

APPROVED

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Falcon Federal 001 (03.08.23)
Incident #NAPP2308234964
Lea County, New Mexico
Unit E Sec 09 T19S R32E
32.6775°, -103.7775°

Crude Oil Release
Point of Release: Packing Malfunction
Release Date: 03.08.2023
Volume Released: 5 Barrels of Crude Oil
Volume Recovered: 0 Barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
Concho Operating, LLC
15 West London Road
Loving, New Mexico 88256

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

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

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1	OVERVIEW	FIGURE 2	TOPOGRAPHIC
FIGURE 3	SAMPLE LOCATION	FIGURE 4	EXCAVATION

APPENDICES

APPENDIX A	TABLES
APPENDIX B	PHOTOS
APPENDIX C	INITIAL C-141 AND FINAL/NMOCD CORRESPONDENCE
APPENDIX D	SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E	LABORATORY REPORTS

May 30, 2023

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

**Re: Closure Report
Falcon Federal 001 (03.08.23)
Concho Operating, LLC
Site Location: Unit E, S09, T19S, R32E
(Lat 32.6775°, Long -103.7775°)
Lea County, New Mexico**

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Falcon Federal 001 (03.08.23). The site is located at 32.6775°, -103.7775° within Unit E, S09, T19S, R32E, and 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 March 8, 2023, caused by a packing malfunction. It released approximately five (5) barrels of crude oil, and zero (0) barrels of crude oil were recovered. The impacted area occurred on the pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, two known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.13 miles West of the site in S8, T19S, R32E and was drilled in 1958. The well has a reported depth to groundwater of 365.30' feet below the ground surface (ft bgs). The other well inside the half-mile radius is approximately 0.33 miles West of the site in S8, T19S, R32E and was drilled in 1958. The well has a reported depth to groundwater of 368.30' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

On March 30, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical and horizontal extent, three (3) sample points (S-1 through S-3) and four (4) horizontal points (H-1 through H-4) were advanced to depths ranging from the surface to 3.0' bgs inside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. 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.

See Table 1 for the analytical results.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on April 17, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 and S-2 was excavated to a depth of 0.5' to remove all the impacted soils. The area of S-3 was below the regulatory and reclamation requirements for TPH, BTEX, and chloride. A total of nine (9) floor confirmation samples were collected (CS-1 through CS-9), and ten (10) sidewall samples (SW-1 through SW-10) 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 4500/300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 70 cubic yards of material were 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. The final C-141 is attached, and COG formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

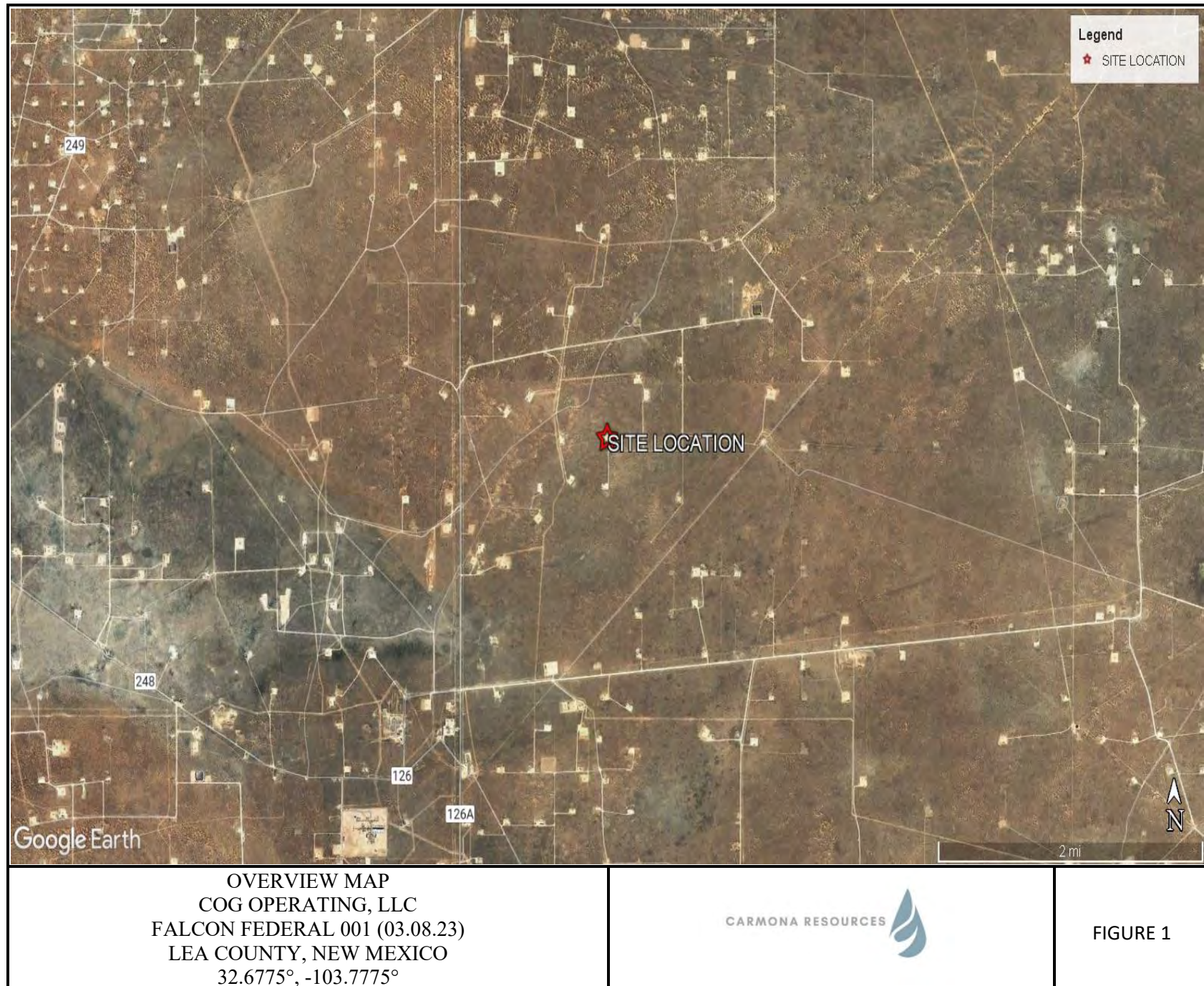
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



