-3 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52599-3	T-3 (4')	Soluble	Solid	DI Leach	
MB 880-98881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

HPLC/IC (Continued)

Leach Batch: 98881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52599-3	T-3 (4')	Soluble	Solid	300.0	98881
MB 880-98881/1-A	Method Blank	Soluble	Solid	300.0	98881
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	300.0	98881
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98881
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	300.0	98881
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98881

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

Client Sample ID: T-3 (4')
Date Collected: 12/19/24 00:00
Date Received: 12/23/24 12:41

Lab Sample ID: 880-52599-3
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			4.99 g	5 mL	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99009	12/27/24 13:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			99421	01/02/25 22:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 22:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		10			98951	12/28/24 03:00	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52599-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52599-3	T-3 (4')	Solid	12/19/24 00:00	12/23/24 12:41

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

Chain of Custody

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee & Addison Quekler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	Granth@for.com & addisong@for.com

Work Order Comments									
Program:	UST/ST	<input type="checkbox"/> RP	<input type="checkbox"/> Downfields	<input type="checkbox"/> RC	<input type="checkbox"/> <input type="checkbox"/> perfund	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State of Project:									
Reporting Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	ST/UST	<input type="checkbox"/>	RRP	<input type="checkbox"/>	Level IV	<input type="checkbox"/>
Deliverables:	EDD	<input type="checkbox"/>	Adapt	<input type="checkbox"/>	Other:				

[illegible]

880-52599 Chain of Custody



Comments:

Comments:			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Donna Mayberry</i>	12/23/24	<i>Toby Kautz</i>	12/29/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52599-1

SDG Number: 2608

Login Number: 52599

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 12:45:02 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52598-1

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
1/3/2025 12:45:02 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52598-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

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.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1

Job ID: 880-52598-1**Eurofins Midland****Job Narrative
880-52598-1**

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 12/23/2024 12:41 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°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 880-98965 and analytical batch 880-99298 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-98965/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98881 and analytical batch 880-98951 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

Client Sample ID: T-3 (5')

Lab Sample ID: 880-52598-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/27/24 08:43	12/27/24 13:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/27/24 08:43	12/27/24 13:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/27/24 08:43	12/27/24 13:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/27/24 08:43	12/27/24 13:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/27/24 08:43	12/27/24 13:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/27/24 08:43	12/27/24 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/27/24 08:43	12/27/24 13:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/27/24 08:43	12/27/24 13:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/27/24 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/02/25 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 22:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 22:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 22:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	12/27/24 14:13	01/02/25 22:14	1
o-Terphenyl	79		70 - 130	12/27/24 14:13	01/02/25 22:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710		50.1		mg/Kg			12/28/24 02:55	5

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

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)
880-52598-1	T-3 (5')	119	92
890-7511-A-4-D MS	Matrix Spike	100	98
890-7511-A-4-E MSD	Matrix Spike Duplicate	98	97
LCS 880-98912/1-A	Lab Control Sample	104	97
LCSD 880-98912/2-A	Lab Control Sample Dup	100	96
MB 880-98912/5-A	Method Blank	107	84
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)
880-52595-A-1-E MS	Matrix Spike	75	75
880-52595-A-1-F MSD	Matrix Spike Duplicate	73	75
880-52598-1	T-3 (5')	82	79
LCS 880-98965/2-A	Lab Control Sample	121	119
LCSD 880-98965/3-A	Lab Control Sample Dup	132 S1+	129
MB 880-98965/1-A	Method Blank	72	70
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98912/5-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/27/24 08:43	12/27/24 11:13	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/27/24 08:43	12/27/24 11:13	1

Lab Sample ID: LCS 880-98912/1-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	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 880-98912/2-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1060		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.09747		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.09858		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1093		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0996	0.1026		mg/Kg		103	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

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

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1074		mg/Kg		108	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 890-7511-A-4-E MSD

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1106		mg/Kg		110	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1056		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2113		mg/Kg		105	70 - 130	0	35
o-Xylene	<0.00199	U	0.101	0.1078		mg/Kg		107	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-98965/1-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98965

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		12/27/24 14:13	01/02/25 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/27/24 14:13	01/02/25 20:05	1
o-Terphenyl	70		70 - 130				12/27/24 14:13	01/02/25 20:05	1

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

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

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-98965/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1265		mg/Kg		127	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-52595-A-1-E MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	557.0	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	615.5	F1	mg/Kg		62	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-52595-A-1-F MSD

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	544.6	F1	mg/Kg		55	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	603.0	F1	mg/Kg		61	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	75		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98881/1-A

Matrix: Solid

Analysis Batch: 98951

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			12/28/24 00:10	1

Lab Sample ID: LCS 880-98881/2-A

Matrix: Solid

Analysis Batch: 98951

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-98881/3-A

Matrix: Solid

Analysis Batch: 98951

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	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-52592-A-41-C MS

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.2	F1	mg/Kg		126	90 - 110

Lab Sample ID: 880-52592-A-41-D MSD

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.6	F1	mg/Kg		126	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

GC VOA

Analysis Batch: 98908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52598-1	T-3 (5')	Total/NA	Solid	8021B	98912
MB 880-98912/5-A	Method Blank	Total/NA	Solid	8021B	98912
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	8021B	98912
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98912
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	98912
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98912

Prep Batch: 98912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52598-1	T-3 (5')	Total/NA	Solid	5035	
MB 880-98912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52598-1	T-3 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52598-1	T-3 (5')	Total/NA	Solid	8015NM Prep	
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52598-1	T-3 (5')	Total/NA	Solid	8015B NM	98965
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015B NM	98965
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98965
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98965
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	98965
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98965

Analysis Batch: 99420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52598-1	T-3 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52598-1	T-3 (5')	Soluble	Solid	DI Leach	
MB 880-98881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

HPLC/IC (Continued)

Leach Batch: 98881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52598-1	T-3 (5')	Soluble	Solid	300.0	98881
MB 880-98881/1-A	Method Blank	Soluble	Solid	300.0	98881
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	300.0	98881
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98881
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	300.0	98881
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98881

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

Client Sample ID: T-3 (5')

Date Collected: 12/19/24 00:00

Date Received: 12/23/24 12:41

Lab Sample ID: 880-52598-1

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			4.97 g	5 mL	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99008	12/27/24 13:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			99420	01/02/25 22:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 22:14	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		5			98951	12/28/24 02:55	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52598-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52598-1	T-3 (5')	Solid	12/19/24 00:00	12/23/24 12:41

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

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabay & Addison Guekler
Company Name:	Carmoma Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@for.com & addisonq@for.com

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

[illegible]

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Donny Gable</i>	12/29/24	<i>Donny Gable</i>	12/29/24



880-52598 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52598-1

SDG Number: 2608

Login Number: 52598

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 12:44:01 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52597-1

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
1/3/2025 12:44:01 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52597-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

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.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1

Job ID: 880-52597-1

Eurofins Midland

Job Narrative 880-52597-1

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 12/23/2024 12:41 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°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 880-98965 and analytical batch 880-99298 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-98965/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98881 and analytical batch 880-98951 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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

Client Sample ID: T-3 (6')

Lab Sample ID: 880-52597-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 08:43	12/27/24 13:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 08:43	12/27/24 13:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 08:43	12/27/24 13:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/27/24 08:43	12/27/24 13:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 08:43	12/27/24 13:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/27/24 08:43	12/27/24 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/27/24 08:43	12/27/24 13:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/27/24 08:43	12/27/24 13:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/27/24 13:17	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			01/02/25 21:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 21:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 21:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 14:13	01/02/25 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	12/27/24 14:13	01/02/25 21:58	1
o-Terphenyl	81		70 - 130	12/27/24 14:13	01/02/25 21:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620		50.0		mg/Kg			12/28/24 02:49	5

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

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)
880-52597-1	T-3 (6')	117	94
890-7511-A-4-D MS	Matrix Spike	100	98
890-7511-A-4-E MSD	Matrix Spike Duplicate	98	97
LCS 880-98912/1-A	Lab Control Sample	104	97
LCSD 880-98912/2-A	Lab Control Sample Dup	100	96
MB 880-98912/5-A	Method Blank	107	84
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)
880-52595-A-1-E MS	Matrix Spike	75	75
880-52595-A-1-F MSD	Matrix Spike Duplicate	73	75
880-52597-1	T-3 (6')	83	81
LCS 880-98965/2-A	Lab Control Sample	121	119
LCSD 880-98965/3-A	Lab Control Sample Dup	132 S1+	129
MB 880-98965/1-A	Method Blank	72	70
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98912/5-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/27/24 08:43	12/27/24 11:13	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/27/24 08:43	12/27/24 11:13	1

Lab Sample ID: LCS 880-98912/1-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	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 880-98912/2-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1060		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.09747		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.09858		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1093		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0996	0.1026		mg/Kg		103	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

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

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1074		mg/Kg		108	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 890-7511-A-4-E MSD

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1106		mg/Kg		110	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1056		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2113		mg/Kg		105	70 - 130	0	35
o-Xylene	<0.00199	U	0.101	0.1078		mg/Kg		107	70 - 130	0	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-98965/1-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98965

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		12/27/24 14:13	01/02/25 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/27/24 14:13	01/02/25 20:05	1
o-Terphenyl	70		70 - 130				12/27/24 14:13	01/02/25 20:05	1

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

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

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-98965/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1265		mg/Kg		127	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-52595-A-1-E MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	557.0	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	615.5	F1	mg/Kg		62	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-52595-A-1-F MSD

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	544.6	F1	mg/Kg		55	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	603.0	F1	mg/Kg		61	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	75		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98881/1-A