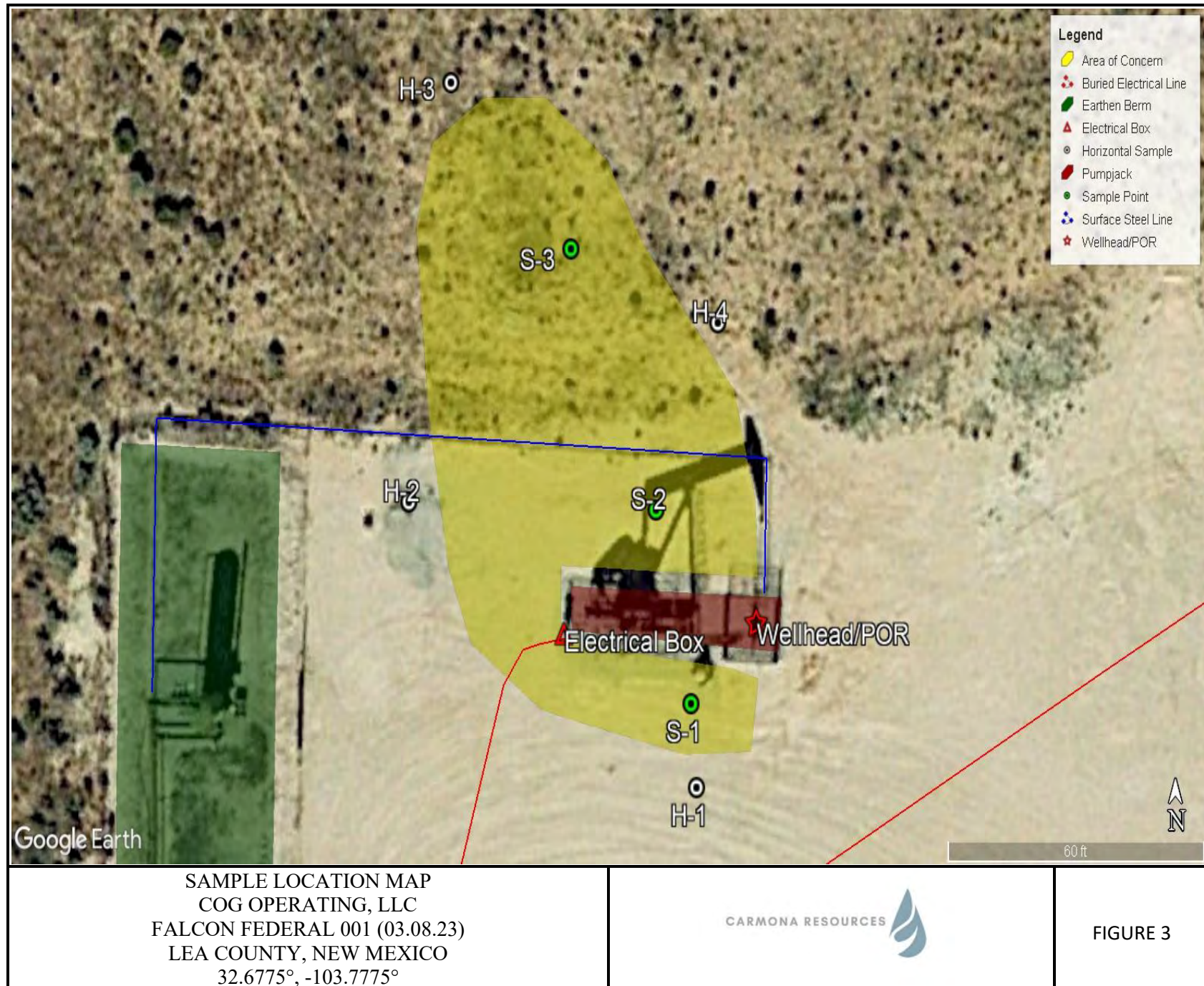


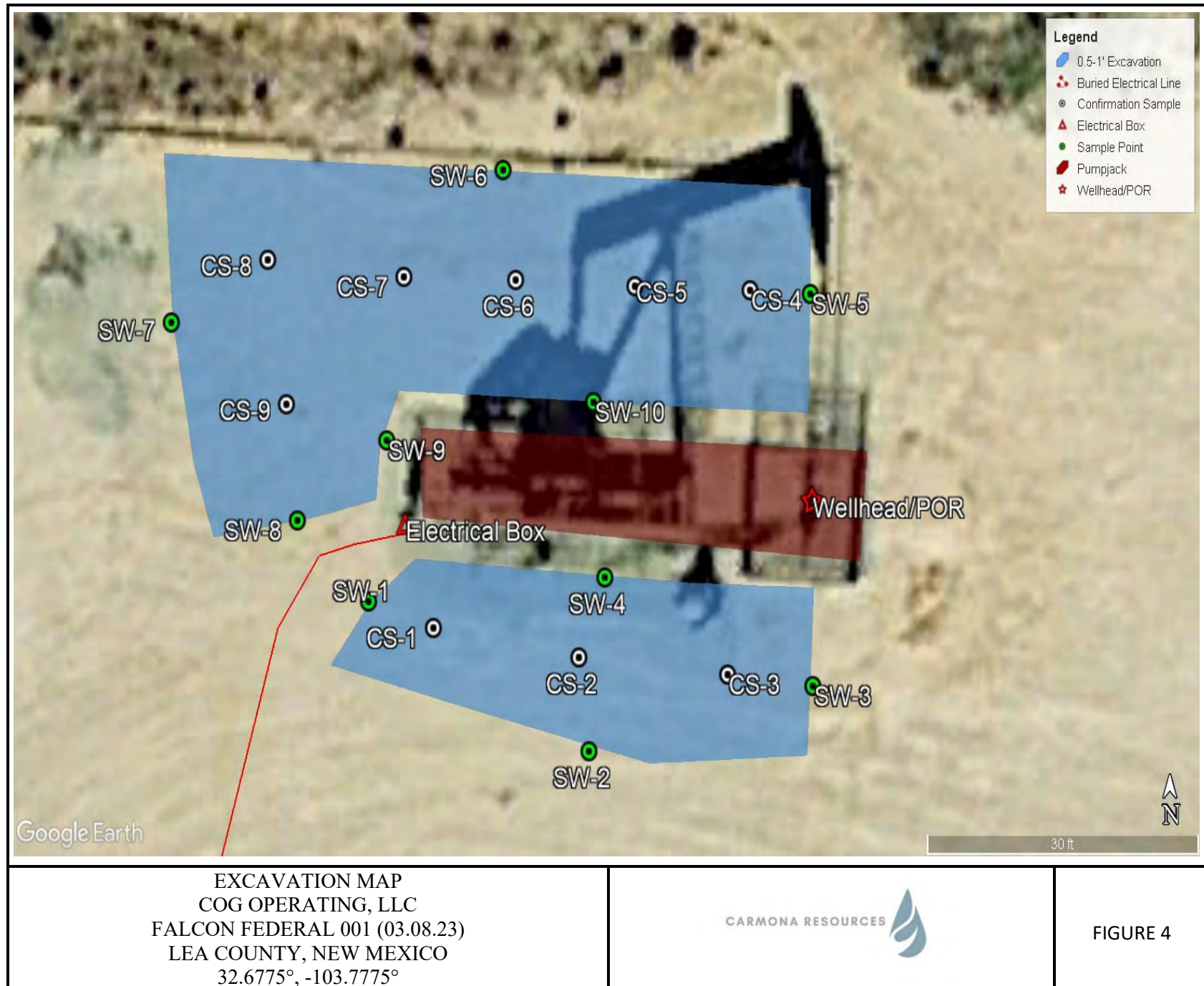


TOPOGRAPHIC MAP
 COG OPERATING, LLC
 FALCON FEDERAL 001 (03.08.23)
 LEA COUNTY, NEW MEXICO
 32.6775°, -103.7775°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
Conoco Phillips
Falcon Federal 001 (03.08.2023)
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						
S-1	3/30/2023	0-0.25	<49.9	146	<49.9	146	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	170
	"	0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	117
	"	1.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	74.6
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	0.00696	<0.00199	<0.00398	0.00696	54.7
S-2	3/30/2023	0-0.25	347	1,170	<49.9	1,520	<0.0399	0.107	2.12	4.44	6.67	80.0
	"	0.5	<50.0	74.4	<50.0	74.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	102
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	140
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	260
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	379
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	535
S-3	3/30/2023	0-0.25	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	61.8
	"	0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	145
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	193
	"	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	138
H-1	3/30/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	100
H-2	3/30/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	62.2
H-3	3/30/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	70.7
H-4	3/30/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	236
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) - Sample Point

(H) - Horizontal Sample

 Removed

Table 2
Conoco Phillips
Falcon Federal 001 (03.08.2023)
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	4/19/2023	0.5'	<50.0	146	<50.0	146	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	323
	4/24/2023	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-2	4/19/2023	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	285
CS-3	4/19/2023	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	275
CS-4	4/19/2023	0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	345
CS-5	4/19/2023	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	265
CS-6	4/19/2023	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	293
CS-7	4/19/2023	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	413
CS-8	4/19/2023	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	412
CS-9	4/19/2023	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	485
SW-1	4/19/2023	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	606
	4/24/2023	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	4/19/2023	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	404
SW-3	4/19/2023	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,540
	4/24/2023	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	4/19/2023	0.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	505
SW-5	4/19/2023	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	379
SW-6	4/19/2023	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	391
SW-7	4/19/2023	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	636
	4/24/2023	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-8	4/19/2023	0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	396
SW-9	4/19/2023	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	798
	4/24/2023	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-10	4/19/2023	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	274
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 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

 Removed

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

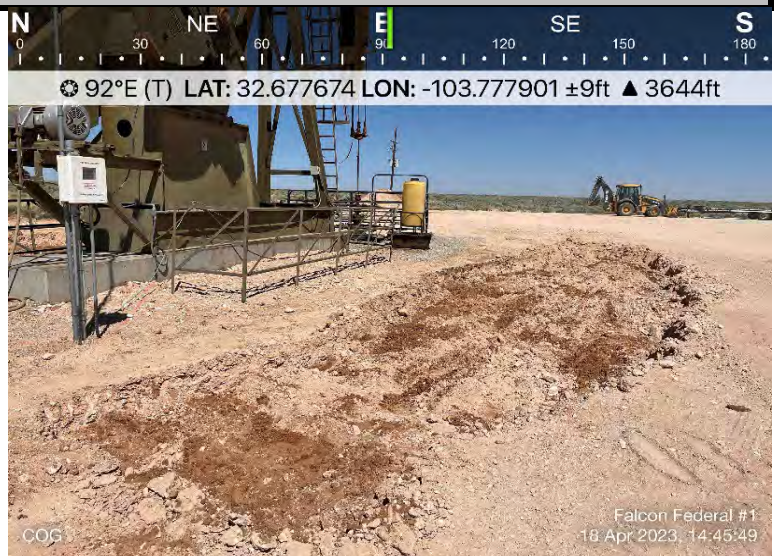
Photograph No. 1

Facility: Falcon Federal 001 (03.08.23)

County: Lea County, New Mexico

Description:

View East, area of CS-1 through CS-3.



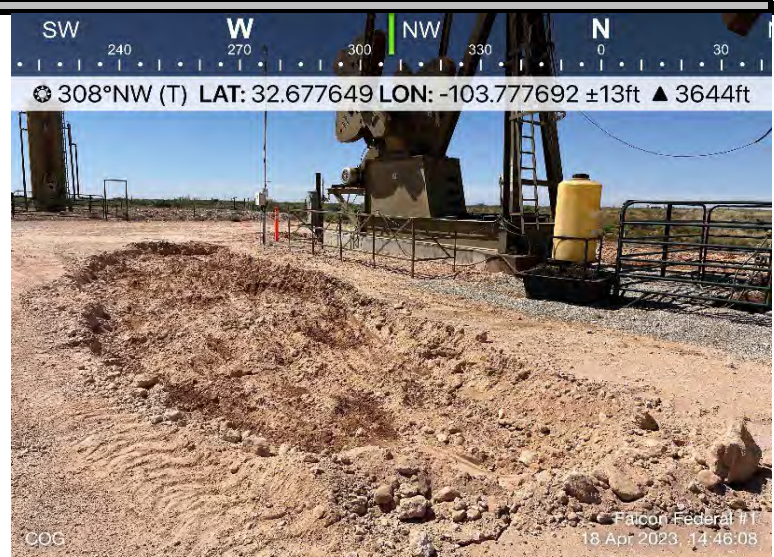
Photograph No. 2

Facility: Falcon Federal 001 (03.08.23)

County: Lea County, New Mexico

Description:

View Northwest, area of CS-1 through CS-3.



Photograph No. 3

Facility: Falcon Federal 001 (03.08.23)

County: Lea County, New Mexico

Description:

View North, area of CS-4 through CS-9.



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Falcon Federal 001 (03.08.23)

County: Lea County, New Mexico

Description:

View Southeast, area of CS-4 through CS-9.



Photograph No. 5

Facility: Falcon Federal 001 (03.08.23)

County: Lea County, New Mexico

Description:

View Northwest, area of CS-8 through CS-9.