Matrix: Solid

Analysis Batch: 98951

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			12/28/24 00:10	1

Lab Sample ID: LCS 880-98881/2-A

Matrix: Solid

Analysis Batch: 98951

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-98881/3-A

Matrix: Solid

Analysis Batch: 98951

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	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-52592-A-41-C MS

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.2	F1	mg/Kg		126	90 - 110

Lab Sample ID: 880-52592-A-41-D MSD

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.6	F1	mg/Kg		126	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

GC VOA

Analysis Batch: 98908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52597-1	T-3 (6')	Total/NA	Solid	8021B	98912
MB 880-98912/5-A	Method Blank	Total/NA	Solid	8021B	98912
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	8021B	98912
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98912
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	98912
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98912

Prep Batch: 98912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52597-1	T-3 (6')	Total/NA	Solid	5035	
MB 880-98912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52597-1	T-3 (6')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52597-1	T-3 (6')	Total/NA	Solid	8015NM Prep	
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52597-1	T-3 (6')	Total/NA	Solid	8015B NM	98965
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015B NM	98965
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98965
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98965
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	98965
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98965

Analysis Batch: 99419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52597-1	T-3 (6')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52597-1	T-3 (6')	Soluble	Solid	DI Leach	
MB 880-98881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

HPLC/IC (Continued)

Leach Batch: 98881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52597-1	T-3 (6')	Soluble	Solid	300.0	98881
MB 880-98881/1-A	Method Blank	Soluble	Solid	300.0	98881
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	300.0	98881
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98881
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	300.0	98881
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98881

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

Client Sample ID: T-3 (6')

Date Collected: 12/19/24 00:00

Date Received: 12/23/24 12:41

Lab Sample ID: 880-52597-1

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	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99007	12/27/24 13:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			99419	01/02/25 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 21:58	TKC	EET MID
Soluble	Leach	DI Leach			5.0 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		5			98951	12/28/24 02:49	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52597-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52597-1	T-3 (6')	Solid	12/19/24 00:00	12/23/24 12:41

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

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabay & Addison Guekler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@forl.com & addisonq@forl.com

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





880-52597 Chain of Custody

Page 1 of 1

[illegible]

Comments:

Comments:			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/23/24		12/23/24 12

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52597-1

SDG Number: 2608

Login Number: 52597

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 12:43:36 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52596-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
1/3/2025 12:43:36 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52596-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

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.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1

Job ID: 880-52596-1

Eurofins Midland

Job Narrative 880-52596-1

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 12/23/2024 12:41 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°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 880-98965 and analytical batch 880-99298 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-98965/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98881 and analytical batch 880-98951 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

Client Sample ID: T-3 (7')

Lab Sample ID: 880-52596-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 08:43	12/27/24 12:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 12:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 12:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 08:43	12/27/24 12:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 12:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 08:43	12/27/24 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/27/24 08:43	12/27/24 12:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/27/24 08:43	12/27/24 12:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 12:57	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			01/02/25 21:42	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		12/27/24 14:13	01/02/25 21:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:13	01/02/25 21:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:13	01/02/25 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	12/27/24 14:13	01/02/25 21:42	1
o-Terphenyl	79		70 - 130	12/27/24 14:13	01/02/25 21:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		50.4		mg/Kg			12/30/24 12:30	5

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

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)
880-52596-1	T-3 (7')	121	93
890-7511-A-4-D MS	Matrix Spike	100	98
890-7511-A-4-E MSD	Matrix Spike Duplicate	98	97
LCS 880-98912/1-A	Lab Control Sample	104	97
LCSD 880-98912/2-A	Lab Control Sample Dup	100	96
MB 880-98912/5-A	Method Blank	107	84
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)
880-52595-A-1-E MS	Matrix Spike	75	75
880-52595-A-1-F MSD	Matrix Spike Duplicate	73	75
880-52596-1	T-3 (7')	81	79
LCS 880-98965/2-A	Lab Control Sample	121	119
LCSD 880-98965/3-A	Lab Control Sample Dup	132 S1+	129
MB 880-98965/1-A	Method Blank	72	70
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98912/5-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/27/24 08:43	12/27/24 11:13	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/27/24 08:43	12/27/24 11:13	1

Lab Sample ID: LCS 880-98912/1-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	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 880-98912/2-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1060		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.09747		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.09858		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1093		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0996	0.1026		mg/Kg		103	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

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

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1074		mg/Kg		108	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 890-7511-A-4-E MSD

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1106		mg/Kg		110	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1056		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2113		mg/Kg		105	70 - 130	0	35
o-Xylene	<0.00199	U	0.101	0.1078		mg/Kg		107	70 - 130	0	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-98965/1-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98965

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		12/27/24 14:13	01/02/25 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/27/24 14:13	01/02/25 20:05	1
o-Terphenyl	70		70 - 130				12/27/24 14:13	01/02/25 20:05	1

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

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

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-98965/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1265		mg/Kg		127	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-52595-A-1-E MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	557.0	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	615.5	F1	mg/Kg		62	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-52595-A-1-F MSD

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	544.6	F1	mg/Kg		55	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	603.0	F1	mg/Kg		61	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	75		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98881/1-A

Matrix: Solid

Analysis Batch: 98951

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			12/28/24 00:10	1

Lab Sample ID: LCS 880-98881/2-A

Matrix: Solid

Analysis Batch: 98951

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-98881/3-A

Matrix: Solid

Analysis Batch: 98951

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	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-52592-A-41-C MS

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.2	F1	mg/Kg		126	90 - 110

Lab Sample ID: 880-52592-A-41-D MSD

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.6	F1	mg/Kg		126	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

GC VOA

Analysis Batch: 98908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52596-1	T-3 (7')	Total/NA	Solid	8021B	98912
MB 880-98912/5-A	Method Blank	Total/NA	Solid	8021B	98912
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	8021B	98912
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98912
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	98912
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98912

Prep Batch: 98912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52596-1	T-3 (7')	Total/NA	Solid	5035	
MB 880-98912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52596-1	T-3 (7')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52596-1	T-3 (7')	Total/NA	Solid	8015NM Prep	
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52596-1	T-3 (7')	Total/NA	Solid	8015B NM	98965
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015B NM	98965
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98965
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98965
880-52595-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	98965
880-52595-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98965

Analysis Batch: 99418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52596-1	T-3 (7')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52596-1	T-3 (7')	Soluble	Solid	DI Leach	
MB 880-98881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

HPLC/IC (Continued)

Leach Batch: 98881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52596-1	T-3 (7")	Soluble	Solid	300.0	98881
MB 880-98881/1-A	Method Blank	Soluble	Solid	300.0	98881
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	300.0	98881
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98881
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	300.0	98881
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98881

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

Client Sample ID: T-3 (7')

Date Collected: 12/19/24 00:00

Date Received: 12/23/24 12:41

Lab Sample ID: 880-52596-1

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	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99006	12/27/24 12:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			99418	01/02/25 21:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 21:42	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		5			98951	12/30/24 12:30	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52596-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52596-1	T-3 (7')	Solid	12/19/24 00:00	12/23/24 12:41

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

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabay & Addison Guekler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@for.com & addisong@for.com

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

[illegible]

Comments:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Don McLaughlin</i>	12/23/24	<i>Jacky Rouseff</i>	12/23/24 12:30



880-52596 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52596-1

SDG Number: 2608

Login Number: 52596

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 12:43:35 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52595-1

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
1/3/2025 12:43:35 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52595-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

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.
S1+	Surrogate recovery exceeds control limits, high biased.
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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1

Job ID: 880-52595-1**Eurofins Midland****Job Narrative
880-52595-1**

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 12/23/2024 12:41 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°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 880-98965 and analytical batch 880-99298 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-98965/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98881 and analytical batch 880-98951 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

Client Sample ID: T-3 (8')

Lab Sample ID: 880-52595-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 08:43	12/27/24 12:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 12:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 12:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 08:43	12/27/24 12:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 12:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 08:43	12/27/24 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/27/24 08:43	12/27/24 12:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/27/24 08:43	12/27/24 12:36	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			12/27/24 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/02/25 20:54	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 F1	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	12/27/24 14:13	01/02/25 20:54	1
o-Terphenyl	75		70 - 130	12/27/24 14:13	01/02/25 20:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		9.98		mg/Kg			12/28/24 02:37	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

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)
880-52595-1	T-3 (8')	115	91
890-7511-A-4-D MS	Matrix Spike	100	98
890-7511-A-4-E MSD	Matrix Spike Duplicate	98	97
LCS 880-98912/1-A	Lab Control Sample	104	97
LCSD 880-98912/2-A	Lab Control Sample Dup	100	96
MB 880-98912/5-A	Method Blank	107	84
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)
880-52595-1	T-3 (8')	76	75
880-52595-1 MS	T-3 (8')	75	75
880-52595-1 MSD	T-3 (8')	73	75
LCS 880-98965/2-A	Lab Control Sample	121	119
LCSD 880-98965/3-A	Lab Control Sample Dup	132 S1+	129
MB 880-98965/1-A	Method Blank	72	70
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98912/5-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/27/24 08:43	12/27/24 11:13	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/27/24 08:43	12/27/24 11:13	1

Lab Sample ID: LCS 880-98912/1-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	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 880-98912/2-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1060		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.09747		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.09858		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1093		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0996	0.1026		mg/Kg		103	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

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

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1074		mg/Kg		108	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 890-7511-A-4-E MSD

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1106		mg/Kg		110	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.1056		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2113		mg/Kg		105	70 - 130	0	35
o-Xylene	<0.00199	U	0.101	0.1078		mg/Kg		107	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-98965/1-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98965

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		12/27/24 14:13	01/02/25 20:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:13	01/02/25 20:05	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				12/27/24 14:13	01/02/25 20:05	1
o-Terphenyl	70		70 - 130				12/27/24 14:13	01/02/25 20:05	1

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

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

Lab Sample ID: LCS 880-98965/2-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98965

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-98965/3-A

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1265		mg/Kg		127	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-52595-1 MS

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: T-3 (8')

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	557.0	F1	mg/Kg		56	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	615.5	F1	mg/Kg		62	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-52595-1 MSD

Matrix: Solid

Analysis Batch: 99298

Client Sample ID: T-3 (8')

Prep Type: Total/NA

Prep Batch: 98965

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 F1	996	544.6	F1	mg/Kg		55	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	996	603.0	F1	mg/Kg		61	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	75		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98881/1-A

Matrix: Solid

Analysis Batch: 98951

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			12/28/24 00:10	1

Lab Sample ID: LCS 880-98881/2-A

Matrix: Solid

Analysis Batch: 98951

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-98881/3-A

Matrix: Solid

Analysis Batch: 98951

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	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-52592-A-41-C MS

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.2	F1	mg/Kg		126	90 - 110

Lab Sample ID: 880-52592-A-41-D MSD

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.6	F1	mg/Kg		126	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

GC VOA

Analysis Batch: 98908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52595-1	T-3 (8')	Total/NA	Solid	8021B	98912
MB 880-98912/5-A	Method Blank	Total/NA	Solid	8021B	98912
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	8021B	98912
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98912
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	98912
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98912

Prep Batch: 98912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52595-1	T-3 (8')	Total/NA	Solid	5035	
MB 880-98912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52595-1	T-3 (8')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52595-1	T-3 (8')	Total/NA	Solid	8015NM Prep	
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52595-1 MS	T-3 (8')	Total/NA	Solid	8015NM Prep	
880-52595-1 MSD	T-3 (8')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52595-1	T-3 (8')	Total/NA	Solid	8015B NM	98965
MB 880-98965/1-A	Method Blank	Total/NA	Solid	8015B NM	98965
LCS 880-98965/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98965
LCSD 880-98965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98965
880-52595-1 MS	T-3 (8')	Total/NA	Solid	8015B NM	98965
880-52595-1 MSD	T-3 (8')	Total/NA	Solid	8015B NM	98965

Analysis Batch: 99417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52595-1	T-3 (8')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52595-1	T-3 (8')	Soluble	Solid	DI Leach	
MB 880-98881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

HPLC/IC (Continued)

Leach Batch: 98881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52595-1	T-3 (8')	Soluble	Solid	300.0	98881
MB 880-98881/1-A	Method Blank	Soluble	Solid	300.0	98881
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	300.0	98881
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98881
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	300.0	98881
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98881

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

Client Sample ID: T-3 (8')

Date Collected: 12/19/24 00:00

Date Received: 12/23/24 12:41

Lab Sample ID: 880-52595-1

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	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99005	12/27/24 12:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			99417	01/02/25 20:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98965	12/27/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99298	01/02/25 20:54	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 02:37	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52595-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52595-1	T-3 (8')	Solid	12/19/24 00:00	12/23/24 12:41

- 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)	Grant Huckabee & Addison Guetler
Company Name:	Cammona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@fort.com & addisonq@fort.com

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

[illegible]

Comments:			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Donna M. Gentry</i>	12/23/24	<i>Donna M. Gentry</i>	12/23/24



Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52595-1

SDG Number: 2608

Login Number: 52595

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/3/2025 12:45:47 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
2608

JOB NUMBER

880-52600-1

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
1/3/2025 12:45:47 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-52600-1
SDG: 2608

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

Qualifiers

GC 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.

GC Semi VOA

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

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1

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Job Narrative 880-52600-1

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 12/23/2024 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-98785 and 880-98969 and analytical batch 880-98922 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-98922 recovered under the lower control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98915 and analytical batch 880-99020 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-98964 and analytical batch 880-99300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-98964/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-98964/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98964 and analytical batch 880-99300 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 continuing calibration verification (CCV) associated with batch 880-99300 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). 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 880-99300/21).

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 880-98896 and analytical batch 880-98925 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.

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Case Narrative

Client: Carmona Resources
Project: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1

Job ID: 880-52600-1 (Continued) Eurofins Midland

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98881 and analytical batch 880-98951 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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: 880-52600-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 08:43	12/27/24 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/27/24 08:43	12/27/24 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/27/24 08:43	12/27/24 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/27/24 08:43	12/27/24 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/27/24 08:43	12/27/24 14:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/27/24 08:43	12/27/24 14:19	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			12/27/24 14:19	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			01/02/25 17:39	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	<49.8	U	49.8		mg/Kg		12/27/24 14:03	01/02/25 17:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:03	01/02/25 17:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:03	01/02/25 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	12/27/24 14:03	01/02/25 17:39	1
o-Terphenyl	110		70 - 130	12/27/24 14:03	01/02/25 17:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		9.98		mg/Kg			12/28/24 03:06	1

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

Lab Sample ID: 880-52600-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 08:43	12/27/24 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 14:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 08:43	12/27/24 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 14:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 08:43	12/27/24 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/27/24 08:43	12/27/24 14:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/27/24 08:43	12/27/24 14:39	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: 880-52600-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/24 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	<49.7	U	49.7		mg/Kg			01/02/25 17:56	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		12/27/24 14:03	01/02/25 17:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/27/24 14:03	01/02/25 17:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 14:03	01/02/25 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				12/27/24 14:03	01/02/25 17:56	1
o-Terphenyl	96		70 - 130				12/27/24 14:03	01/02/25 17:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.6		9.90		mg/Kg			12/30/24 16:32	1

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

Lab Sample ID: 880-52600-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 09:29	12/30/24 18:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 18:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 18:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 09:29	12/30/24 18:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 18:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 09:29	12/30/24 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				12/27/24 09:29	12/30/24 18:33	1
1,4-Difluorobenzene (Surr)	106		70 - 130				12/27/24 09:29	12/30/24 18:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/30/24 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/02/25 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 14:03	01/02/25 18:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:03	01/02/25 18:12	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: 880-52600-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:03	01/02/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				12/27/24 14:03	01/02/25 18:12	1
o-Terphenyl	99		70 - 130				12/27/24 14:03	01/02/25 18:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.7		9.92		mg/Kg			12/30/24 16:50	1

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

Lab Sample ID: 880-52600-4

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 14:31	12/28/24 07:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/27/24 14:31	12/28/24 07:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/27/24 14:31	12/28/24 07:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/27/24 14:31	12/28/24 07:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/27/24 14:31	12/28/24 07:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/27/24 14:31	12/28/24 07:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/27/24 14:31	12/28/24 07:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/27/24 14:31	12/28/24 07:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/28/24 07:41	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			01/02/25 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/27/24 14:03	01/02/25 18:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:03	01/02/25 18:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:03	01/02/25 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				12/27/24 14:03	01/02/25 18:29	1
o-Terphenyl	100		70 - 130				12/27/24 14:03	01/02/25 18:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.96		mg/Kg			12/27/24 11:23	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-52600-5

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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		12/27/24 14:31	12/28/24 08:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 08:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 08:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/27/24 14:31	12/28/24 08:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 08:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/27/24 14:31	12/28/24 08:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	12/27/24 14:31	12/28/24 08:01	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/27/24 14:31	12/28/24 08:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/28/24 08:01	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			01/02/25 18:45	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		12/27/24 14:03	01/02/25 18:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 14:03	01/02/25 18:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 14:03	01/02/25 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	12/27/24 14:03	01/02/25 18:45	1
o-Terphenyl	109		70 - 130	12/27/24 14:03	01/02/25 18:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.6		9.90		mg/Kg			12/27/24 11:29	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-52600-1	H-1 (0-0.5')	119	93				
880-52600-2	H-2 (0-0.5')	120	94				
880-52600-3	H-3 (0-0.5')	112	106				
880-52600-4	H-4 (0-0.5')	116	102				
880-52600-5	H-5 (0-0.5')	129	105				
880-52663-A-1-B MS	Matrix Spike	130	98				
880-52663-A-1-C MSD	Matrix Spike Duplicate	112	103				
890-7511-A-4-D MS	Matrix Spike	100	98				
890-7511-A-4-E MSD	Matrix Spike Duplicate	98	97				
890-7515-A-21-A MS	Matrix Spike	109	104				
890-7515-A-21-B MSD	Matrix Spike Duplicate	116	104				
LCS 880-98912/1-A	Lab Control Sample	104	97				
LCS 880-98915/1-A	Lab Control Sample	108	104				
LCS 880-98969/1-A	Lab Control Sample	116	89				
LCSD 880-98912/2-A	Lab Control Sample Dup	100	96				
LCSD 880-98915/2-A	Lab Control Sample Dup	107	103				
LCSD 880-98969/2-A	Lab Control Sample Dup	108	105				
MB 880-98785/5-A	Method Blank	153 S1+	83				
MB 880-98912/5-A	Method Blank	107	84				
MB 880-98915/5-A	Method Blank	108	102				
MB 880-98969/5-A	Method Blank	227 S1+	123				
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	OTPH1				
		(70-130)	(70-130)				
880-52592-A-28-D MS	Matrix Spike	89	97				
880-52592-A-28-E MSD	Matrix Spike Duplicate	104	98				
880-52600-1	H-1 (0-0.5')	108	110				
880-52600-2	H-2 (0-0.5')	96	96				
880-52600-3	H-3 (0-0.5')	98	99				
880-52600-4	H-4 (0-0.5')	96	100				
880-52600-5	H-5 (0-0.5')	105	109				
LCS 880-98964/2-A	Lab Control Sample	127	137 S1+				
LCSD 880-98964/3-A	Lab Control Sample Dup	137 S1+	146 S1+				
MB 880-98964/1-A	Method Blank	133 S1+	136 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98785/5-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/26/24 09:36	12/27/24 13:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/26/24 09:36	12/27/24 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	12/26/24 09:36	12/27/24 13:00	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/26/24 09:36	12/27/24 13:00	1