APPENDIX C

CARMONA RESOURCES



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.	
☐ The impacted area has been secured to protect human health and the environment.	
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. 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 attach all information needed for closure evaluation.	
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.	
Printed Name _____	Title: _____
Signature: <u></u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>03/23/2023</u>

Spill Calculation - Subsurface Spill - Rectangle								Remediation Recommendation	
								Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Current Rule of Thumb - RMR Handover Volume, (yd ³ .)
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	750	
Rectangle A	25.0	31.0	2.0	On-Pad ✓	10.50%	22.99	2.41		5.98
Rectangle B	130.0	20.0	0.5	Off-Pad ✓	13.69%	19.28	2.64		5.02
Rectangle C				Off-Pad ✓	13.69%	0.00	0.00		0.00
Rectangle D				Off-Pad ✓	13.69%	0.00	0.00		0.00
Rectangle E				Off-Pad ✓	13.69%	0.00	0.00		0.00
Rectangle F				✓		0.00			0.00
Rectangle G				✓		0.00			0.00
Rectangle H				✓		0.00			0.00
Rectangle I				✓		0.00			0.00
Rectangle J				✓		0.00			0.00
Total Subsurface Volume Released:							5.0540	11.00	BU

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

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

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

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

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

CONDITIONS

Action 200121

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 200121
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/23/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Printed Name: _____ Title: _____

Signature: Jaques Herib Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

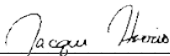
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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.

Printed Name: _____ Title: _____

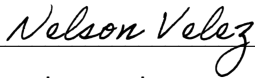
Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 08/18/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

From: Enviro, OCD, EMNRD
Sent: Monday, April 17, 2023 5:04 PM
To: Conner Moehring
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] COG - Falcon Federal 001 (03.08.23) - Sampling Notification

Conner,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Monday, April 17, 2023 7:26 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Jacqui.Harris@conocophillips.com
Subject: [EXTERNAL] COG - Falcon Federal 001 (03.08.23) - Sampling Notification

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

Good Morning,

On behalf of COG, Carmona Resources will collect confirmation samples for the below site on 04/19/23 around 1:00 p.m. Please let me know if you have any questions.

COG - Falcon Federal 001 (03.08.23)
NAPP2308234964
Sec 09 T19S R32E Unit E
32.6775, -103.7775
Lea County, New Mexico

Conner R. Moehring
310 West Wall Street, Suite 500
Midland Texas, 79701
M: 432-813-6823
Cmoehring@carmonaresources.com



APPENDIX D

CARMONA RESOURCES



Nearest water well

COG Operating

Legend

- 0.13 Miles
- 0.33 Miles
- 0.50 Mile Radius
- Falcon Federal #1 (03.08.2023)
- USGS Water Well



Low Karst

COG Operating

Legend

- Falcon Federal #1 (03.08.2023)
- Low

Falcon Federal #1 (03.08.2023)



3 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01656 POD1	CP	LE		3	4	3	17	19S	32E	613368	3613646	2840	70		
CP 01656 POD2	CP	LE		3	4	3	17	19S	32E	613364	3613648	2841	70		
CP 01656 POD3	CP	LE		3	4	3	17	19S	32E	613374	3613633	2850	30		
CP 01938 POD1	CP	LE		1	4	1	32	18S	32E	613277	3619332	3391	51		
CP 00640 POD1	CP	LE			2	2	19	19S	32E	612621	3613280*	3532	260	102	158
CP 00639 POD1	CP	LE			3	1	20	19S	32E	613029	3612880*	3678	350	345	5
CP 00563 POD1	CP	LE		1	1	2	19	19S	32E	612118	3613376*	3763	300		

Average Depth to Water: **223 feet**

Minimum Depth: **102 feet**

Maximum Depth: **345 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 614597

Northing (Y): 3616208

Radius: 4000

*UTM location was derived from PLSS - see Help

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

3/22/23 8:39 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324040103464801

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

USGS 324040103464801 19S.32E.08.22411

Lea County, New Mexico
Latitude 32°40'40", Longitude 103°46'48" NAD27
Land-surface elevation 3,640 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

[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
1958-12-09			D	62610	3273.14	NGVD29	1	Z		
1958-12-09			D	62611	3274.70	NAVD88	1	Z		
1958-12-09			D	72019	365.30		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

Section	Code	Description
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.

[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

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



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2023-03-22 22:40:45 EDT
0.27 0.23 nadww01

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
				Groundwater	New Mexico	GO	

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324046103464101

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

USGS 324046103464101 19S.32E.08.2

Lea County, New Mexico
Latitude 32°40'42", Longitude 103°47'00" NAD27
Land-surface elevation 3,640 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national 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
1958-12-10		D	62610		3271.70	NGVD29	1	O	USGS	
1958-12-10		D	62611		3273.26	NAVD88	1	O	USGS	
1958-12-10		D	72019	368.30			1	O	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	O	Observed.

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	? S
------	------	---	------------------------	---	---	---------------------------------	--------