Lab Sample ID: MB 880-98912/5-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 08:43	12/27/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 08:43	12/27/24 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/27/24 08:43	12/27/24 11:13	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/27/24 08:43	12/27/24 11:13	1

Lab Sample ID: LCS 880-98912/1-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	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 880-98912/2-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1060		mg/Kg		106	70 - 130	0	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: LCSD 880-98912/2-A

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.09747		mg/Kg		97	70 - 130	3		35
Ethylbenzene	0.100	0.09858		mg/Kg		99	70 - 130	2		35
m-Xylene & p-Xylene	0.200	0.1965		mg/Kg		98	70 - 130	2		35
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	1		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-7511-A-4-D MS

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U	0.0996	0.1093		mg/Kg		110	70 - 130	
Toluene	<0.00199	U	0.0996	0.1026		mg/Kg		103	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.1048		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.1074		mg/Kg		108	70 - 130	

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

Lab Sample ID: 890-7511-A-4-E MSD

Matrix: Solid

Analysis Batch: 98908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00199	U	0.101	0.1106		mg/Kg		110	70 - 130	1		35
Toluene	<0.00199	U	0.101	0.1040		mg/Kg		103	70 - 130	1		35
Ethylbenzene	<0.00199	U	0.101	0.1056		mg/Kg		105	70 - 130	1		35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2113		mg/Kg		105	70 - 130	0		35
o-Xylene	<0.00199	U	0.101	0.1078		mg/Kg		107	70 - 130	0		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-98915/5-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98915

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 09:29	12/30/24 12:11	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: MB 880-98915/5-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98915

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 09:29	12/30/24 12:11	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	108		70 - 130				12/27/24 09:29	12/30/24 12:11	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/27/24 09:29	12/30/24 12:11	1

Lab Sample ID: LCS 880-98915/1-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits		
		Result	Qualifier						
Benzene	0.100	0.08157		mg/Kg		82	70 - 130		
Toluene	0.100	0.08119		mg/Kg		81	70 - 130		
Ethylbenzene	0.100	0.07901		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene	0.200	0.1593		mg/Kg		80	70 - 130		
o-Xylene	0.100	0.08602		mg/Kg		86	70 - 130		
Surrogate	LCS	LCS	Limits				%Recovery	Qualifier	
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	108		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: LCSD 880-98915/2-A

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.100	0.09210		mg/Kg		92	70 - 130	12	35
Toluene	0.100	0.09059		mg/Kg		91	70 - 130	11	35
Ethylbenzene	0.100	0.08775		mg/Kg		88	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1772		mg/Kg		89	70 - 130	11	35
o-Xylene	0.100	0.09422		mg/Kg		94	70 - 130	9	35
Surrogate	LCSD	LCSD	Limits				%Recovery	Qualifier	
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	107		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 890-7515-A-21-A MS

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00199	U	0.0996	0.1011		mg/Kg		101	70 - 130		
Toluene	<0.00199	U	0.0996	0.08001		mg/Kg		80	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.07159		mg/Kg		72	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.03152	F1	mg/Kg		16	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.09518		mg/Kg		96	70 - 130		

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: 890-7515-A-21-A MS

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98915

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

Lab Sample ID: 890-7515-A-21-B MSD

Matrix: Solid

Analysis Batch: 99020

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98915

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1022		mg/Kg		101	70 - 130	1	35
Toluene	<0.00199	U	0.101	0.07713		mg/Kg		77	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.101	0.07117		mg/Kg		71	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.202	0.01728	F1 F2	mg/Kg		9	70 - 130	58	35
o-Xylene	<0.00199	U	0.101	0.09905		mg/Kg		98	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-98969/5-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/27/24 14:31	12/28/24 00:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/27/24 14:31	12/28/24 00:36	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	227	S1+	70 - 130	12/27/24 14:31	12/28/24 00:36	1
1,4-Difluorobenzene (Surr)	123		70 - 130	12/27/24 14:31	12/28/24 00:36	1

Lab Sample ID: LCS 880-98969/1-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1005		mg/Kg		101	70 - 130
Toluene	0.100	0.1016		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2269		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1185		mg/Kg		119	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: LCS 880-98969/1-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98969

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

Lab Sample ID: LCSD 880-98969/2-A

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98969

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.1078		mg/Kg		108	70 - 130	7	35		
Toluene	0.100	0.1031		mg/Kg		103	70 - 130	1	35		
Ethylbenzene	0.100	0.09733		mg/Kg		97	70 - 130	3	35		
m-Xylene & p-Xylene	0.200	0.2192		mg/Kg		110	70 - 130	3	35		
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130	2	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-52663-A-1-B MS

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98969

	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0996	0.09767		mg/Kg		98	70 - 130	
Toluene	<0.00199	U	0.0996	0.08745		mg/Kg		88	70 - 130	
Ethylbenzene	<0.00199	U	0.0996	0.08207		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.00818		0.199	0.2184		mg/Kg		106	70 - 130	
o-Xylene	0.00492		0.0996	0.1214		mg/Kg		117	70 - 130	

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

Lab Sample ID: 880-52663-A-1-C MSD

Matrix: Solid

Analysis Batch: 98922

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98969

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: MB 880-98964/1-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98964

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		12/27/24 14:03	01/02/25 09:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 14:03	01/02/25 09:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 14:03	01/02/25 09:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				12/27/24 14:03	01/02/25 09:46	1
o-Terphenyl	136	S1+	70 - 130				12/27/24 14:03	01/02/25 09:46	1

Lab Sample ID: LCS 880-98964/2-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1207		mg/Kg		121	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1187		mg/Kg		119	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	127		70 - 130				
o-Terphenyl	137	S1+	70 - 130				

Lab Sample ID: LCSD 880-98964/3-A

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98964

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1241		mg/Kg		124	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1289		mg/Kg		129	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	146	S1+	70 - 130						

Lab Sample ID: 880-52592-A-28-D MS

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	998	674.0	F1	mg/Kg		68	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	790.9		mg/Kg		79	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: 880-52592-A-28-D MS

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 98964

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-52592-A-28-E MSD

Matrix: Solid

Analysis Batch: 99300

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 98964

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	<49.8	U F1	998	677.0	F1	mg/Kg		68	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	754.4		mg/Kg		76	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	98		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98896/1-A

Matrix: Solid

Analysis Batch: 98925

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			12/27/24 10:47	1

Lab Sample ID: LCS 880-98896/2-A

Matrix: Solid

Analysis Batch: 98925

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-98896/3-A

Matrix: Solid

Analysis Batch: 98925

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	255.7		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-52659-A-1-B MS

Matrix: Solid

Analysis Batch: 98925

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	358	F1	251	549.6	F1	mg/Kg		76	90 - 110

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-52659-A-1-C MSD

Matrix: Solid

Analysis Batch: 98925

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	358	F1	251	549.2	F1	mg/Kg		76	90 - 110	0	20

Lab Sample ID: MB 880-98881/1-A

Matrix: Solid

Analysis Batch: 98951

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			12/28/24 00:10	1

Lab Sample ID: LCS 880-98881/2-A

Matrix: Solid

Analysis Batch: 98951

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.1		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-98881/3-A

Matrix: Solid

Analysis Batch: 98951

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	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-52592-A-41-C MS

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.2	F1	mg/Kg		126	90 - 110

Lab Sample ID: 880-52592-A-41-D MSD

Matrix: Solid

Analysis Batch: 98951

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	106	F1	249	418.6	F1	mg/Kg		126	90 - 110	0	20

Lab Sample ID: MB 880-98882/1-A

Matrix: Solid

Analysis Batch: 99064

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			12/30/24 16:14	1

Lab Sample ID: LCS 880-98882/2-A

Matrix: Solid

Analysis Batch: 99064

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.9		mg/Kg		95	90 - 110

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-98882/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 99064											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	237.1		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-52600-2 MS				Client Sample ID: H-2 (0-0.5')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 99064											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	79.6		248	321.3		mg/Kg		98	90 - 110		

Lab Sample ID: 880-52600-2 MSD				Client Sample ID: H-2 (0-0.5')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 99064											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	79.6		248	322.3		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

GC VOA

Prep Batch: 98785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98785/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 98908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-1	H-1 (0-0.5')	Total/NA	Solid	8021B	98912
880-52600-2	H-2 (0-0.5')	Total/NA	Solid	8021B	98912
MB 880-98912/5-A	Method Blank	Total/NA	Solid	8021B	98912
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	8021B	98912
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98912
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	98912
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98912

Prep Batch: 98912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-52600-2	H-2 (0-0.5')	Total/NA	Solid	5035	
MB 880-98912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7511-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7511-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 98915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-3	H-3 (0-0.5')	Total/NA	Solid	5035	
MB 880-98915/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98915/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98915/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7515-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7515-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-4	H-4 (0-0.5')	Total/NA	Solid	8021B	98969
880-52600-5	H-5 (0-0.5')	Total/NA	Solid	8021B	98969
MB 880-98785/5-A	Method Blank	Total/NA	Solid	8021B	98785
MB 880-98969/5-A	Method Blank	Total/NA	Solid	8021B	98969
LCS 880-98969/1-A	Lab Control Sample	Total/NA	Solid	8021B	98969
LCSD 880-98969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98969
880-52663-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	98969
880-52663-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98969