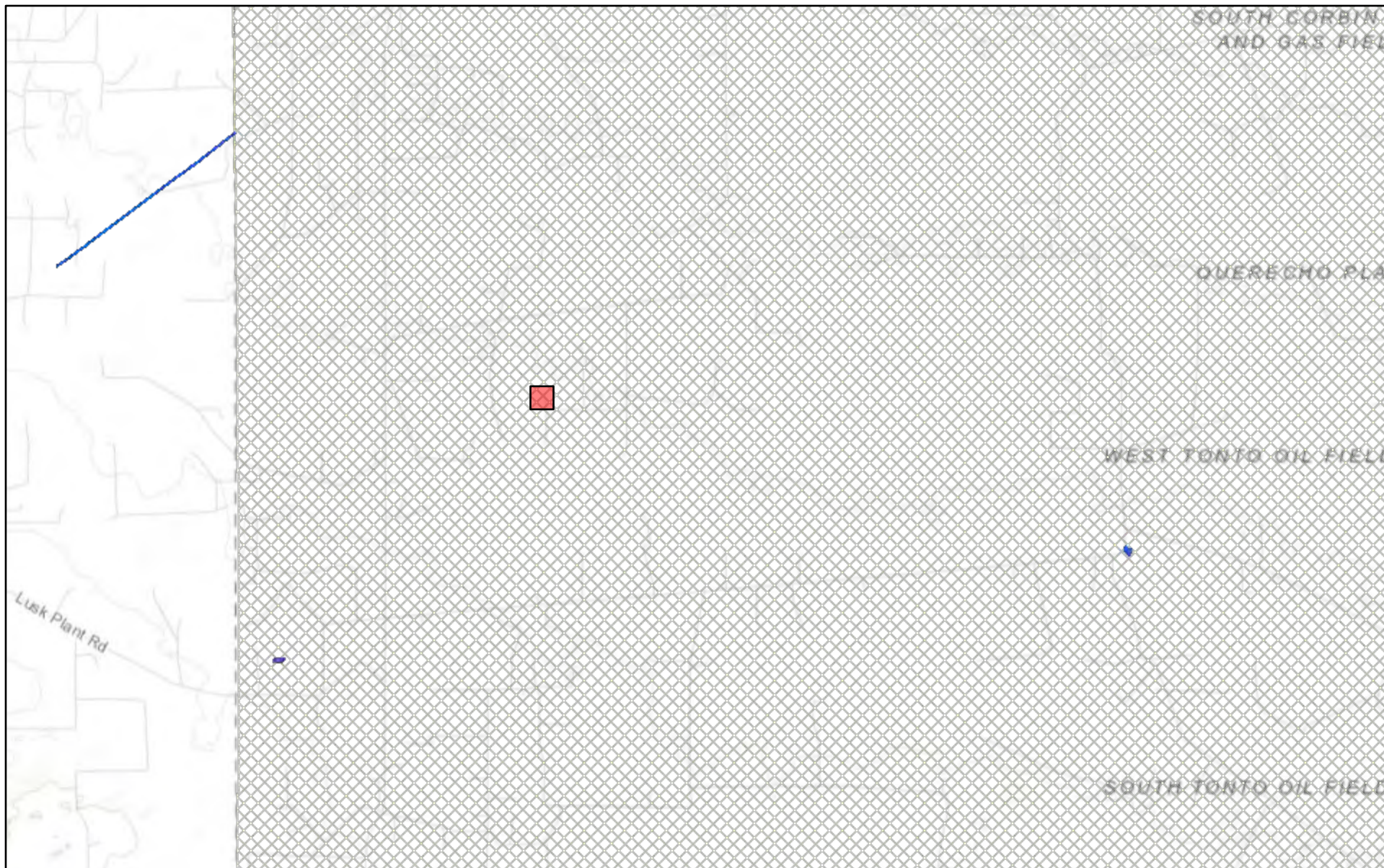
[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

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

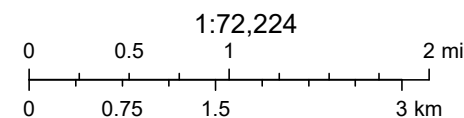


Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2023-03-22 22:41:48 EDT
0.3 0.25 nadww02

New Mexico NFHL Data



March 22, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

APPENDIX E

CARMONA RESOURCES





Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Carmona
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 4/5/2023 10:58:05 AM

JOB DESCRIPTION

Falcon Federal 001 (03.08.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-26648-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland**Job Notes**

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

Authorization

Generated
4/5/2023 10:58:05 AM

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

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Laboratory Job ID: 880-26648-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	26
Lab Chronicle	30
Certification Summary	35
Method Summary	36
Sample Summary	37
Chain of Custody	38
Receipt Checklists	40

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Job ID: 880-26648-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-26648-1****Receipt**

The samples were received on 3/31/2023 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.5°C

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-50191 and analytical batch 880-50285 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.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-50084 and analytical batch 880-50093 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50109 and analytical batch 880-50197 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. S-2 (2') (880-26648-9), S-2 (3') (880-26648-10), S-3 (0-0.25') (880-26648-11), S-3 (0.5') (880-26648-12), S-3 (1') (880-26648-13), S-3 (1.5') (880-26648-14), (880-26648-A-9-C MS) and (880-26648-A-9-D MSD)

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

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-0.25')

Lab Sample ID: 880-26648-1

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 17:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 17:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 17:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/03/23 09:52	04/04/23 17:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 17:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/03/23 09:52	04/04/23 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/03/23 09:52	04/04/23 17:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/03/23 09:52	04/04/23 17:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	146		49.9		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 01:52	1
Diesel Range Organics (Over C10-C28)	146		49.9		mg/Kg		04/01/23 09:23	04/03/23 01:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	04/01/23 09:23	04/03/23 01:52	1
o-Terphenyl	93		70 - 130	04/01/23 09:23	04/03/23 01:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		4.98		mg/Kg			04/03/23 19:38	1

Client Sample ID: S-1 (0.5')

Lab Sample ID: 880-26648-2

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 18:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 18:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 18:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/03/23 09:52	04/04/23 18:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 18:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/03/23 09:52	04/04/23 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/03/23 09:52	04/04/23 18:20	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/03/23 09:52	04/04/23 18:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0.5')

Lab Sample ID: 880-26648-2

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 02:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 02:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/01/23 09:23	04/03/23 02:13	1
o-Terphenyl	88		70 - 130				04/01/23 09:23	04/03/23 02:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.03		mg/Kg			04/03/23 19:43	1

Client Sample ID: S-1 (1')

Lab Sample ID: 880-26648-3

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 18:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 18:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 18:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/03/23 09:52	04/04/23 18:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 18:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 09:52	04/04/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/03/23 09:52	04/04/23 18:40	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/03/23 09:52	04/04/23 18:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 02:34	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1')

Lab Sample ID: 880-26648-3

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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		04/01/23 09:23	04/03/23 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/01/23 09:23	04/03/23 02:34	1
o-Terphenyl	88		70 - 130				04/01/23 09:23	04/03/23 02:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.6		5.04		mg/Kg			04/03/23 19:47	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-26648-4

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 19:01	1
Toluene	0.00696		0.00199		mg/Kg		04/03/23 09:52	04/04/23 19:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/03/23 09:52	04/04/23 19:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 19:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 09:52	04/04/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				04/03/23 09:52	04/04/23 19:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130				04/03/23 09:52	04/04/23 19:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00696		0.00398		mg/Kg			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 02:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 02:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				04/01/23 09:23	04/03/23 02:56	1
o-Terphenyl	90		70 - 130				04/01/23 09:23	04/03/23 02:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.7		5.00		mg/Kg			04/03/23 20:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (0-0.25')

Lab Sample ID: 880-26648-5

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0399	U	0.0399		mg/Kg		04/03/23 09:52	04/04/23 21:04	20
Toluene	0.107		0.0399		mg/Kg		04/03/23 09:52	04/04/23 21:04	20
Ethylbenzene	2.12		0.0399		mg/Kg		04/03/23 09:52	04/04/23 21:04	20
m-Xylene & p-Xylene	2.53		0.0798		mg/Kg		04/03/23 09:52	04/04/23 21:04	20
o-Xylene	1.91		0.0399		mg/Kg		04/03/23 09:52	04/04/23 21:04	20
Xylenes, Total	4.44		0.0798		mg/Kg		04/03/23 09:52	04/04/23 21:04	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/03/23 09:52	04/04/23 21:04	20
1,4-Difluorobenzene (Surr)	87		70 - 130	04/03/23 09:52	04/04/23 21:04	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.67		0.0798		mg/Kg			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1520		49.9		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	347		49.9		mg/Kg		04/01/23 09:23	04/03/23 03:17	1
Diesel Range Organics (Over C10-C28)	1170		49.9		mg/Kg		04/01/23 09:23	04/03/23 03:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/01/23 09:23	04/03/23 03:17	1
o-Terphenyl	91		70 - 130	04/01/23 09:23	04/03/23 03:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.0		4.97		mg/Kg			04/03/23 20:07	1

Client Sample ID: S-2 (0.5')

Lab Sample ID: 880-26648-6

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 19:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 19:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 19:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/03/23 09:52	04/04/23 19:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 19:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/03/23 09:52	04/04/23 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/03/23 09:52	04/04/23 19:21	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/03/23 09:52	04/04/23 19:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (0.5')

Lab Sample ID: 880-26648-6

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.4		50.0		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 03:39	1
Diesel Range Organics (Over C10-C28)	74.4		50.0		mg/Kg		04/01/23 09:23	04/03/23 03:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				04/01/23 09:23	04/03/23 03:39	1
o-Terphenyl	89		70 - 130				04/01/23 09:23	04/03/23 03:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.98		mg/Kg			04/03/23 20:12	1

Client Sample ID: S-2 (1')

Lab Sample ID: 880-26648-7

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 19:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 19:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 19:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/03/23 09:52	04/04/23 19:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 19:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/03/23 09:52	04/04/23 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				04/03/23 09:52	04/04/23 19:42	1
1,4-Difluorobenzene (Surr)	106		70 - 130				04/03/23 09:52	04/04/23 19:42	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			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 04:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 04:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1')

Lab Sample ID: 880-26648-7

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/01/23 09:23	04/03/23 04:01	1
o-Terphenyl	100		70 - 130				04/01/23 09:23	04/03/23 04:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.01		mg/Kg			04/03/23 20:16	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-26648-8

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/03/23 09:52	04/04/23 20:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/03/23 09:52	04/04/23 20:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/03/23 09:52	04/04/23 20:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/03/23 09:52	04/04/23 20:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/03/23 09:52	04/04/23 20:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/03/23 09:52	04/04/23 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				04/03/23 09:52	04/04/23 20:02	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/03/23 09:52	04/04/23 20:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 04:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 04:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 04:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				04/01/23 09:23	04/03/23 04:22	1
o-Terphenyl	86		70 - 130				04/01/23 09:23	04/03/23 04:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		4.99		mg/Kg			04/03/23 20:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (2')