Prep Batch: 98969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-52600-5	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-98969/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98969/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98969/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52663-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-52663-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

GC VOA

Analysis Batch: 99010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-52600-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-52600-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-52600-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-52600-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	

Analysis Batch: 99020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-3	H-3 (0-0.5')	Total/NA	Solid	8021B	98915
MB 880-98915/5-A	Method Blank	Total/NA	Solid	8021B	98915
LCS 880-98915/1-A	Lab Control Sample	Total/NA	Solid	8021B	98915
LCSD 880-98915/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98915
890-7515-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	98915
890-7515-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98915

GC Semi VOA

Prep Batch: 98964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-52600-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-52600-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-52600-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-52600-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-98964/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98964/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98964/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52592-A-28-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52592-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	98964
880-52600-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	98964
880-52600-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	98964
880-52600-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	98964
880-52600-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	98964
MB 880-98964/1-A	Method Blank	Total/NA	Solid	8015B NM	98964
LCS 880-98964/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98964
LCSD 880-98964/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98964
880-52592-A-28-D MS	Matrix Spike	Total/NA	Solid	8015B NM	98964
880-52592-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98964

Analysis Batch: 99430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-52600-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-52600-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-52600-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-52600-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

HPLC/IC

Leach Batch: 98881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-98881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 98882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-52600-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-98882/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52600-2 MS	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-52600-2 MSD	H-2 (0-0.5')	Soluble	Solid	DI Leach	

Leach Batch: 98896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-52600-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-98896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52659-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52659-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-4	H-4 (0-0.5')	Soluble	Solid	300.0	98896
880-52600-5	H-5 (0-0.5')	Soluble	Solid	300.0	98896
MB 880-98896/1-A	Method Blank	Soluble	Solid	300.0	98896
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	300.0	98896
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98896
880-52659-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	98896
880-52659-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98896

Analysis Batch: 98951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-1	H-1 (0-0.5')	Soluble	Solid	300.0	98881
MB 880-98881/1-A	Method Blank	Soluble	Solid	300.0	98881
LCS 880-98881/2-A	Lab Control Sample	Soluble	Solid	300.0	98881
LCSD 880-98881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98881
880-52592-A-41-C MS	Matrix Spike	Soluble	Solid	300.0	98881
880-52592-A-41-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98881

Analysis Batch: 99064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52600-2	H-2 (0-0.5')	Soluble	Solid	300.0	98882
880-52600-3	H-3 (0-0.5')	Soluble	Solid	300.0	98882
MB 880-98882/1-A	Method Blank	Soluble	Solid	300.0	98882

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QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

HPLC/IC (Continued)

Analysis Batch: 99064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-98882/2-A	Lab Control Sample	Soluble	Solid	300.0	98882
LCSD 880-98882/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98882
880-52600-2 MS	H-2 (0-0.5')	Soluble	Solid	300.0	98882
880-52600-2 MSD	H-2 (0-0.5')	Soluble	Solid	300.0	98882

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

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Lab Sample ID: 880-52600-1

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99010	12/27/24 14:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			99430	01/02/25 17:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 17:39	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98881	12/26/24 16:15	CH	EET MID
Soluble	Analysis	300.0		1			98951	12/28/24 03:06	CH	EET MID

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

Lab Sample ID: 880-52600-2

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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	98912	12/27/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98908	12/27/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99010	12/27/24 14:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			99430	01/02/25 17:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 17:56	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98882	12/26/24 16:16	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99064	12/30/24 16:32	CH	EET MID

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

Lab Sample ID: 880-52600-3

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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	98915	12/27/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99020	12/30/24 18:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99010	12/30/24 18:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99430	01/02/25 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 18:12	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98882	12/26/24 16:16	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99064	12/30/24 16:50	CH	EET MID

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

Lab Sample ID: 880-52600-4

Date Collected: 12/19/24 00:00

Matrix: Solid

Date Received: 12/23/24 12:41

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	98969	12/27/24 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/28/24 07:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99010	12/28/24 07:41	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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

Date Collected: 12/19/24 00:00

Date Received: 12/23/24 12:41

Lab Sample ID: 880-52600-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99430	01/02/25 18:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 18:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 11:23	CH	EET MID

Client Sample ID: H-5 (0-0.5')

Date Collected: 12/19/24 00:00

Date Received: 12/23/24 12:41

Lab Sample ID: 880-52600-5

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			5.01 g	5 mL	98969	12/27/24 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98922	12/28/24 08:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99010	12/28/24 08:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			99430	01/02/25 18:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98964	12/27/24 14:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99300	01/02/25 18:45	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98896	12/26/24 17:34	CH	EET MID
Soluble	Analysis	300.0		1			98925	12/27/24 11:29	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-52600-1
SDG: 2608

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52600-1	H-1 (0-0.5')	Solid	12/19/24 00:00	12/23/24 12:41
880-52600-2	H-2 (0-0.5')	Solid	12/19/24 00:00	12/23/24 12:41
880-52600-3	H-3 (0-0.5')	Solid	12/19/24 00:00	12/23/24 12:41
880-52600-4	H-4 (0-0.5')	Solid	12/19/24 00:00	12/23/24 12:41
880-52600-5	H-5 (0-0.5')	Solid	12/19/24 00:00	12/23/24 12:41

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Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee & Addison Guekler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	Granth@for.com & addisong@for.com

Work Order Comments										
Program:	UST/PT	<input type="checkbox"/> PRP	<input type="checkbox"/> Downfields	<input type="checkbox"/> RRC	<input type="checkbox"/> perfund	<input type="checkbox"/>				
State of Project:										
Reporting:	Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	ST/UST	<input type="checkbox"/>	RRP	<input type="checkbox"/>	Level IV	<input type="checkbox"/>
Deliverables:	EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:					

[illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Donny</i>	12/23/24	<i>Isabel</i>	12/23/24 12:12



880-52600 Chain of Custody

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52600-1

SDG Number: 2608

Login Number: 52600

List Number: 1

Creator: Lee, Randell

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/5/2025 3:48:57 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
Lea County, New Mexico

JOB NUMBER

880-53994-1

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
2/5/2025 3:48:57 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-53994-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea 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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1

Job ID: 880-53994-1

Eurofins Midland

Job Narrative
880-53994-1

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 2/4/2025 8:50 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 -2.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (1.5') (880-53994-1), CS-2 (1.5') (880-53994-2), SW-1 (1.5') (880-53994-3), SW-2 (1.5') (880-53994-4), SW-3 (1.5') (880-53994-5) and SW-4 (1.5') (880-53994-6).

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: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-2 (1.5') (880-53994-2). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (1.5') (880-53994-1) and (890-7623-A-9-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-101949 and analytical batch 880-101962 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 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-101949 and analytical batch 880-101962 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-101947 and analytical batch 880-101960 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-1 (1.5') (880-53994-3), SW-2 (1.5') (880-53994-4) and (890-7623-A-16-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-101947/2-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-53994-1

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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		02/04/25 09:25	02/04/25 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/04/25 09:25	02/04/25 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/04/25 09:25	02/04/25 13:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/04/25 09:25	02/04/25 13:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/04/25 09:25	02/04/25 13:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/04/25 09:25	02/04/25 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	02/04/25 09:25	02/04/25 13:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/04/25 09:25	02/04/25 13:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/04/25 13:17	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			02/04/25 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/04/25 08:18	02/04/25 12:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/04/25 08:18	02/04/25 12:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/04/25 08:18	02/04/25 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	02/04/25 08:18	02/04/25 12:09	1
o-Terphenyl	62	S1-	70 - 130	02/04/25 08:18	02/04/25 12:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		10.1		mg/Kg			02/04/25 21:33	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-53994-2

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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		02/04/25 09:25	02/04/25 13:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/04/25 09:25	02/04/25 13:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/04/25 09:25	02/04/25 13:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/04/25 09:25	02/04/25 13:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/04/25 09:25	02/04/25 13:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/04/25 09:25	02/04/25 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/04/25 09:25	02/04/25 13:38	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/04/25 09:25	02/04/25 13:38	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-53994-2

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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			02/04/25 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/04/25 12:23	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	<49.7	U	49.7		mg/Kg		02/04/25 08:18	02/04/25 12:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/04/25 08:18	02/04/25 12:23	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/04/25 08:18	02/04/25 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				02/04/25 08:18	02/04/25 12:23	1
o-Terphenyl	58	S1-	70 - 130				02/04/25 08:18	02/04/25 12:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.8		10.1		mg/Kg			02/04/25 21:38	1

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-53994-3

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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		02/04/25 09:25	02/04/25 13:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/04/25 09:25	02/04/25 13:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/04/25 09:25	02/04/25 13:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/04/25 09:25	02/04/25 13:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/04/25 09:25	02/04/25 13:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/04/25 09:25	02/04/25 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				02/04/25 09:25	02/04/25 13:58	1
1,4-Difluorobenzene (Surr)	90		70 - 130				02/04/25 09:25	02/04/25 13:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/04/25 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/04/25 13:03	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		02/04/25 08:21	02/04/25 13:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/04/25 08:21	02/04/25 13:03	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-53994-3

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/04/25 08:21	02/04/25 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				02/04/25 08:21	02/04/25 13:03	1
o-Terphenyl	63	S1-	70 - 130				02/04/25 08:21	02/04/25 13:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			02/04/25 21:44	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-53994-4

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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		02/04/25 09:25	02/04/25 14:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/04/25 09:25	02/04/25 14:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/04/25 09:25	02/04/25 14:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/04/25 09:25	02/04/25 14:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/04/25 09:25	02/04/25 14:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/04/25 09:25	02/04/25 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				02/04/25 09:25	02/04/25 14:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/04/25 09:25	02/04/25 14:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/04/25 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/04/25 13:20	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		02/04/25 08:21	02/04/25 13:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/25 08:21	02/04/25 13:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/25 08:21	02/04/25 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				02/04/25 08:21	02/04/25 13:20	1
o-Terphenyl	61	S1-	70 - 130				02/04/25 08:21	02/04/25 13:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			02/04/25 21:50	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-53994-5

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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		02/04/25 09:25	02/04/25 14:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/04/25 09:25	02/04/25 14:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/04/25 09:25	02/04/25 14:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/04/25 09:25	02/04/25 14:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/04/25 09:25	02/04/25 14:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/04/25 09:25	02/04/25 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/04/25 09:25	02/04/25 14:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/04/25 09:25	02/04/25 14:39	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			02/04/25 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	<49.9	U	49.9		mg/Kg			02/04/25 13:03	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 *+ *1	49.9		mg/Kg		02/04/25 08:24	02/04/25 13:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/04/25 08:24	02/04/25 13:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/04/25 08:24	02/04/25 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	02/04/25 08:24	02/04/25 13:03	1
o-Terphenyl	105		70 - 130	02/04/25 08:24	02/04/25 13:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			02/04/25 21:56	1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-53994-6

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/04/25 09:25	02/04/25 16:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/04/25 09:25	02/04/25 16:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/04/25 09:25	02/04/25 16:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/04/25 09:25	02/04/25 16:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/04/25 09:25	02/04/25 16:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/04/25 09:25	02/04/25 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	02/04/25 09:25	02/04/25 16:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/04/25 09:25	02/04/25 16:44	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (1.5')
Date Collected: 02/03/25 00:00
Date Received: 02/04/25 08:50

Lab Sample ID: 880-53994-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/04/25 16:44	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			02/04/25 13:20	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 ** *1	50.0		mg/Kg		02/04/25 08:24	02/04/25 13:20	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/25 08:24	02/04/25 13:20	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/25 08:24	02/04/25 13:20	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	121		70 - 130				02/04/25 08:24	02/04/25 13:20	1	
o-Terphenyl	101		70 - 130				02/04/25 08:24	02/04/25 13:20	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<10.0	U	10.0		mg/Kg			02/04/25 22:02	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea 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)
880-53985-A-1-C MS	Matrix Spike	123	104
880-53985-A-1-D MSD	Matrix Spike Duplicate	95	103
880-53994-1	CS-1 (1.5')	93	91
880-53994-2	CS-2 (1.5')	97	94
880-53994-3	SW-1 (1.5')	95	90
880-53994-4	SW-2 (1.5')	98	95
880-53994-5	SW-3 (1.5')	100	96
880-53994-6	SW-4 (1.5')	96	93
LCS 880-101953/1-A	Lab Control Sample	99	103
LCSD 880-101953/2-A	Lab Control Sample Dup	99	104
MB 880-101953/5-A	Method Blank	88	88
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53994-1	CS-1 (1.5')	73	62 S1-
880-53994-2	CS-2 (1.5')	68 S1-	58 S1-
880-53994-3	SW-1 (1.5')	75	63 S1-
880-53994-4	SW-2 (1.5')	71	61 S1-
880-53994-5	SW-3 (1.5')	128	105
880-53994-6	SW-4 (1.5')	121	101
890-7623-A-9-B MS	Matrix Spike	88	73
890-7623-A-9-C MSD	Matrix Spike Duplicate	87	72
890-7623-A-16-B MS	Matrix Spike	74	74
890-7623-A-16-C MSD	Matrix Spike Duplicate	75	74
890-7623-A-23-B MS	Matrix Spike	119	105
890-7623-A-23-C MSD	Matrix Spike Duplicate	121	109
LCS 880-101944/2-A	Lab Control Sample	82	71
LCS 880-101947/2-A	Lab Control Sample	68 S1-	71
LCS 880-101949/2-A	Lab Control Sample	104	104
LCSD 880-101944/3-A	Lab Control Sample Dup	85	73
LCSD 880-101947/3-A	Lab Control Sample Dup	71	71
LCSD 880-101949/3-A	Lab Control Sample Dup	110	100
MB 880-101944/1-A	Method Blank	81	73
MB 880-101947/1-A	Method Blank	91	84
MB 880-101949/1-A	Method Blank	117	97
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101953/5-A

Matrix: Solid

Analysis Batch: 101945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/04/25 08:29	02/04/25 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/04/25 08:29	02/04/25 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/04/25 08:29	02/04/25 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/04/25 08:29	02/04/25 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/04/25 08:29	02/04/25 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/04/25 08:29	02/04/25 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/04/25 08:29	02/04/25 11:13	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/04/25 08:29	02/04/25 11:13	1

Lab Sample ID: LCS 880-101953/1-A

Matrix: Solid

Analysis Batch: 101945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09615		mg/Kg		96	70 - 130
Toluene	0.100	0.09727		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09629		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09061		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-101953/2-A

Matrix: Solid

Analysis Batch: 101945

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101953

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09008		mg/Kg		90	70 - 130	7	35
Toluene	0.100	0.09052		mg/Kg		91	70 - 130	7	35
Ethylbenzene	0.100	0.08824		mg/Kg		88	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1733		mg/Kg		87	70 - 130	8	35
o-Xylene	0.100	0.08492		mg/Kg		85	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-53985-A-1-C MS

Matrix: Solid

Analysis Batch: 101945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.1027		mg/Kg		103	70 - 130
Toluene	<0.00198	U	0.100	0.1049		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-53985-A-1-C MS

Matrix: Solid

Analysis Batch: 101945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.100	0.1043		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2398		mg/Kg		120	70 - 130
o-Xylene	<0.00198	U	0.100	0.1159		mg/Kg		116	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	123		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 880-53985-A-1-D MSD

Matrix: Solid

Analysis Batch: 101945

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 101953

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1032		mg/Kg		103	70 - 130	1	35
Toluene	<0.00198	U	0.100	0.1012		mg/Kg		101	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.100	0.09616		mg/Kg		96	70 - 130	8	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1847		mg/Kg		92	70 - 130	26	35
o-Xylene	<0.00198	U	0.100	0.08948		mg/Kg		89	70 - 130	26	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								

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

Lab Sample ID: MB 880-101944/1-A

Matrix: Solid

Analysis Batch: 101958

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101944

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		02/04/25 08:18	02/04/25 07:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/25 08:18	02/04/25 07:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/25 08:18	02/04/25 07:38	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				02/04/25 08:18	02/04/25 07:38	1
o-Terphenyl	73		70 - 130				02/04/25 08:18	02/04/25 07:38	1

Lab Sample ID: LCS 880-101944/2-A

Matrix: Solid

Analysis Batch: 101958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	995.4		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.0		mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-101944/2-A

Matrix: Solid

Analysis Batch: 101958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101944

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: LCSD 880-101944/3-A

Matrix: Solid

Analysis Batch: 101958

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101944

			Spike	LCSD	LCSD				%Rec			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		105	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)			1000	948.1		mg/Kg		95	70 - 130	1	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	85		70 - 130									
o-Terphenyl	73		70 - 130									

Lab Sample ID: 890-7623-A-9-B MS

Matrix: Solid

Analysis Batch: 101958

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101944

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	828.6		mg/Kg		83	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	998	813.3		mg/Kg		79	70 - 130			
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	88		70 - 130									
o-Terphenyl	73		70 - 130									

Lab Sample ID: 890-7623-A-9-C MSD

Matrix: Solid

Analysis Batch: 101958

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 101944

	Sample	Sample	Spike	MSD	MSD				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	795.7		mg/Kg		80	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	792.6		mg/Kg		77	70 - 130	3	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	87		70 - 130									
o-Terphenyl	72		70 - 130									

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QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-101947/1-A

Matrix: Solid

Analysis Batch: 101960

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101947

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		02/04/25 08:21	02/04/25 08:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/25 08:21	02/04/25 08:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/25 08:21	02/04/25 08:35	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				02/04/25 08:21	02/04/25 08:35	1
o-Terphenyl	84		70 - 130				02/04/25 08:21	02/04/25 08:35	1

Lab Sample ID: LCS 880-101947/2-A

Matrix: Solid

Analysis Batch: 101960

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	855.7		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	840.0		mg/Kg		84	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	68	S1-	70 - 130				
o-Terphenyl	71		70 - 130				

Lab Sample ID: LCSD 880-101947/3-A

Matrix: Solid

Analysis Batch: 101960

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101947

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	706.6		mg/Kg		71	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	719.2		mg/Kg		72	70 - 130	15	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	71		70 - 130						
o-Terphenyl	71		70 - 130						

Lab Sample ID: 890-7623-A-16-B MS

Matrix: Solid

Analysis Batch: 101960

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101947

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	994	691.3		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	994	730.2		mg/Kg		73	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-7623-A-16-B MS

Matrix: Solid

Analysis Batch: 101960

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101947

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 890-7623-A-16-C MSD

Matrix: Solid

Analysis Batch: 101960

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 101947

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	994	700.4		mg/Kg		70	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	730.4		mg/Kg		73	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: MB 880-101949/1-A

Matrix: Solid

Analysis Batch: 101962

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101949

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		02/04/25 08:23	02/04/25 08:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/04/25 08:23	02/04/25 08:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/04/25 08:23	02/04/25 08:35	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	117		70 - 130	02/04/25 08:23	02/04/25 08:35	1
o-Terphenyl	97		70 - 130	02/04/25 08:23	02/04/25 08:35	1

Lab Sample ID: LCS 880-101949/2-A

Matrix: Solid

Analysis Batch: 101962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1055		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1046		mg/Kg		105	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	104		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-101949/3-A

Matrix: Solid

Analysis Batch: 101962

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101949

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1334	*+ *1	mg/Kg		133	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	1251		mg/Kg		125	70 - 130	18	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 890-7623-A-23-B MS

Matrix: Solid

Analysis Batch: 101962

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 101949

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	<50.0	U *+ *1	998	845.2		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	908.2		mg/Kg		91	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	119		70 - 130								
o-Terphenyl	105		70 - 130								

Lab Sample ID: 890-7623-A-23-C MSD

Matrix: Solid

Analysis Batch: 101962

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 101949

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 *+ *1	998	892.6		mg/Kg		89	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	961.4		mg/Kg		96	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	121		70 - 130								
o-Terphenyl	109		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102008/1-A

Matrix: Solid

Analysis Batch: 102012

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			02/04/25 19:04	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102008/2-A

Matrix: Solid

Analysis Batch: 102012

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	230.1		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-102008/3-A

Matrix: Solid

Analysis Batch: 102012

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	230.4		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 820-17249-A-11-D MS

Matrix: Solid

Analysis Batch: 102012

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	58.0		253	307.9		mg/Kg		99	90 - 110

Lab Sample ID: 820-17249-A-11-E MSD

Matrix: Solid

Analysis Batch: 102012

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	58.0		253	308.2		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 101945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-1	CS-1 (1.5')	Total/NA	Solid	8021B	101953
880-53994-2	CS-2 (1.5')	Total/NA	Solid	8021B	101953
880-53994-3	SW-1 (1.5')	Total/NA	Solid	8021B	101953
880-53994-4	SW-2 (1.5')	Total/NA	Solid	8021B	101953
880-53994-5	SW-3 (1.5')	Total/NA	Solid	8021B	101953
880-53994-6	SW-4 (1.5')	Total/NA	Solid	8021B	101953
MB 880-101953/5-A	Method Blank	Total/NA	Solid	8021B	101953
LCS 880-101953/1-A	Lab Control Sample	Total/NA	Solid	8021B	101953
LCSD 880-101953/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101953
880-53985-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	101953
880-53985-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	101953

Prep Batch: 101953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-53994-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-53994-3	SW-1 (1.5')	Total/NA	Solid	5035	
880-53994-4	SW-2 (1.5')	Total/NA	Solid	5035	
880-53994-5	SW-3 (1.5')	Total/NA	Solid	5035	
880-53994-6	SW-4 (1.5')	Total/NA	Solid	5035	
MB 880-101953/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101953/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101953/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53985-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-53985-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 102015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-1	CS-1 (1.5')	Total/NA	Solid	Total BTEX	
880-53994-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	
880-53994-3	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-53994-4	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-53994-5	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-53994-6	SW-4 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-53994-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-101944/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101944/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7623-A-9-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7623-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 101947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-3	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-53994-4	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 101947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101947/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101947/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7623-A-16-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7623-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 101949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-5	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-53994-6	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-101949/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101949/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7623-A-23-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7623-A-23-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	101944
880-53994-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	101944
MB 880-101944/1-A	Method Blank	Total/NA	Solid	8015B NM	101944
LCS 880-101944/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101944
LCSD 880-101944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101944
890-7623-A-9-B MS	Matrix Spike	Total/NA	Solid	8015B NM	101944
890-7623-A-9-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	101944

Analysis Batch: 101960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-3	SW-1 (1.5')	Total/NA	Solid	8015B NM	101947
880-53994-4	SW-2 (1.5')	Total/NA	Solid	8015B NM	101947
MB 880-101947/1-A	Method Blank	Total/NA	Solid	8015B NM	101947
LCS 880-101947/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101947
LCSD 880-101947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101947
890-7623-A-16-B MS	Matrix Spike	Total/NA	Solid	8015B NM	101947
890-7623-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	101947

Analysis Batch: 101962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-5	SW-3 (1.5')	Total/NA	Solid	8015B NM	101949
880-53994-6	SW-4 (1.5')	Total/NA	Solid	8015B NM	101949
MB 880-101949/1-A	Method Blank	Total/NA	Solid	8015B NM	101949
LCS 880-101949/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101949
LCSD 880-101949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101949
890-7623-A-23-B MS	Matrix Spike	Total/NA	Solid	8015B NM	101949
890-7623-A-23-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	101949

Analysis Batch: 102011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-1	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-53994-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-53994-3	SW-1 (1.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 102011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-4	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-53994-5	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-53994-6	SW-4 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-53994-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-53994-3	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-53994-4	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-53994-5	SW-3 (1.5')	Soluble	Solid	DI Leach	
880-53994-6	SW-4 (1.5')	Soluble	Solid	DI Leach	
MB 880-102008/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102008/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102008/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-17249-A-11-D MS	Matrix Spike	Soluble	Solid	DI Leach	
820-17249-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 102012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53994-1	CS-1 (1.5')	Soluble	Solid	300.0	102008
880-53994-2	CS-2 (1.5')	Soluble	Solid	300.0	102008
880-53994-3	SW-1 (1.5')	Soluble	Solid	300.0	102008
880-53994-4	SW-2 (1.5')	Soluble	Solid	300.0	102008
880-53994-5	SW-3 (1.5')	Soluble	Solid	300.0	102008
880-53994-6	SW-4 (1.5')	Soluble	Solid	300.0	102008
MB 880-102008/1-A	Method Blank	Soluble	Solid	300.0	102008
LCS 880-102008/2-A	Lab Control Sample	Soluble	Solid	300.0	102008
LCSD 880-102008/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102008
820-17249-A-11-D MS	Matrix Spike	Soluble	Solid	300.0	102008
820-17249-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	102008

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-53994-1

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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	101953	02/04/25 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101945	02/04/25 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102015	02/04/25 13:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102011	02/04/25 12:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	101944	02/04/25 08:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101958	02/04/25 12:09	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102008	02/04/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102012	02/04/25 21:33	CH	EET MID

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-53994-2

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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	101953	02/04/25 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101945	02/04/25 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102015	02/04/25 13:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102011	02/04/25 12:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101944	02/04/25 08:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101958	02/04/25 12:23	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102008	02/04/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102012	02/04/25 21:38	CH	EET MID

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-53994-3

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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	101953	02/04/25 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101945	02/04/25 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102015	02/04/25 13:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102011	02/04/25 13:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	101947	02/04/25 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101960	02/04/25 13:03	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	102008	02/04/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102012	02/04/25 21:44	CH	EET MID

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-53994-4

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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	101953	02/04/25 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101945	02/04/25 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102015	02/04/25 14:19	AJ	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-53994-4

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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			102011	02/04/25 13:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101947	02/04/25 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101960	02/04/25 13:20	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102008	02/04/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102012	02/04/25 21:50	CH	EET MID

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-53994-5

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

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	101953	02/04/25 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101945	02/04/25 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102015	02/04/25 14:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102011	02/04/25 13:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	101949	02/04/25 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101962	02/04/25 13:03	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102008	02/04/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102012	02/04/25 21:56	CH	EET MID

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-53994-6

Date Collected: 02/03/25 00:00

Matrix: Solid

Date Received: 02/04/25 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	101953	02/04/25 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	101945	02/04/25 16:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102015	02/04/25 16:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102011	02/04/25 13:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	101949	02/04/25 08:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	101962	02/04/25 13:20	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102008	02/04/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102012	02/04/25 22:02	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-53994-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53994-1	CS-1 (1.5')	Solid	02/03/25 00:00	02/04/25 08:50
880-53994-2	CS-2 (1.5')	Solid	02/03/25 00:00	02/04/25 08:50
880-53994-3	SW-1 (1.5')	Solid	02/03/25 00:00	02/04/25 08:50
880-53994-4	SW-2 (1.5')	Solid	02/03/25 00:00	02/04/25 08:50
880-53994-5	SW-3 (1.5')	Solid	02/03/25 00:00	02/04/25 08:50
880-53994-6	SW-4 (1.5')	Solid	02/03/25 00:00	02/04/25 08:50

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Chain of Custody



880-53994 Chain of Custody

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee & Addison Guekler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@for.com & addisona@for.com

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

Project Name:		Paloma 21 Federal Battery (12.11.24)		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	2608	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush													None: NO	DI Water: H ₂ O			
Project Location	Lea County, New Mexico	Due Date:	72 hr													Cool: Cool	MeOH: Me			
Sampler's Name:	CRM													HCL: HC	HNO ₃ : HN					
PO #:														H ₂ SO ₄ : H ₂	NaOH: Na					
SAMPLE RECEIPT		Temp Blank:	Yes	No	Well Ice:	Yes	No	Parameters								H ₃ PO ₄ : HP				
Received Intact:	Yes	No	Thermometer ID:													NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes	No	Correction Factor:													Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	Yes	No	Temperature Reading:													Zn Acetate+NaOH: Zn				
Total Containers:			Corrected Temperature:													NaOH+Ascorbic Acid: SAPC				
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
CS-1 (1.5')		2/3/2025		X		C	1	X	X	X										
CS-2 (1.5')		2/3/2025		X		C	1	X	X	X										
SW-1 (1.5')		2/3/2025		X		C	1	X	X	X										
SW-2 (1.5')		2/3/2025		X		C	1	X	X	X										
SW-3 (1.5')		2/3/2025		X		C	1	X	X	X										
SW-4 (1.5')		2/3/2025		X		C	1	X	X	X										

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			2/4/25 550

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-53994-1
SDG Number: Lea County, New Mexico

Login Number: 53994

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/7/2025 2:23:46 PM

JOB DESCRIPTION

Paloma 21 Federal Battery (12.11.24)
Lea County, New Mexico

JOB NUMBER

880-54143-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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



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2/7/2025 2:23:46 PM

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

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Laboratory Job ID: 880-54143-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea 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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1

Job ID: 880-54143-1

Eurofins Midland

Job Narrative 880-54143-1

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 2/6/2025 10:30 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 -1.7°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: Lazy Ace Land farm Pit (880-54143-1).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: Lazy Ace Land farm Pit (880-54143-1), (CCV 880-102138/20), (LCS 880-102164/1-A), (880-54102-A-1-F) and (880-54102-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (880-54131-A-1-E MS) and (880-54131-A-1-F MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102119 and analytical batch 880-102154 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: Lazy Ace Land farm Pit (880-54143-1) and (880-54131-A-1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-102119 and analytical batch 880-102154 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.

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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

Client Sample ID: Lazy Ace Land farm Pit

Lab Sample ID: 880-54143-1

Date Collected: 02/05/25 00:00

Matrix: Solid

Date Received: 02/06/25 10:30

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		02/06/25 11:00	02/06/25 13:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 13:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 13:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/06/25 11:00	02/06/25 13:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 11:00	02/06/25 13:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/06/25 11:00	02/06/25 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	02/06/25 11:00	02/06/25 13:04	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/06/25 11:00	02/06/25 13:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/06/25 13:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/06/25 13:47	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		02/06/25 11:10	02/06/25 13:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/06/25 11:10	02/06/25 13:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/25 11:10	02/06/25 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	02/06/25 11:10	02/06/25 13:47	1
o-Terphenyl	60	S1-	70 - 130	02/06/25 11:10	02/06/25 13:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.6		9.96		mg/Kg			02/07/25 11:02	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea 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)
880-54102-A-1-D MS	Matrix Spike	128	79
880-54102-A-1-E MSD	Matrix Spike Duplicate	140 S1+	79
880-54143-1	Lazy Ace Land farm Pit	148 S1+	81
LCS 880-102164/1-A	Lab Control Sample	132 S1+	83
LCSD 880-102164/2-A	Lab Control Sample Dup	129	83
MB 880-102164/5-A	Method Blank	127	76
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)
880-54131-A-1-E MS	Matrix Spike	67 S1-	68 S1-
880-54131-A-1-F MSD	Matrix Spike Duplicate	69 S1-	67 S1-
880-54143-1	Lazy Ace Land farm Pit	70	60 S1-
LCS 880-102119/2-A	Lab Control Sample	74	77
LCSD 880-102119/3-A	Lab Control Sample Dup	74	76
MB 880-102119/1-A	Method Blank	99	92
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102164/5-A

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/25 09:41	02/06/25 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/06/25 09:41	02/06/25 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	02/06/25 09:41	02/06/25 11:41	1
1,4-Difluorobenzene (Surr)	76		70 - 130	02/06/25 09:41	02/06/25 11:41	1

Lab Sample ID: LCS 880-102164/1-A

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102164

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1192		mg/Kg		119	70 - 130
Toluene	0.100	0.1042		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2260		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-102164/2-A

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102164

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1149		mg/Kg		115	70 - 130	4	35
Toluene	0.100	0.1060		mg/Kg		106	70 - 130	2	35
Ethylbenzene	0.100	0.1095		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2274		mg/Kg		114	70 - 130	1	35
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 880-54102-A-1-D MS

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09874		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.0998	0.09860		mg/Kg		99	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-54102-A-1-D MS

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102164

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2121		mg/Kg		106	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1070		mg/Kg		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 880-54102-A-1-E MSD

Matrix: Solid

Analysis Batch: 102138

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 102164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1171		mg/Kg		118	70 - 130	17	35
Toluene	<0.00200	U	0.0996	0.1012		mg/Kg		102	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.1052		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2207		mg/Kg		111	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.1104		mg/Kg		111	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

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

Lab Sample ID: MB 880-102119/1-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102119

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		02/05/25 20:21	02/06/25 05:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/05/25 20:21	02/06/25 05:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/05/25 20:21	02/06/25 05:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	02/05/25 20:21	02/06/25 05:08	1
o-Terphenyl	92		70 - 130	02/05/25 20:21	02/06/25 05:08	1

Lab Sample ID: LCS 880-102119/2-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	898.4		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.2		mg/Kg		91	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-102119/2-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102119

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: LCSD 880-102119/3-A

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	752.0		mg/Kg		75	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	764.9		mg/Kg		76	70 - 130	17	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 880-54131-A-1-E MS

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 102119

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 F1	999	668.6	F1	mg/Kg		67	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	659.9	F1	mg/Kg		66	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	67	S1-	70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 880-54131-A-1-F MSD

Matrix: Solid

Analysis Batch: 102154

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 102119

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 F1	999	693.7	F1	mg/Kg		69	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	648.8	F1	mg/Kg		65	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102227/1-A

Matrix: Solid

Analysis Batch: 102265

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			02/07/25 09:18	1

Lab Sample ID: LCS 880-102227/2-A

Matrix: Solid

Analysis Batch: 102265

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-102227/3-A

Matrix: Solid

Analysis Batch: 102265

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	257.6		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-54143-1 MS

Matrix: Solid

Analysis Batch: 102265

Client Sample ID: Lazy Ace Land farm Pit

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	27.6		249	294.5		mg/Kg		107	90 - 110

Lab Sample ID: 880-54143-1 MSD

Matrix: Solid

Analysis Batch: 102265

Client Sample ID: Lazy Ace Land farm Pit

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	27.6		249	294.7		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 102138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1	Lazy Ace Land farm Pit	Total/NA	Solid	8021B	102164
MB 880-102164/5-A	Method Blank	Total/NA	Solid	8021B	102164
LCS 880-102164/1-A	Lab Control Sample	Total/NA	Solid	8021B	102164
LCSD 880-102164/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102164
880-54102-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	102164
880-54102-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	102164

Prep Batch: 102164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1	Lazy Ace Land farm Pit	Total/NA	Solid	5035	
MB 880-102164/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102164/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54102-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-54102-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 102286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1	Lazy Ace Land farm Pit	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1	Lazy Ace Land farm Pit	Total/NA	Solid	8015NM Prep	
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54131-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-54131-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1	Lazy Ace Land farm Pit	Total/NA	Solid	8015B NM	102119
MB 880-102119/1-A	Method Blank	Total/NA	Solid	8015B NM	102119
LCS 880-102119/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102119
LCSD 880-102119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102119
880-54131-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	102119
880-54131-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	102119

Analysis Batch: 102281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1	Lazy Ace Land farm Pit	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1	Lazy Ace Land farm Pit	Soluble	Solid	DI Leach	
MB 880-102227/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102227/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102227/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 102227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1 MS	Lazy Ace Land farm Pit	Soluble	Solid	DI Leach	
880-54143-1 MSD	Lazy Ace Land farm Pit	Soluble	Solid	DI Leach	

Analysis Batch: 102265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54143-1	Lazy Ace Land farm Pit	Soluble	Solid	300.0	102227
MB 880-102227/1-A	Method Blank	Soluble	Solid	300.0	102227
LCS 880-102227/2-A	Lab Control Sample	Soluble	Solid	300.0	102227
LCSD 880-102227/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102227
880-54143-1 MS	Lazy Ace Land farm Pit	Soluble	Solid	300.0	102227
880-54143-1 MSD	Lazy Ace Land farm Pit	Soluble	Solid	300.0	102227

Lab Chronicle

Client: Carmona Resources
Project/Site: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

Client Sample ID: Lazy Ace Land farm Pit
Date Collected: 02/05/25 00:00
Date Received: 02/06/25 10:30

Lab Sample ID: 880-54143-1
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	102164	02/06/25 11:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102138	02/06/25 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102286	02/06/25 13:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102281	02/06/25 13:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102119	02/06/25 11:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102154	02/06/25 13:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102227	02/07/25 07:50	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102265	02/07/25 11:02	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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea 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: Paloma 21 Federal Battery (12.11.24)

Job ID: 880-54143-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-54143-1	Lazy Ace Land farm Pit	Solid	02/05/25 00:00	02/06/25 10:30

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

Project Manager:	Cornier Moeching	Bill to: (if different)	Grant Huckabay & Addison Guekler
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@for.com & addison@for.com

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

880-541 43 Chain of Custody

[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-54143-1
SDG Number: Lea County, New Mexico

Login Number: 54143

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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 441243

QUESTIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 441243
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434753966
Incident Name	NAPP2434753966 PALOMA 21 FEDERAL BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2212445893] Paloma Battery

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

Site Name	PALOMA 21 FEDERAL BATTERY
Date Release Discovered	12/11/2024
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 Other (Specify) Produced Water Released: 75 BBL Recovered: 30 BBL Lost: 45 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	bad mechanical seal on water transfer pump

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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 441243

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 441243
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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: Addison Long Email: addisonl@forl.com Date: 12/13/2024
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------

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

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 441243

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID:
	151416
	Action Number:
	441243
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 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	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report 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.	
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)	9080
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1460
GRO+DRO (EPA SW-846 Method 8015M)	1180
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/03/2025
On what date will (or did) the final sampling or liner inspection occur	02/03/2025
On what date will (or was) the remediation complete(d)	02/05/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	225
What is the estimated volume (in cubic yards) that will be remediated	25

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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General Information
Phone: (505) 629-6116

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

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 441243

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 441243
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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: Addison Long Email: addisonl@forl.com Date: 03/11/2025
<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 441243

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 441243
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 441243

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 441243
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	427048
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/03/2025
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	422

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	225
What was the total volume (cubic yards) remediated	25
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	not any

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Addison Long Email: addisonl@forl.com Date: 03/11/2025
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 7

Action 441243

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 441243
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 441243

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 441243
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	4/2/2025