Lab Sample ID: 880-26648-9

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 20:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 20:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 20:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/03/23 09:52	04/04/23 20:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 09:52	04/04/23 20:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 09:52	04/04/23 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/03/23 09:52	04/04/23 20:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/03/23 09:52	04/04/23 20:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 04:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 04:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/03/23 04:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/01/23 09:23	04/03/23 04:43	1
o-Terphenyl	88		70 - 130				04/01/23 09:23	04/03/23 04:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	379	F1	5.03		mg/Kg			04/03/23 20:26	1

Client Sample ID: S-2 (3')

Lab Sample ID: 880-26648-10

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 20:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 20:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 20:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/03/23 09:52	04/04/23 20:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/03/23 09:52	04/04/23 20:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/03/23 09:52	04/04/23 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/03/23 09:52	04/04/23 20:43	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/03/23 09:52	04/04/23 20:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3')

Lab Sample ID: 880-26648-10

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/23 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 05:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 05:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:23	04/03/23 05:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/01/23 09:23	04/03/23 05:04	1
o-Terphenyl	90		70 - 130				04/01/23 09:23	04/03/23 05:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	535		5.05		mg/Kg			04/03/23 20:41	1

Client Sample ID: S-3 (0-0.25')

Lab Sample ID: 880-26648-11

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 12:30	04/04/23 16:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 12:30	04/04/23 16:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 12:30	04/04/23 16:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/03/23 12:30	04/04/23 16:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 12:30	04/04/23 16:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/03/23 12:30	04/04/23 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/03/23 12:30	04/04/23 16:59	1
1,4-Difluorobenzene (Surr)	79		70 - 130				04/03/23 12:30	04/04/23 16:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/23 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/03/23 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/01/23 09:22	04/02/23 12:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/01/23 09:22	04/02/23 12:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0-0.25')

Lab Sample ID: 880-26648-11

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/01/23 09:22	04/02/23 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/01/23 09:22	04/02/23 12:59	1
o-Terphenyl	87		70 - 130				04/01/23 09:22	04/02/23 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.8		5.02		mg/Kg			04/03/23 20:45	1

Client Sample ID: S-3 (0.5')

Lab Sample ID: 880-26648-12

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 17:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 17:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 17:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/03/23 12:30	04/04/23 17:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 17:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/03/23 12:30	04/04/23 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/03/23 12:30	04/04/23 17:19	1
1,4-Difluorobenzene (Surr)	83		70 - 130				04/03/23 12:30	04/04/23 17:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/23 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/01/23 09:22	04/02/23 12:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/01/23 09:22	04/02/23 12:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:22	04/02/23 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/01/23 09:22	04/02/23 12:16	1
o-Terphenyl	96		70 - 130				04/01/23 09:22	04/02/23 12:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		4.98		mg/Kg			04/03/23 21:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1')

Lab Sample ID: 880-26648-13

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 17:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 17:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 17:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/03/23 12:30	04/04/23 17:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 17:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/03/23 12:30	04/04/23 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/03/23 12:30	04/04/23 17:40	1
1,4-Difluorobenzene (Surr)	79		70 - 130	04/03/23 12:30	04/04/23 17:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/23 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/01/23 09:22	04/02/23 12:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/01/23 09:22	04/02/23 12:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:22	04/02/23 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	04/01/23 09:22	04/02/23 12:38	1
o-Terphenyl	85		70 - 130	04/01/23 09:22	04/02/23 12:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		4.97		mg/Kg			04/03/23 21:05	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-26648-14

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 18:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 18:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 18:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/03/23 12:30	04/04/23 18:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/03/23 12:30	04/04/23 18:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/03/23 12:30	04/04/23 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/03/23 12:30	04/04/23 18:00	1
1,4-Difluorobenzene (Surr)	79		70 - 130	04/03/23 12:30	04/04/23 18:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-26648-14

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/23 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 11:24	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 F2	49.9		mg/Kg		04/01/23 09:22	04/02/23 11:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		04/01/23 09:22	04/02/23 11:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:22	04/02/23 11:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				04/01/23 09:22	04/02/23 11:12	1
o-Terphenyl	93		70 - 130				04/01/23 09:22	04/02/23 11:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		4.99		mg/Kg			04/03/23 21:10	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
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)
880-26511-A-8-B MS	Matrix Spike	91	110
880-26511-A-8-D MSD	Matrix Spike Duplicate	113	115
880-26647-A-1-F MS	Matrix Spike	103	110
880-26647-A-1-G MSD	Matrix Spike Duplicate	106	107
880-26648-1	S-1 (0-0.25')	97	106
880-26648-2	S-1 (0.5')	107	108
880-26648-3	S-1 (1')	102	107
880-26648-4	S-1 (1.5')	82	88
880-26648-5	S-2 (0-0.25')	99	87
880-26648-6	S-2 (0.5')	102	110
880-26648-7	S-2 (1')	98	106
880-26648-8	S-2 (1.5')	98	109
880-26648-9	S-2 (2')	103	104
880-26648-10	S-2 (3')	105	109
880-26648-11	S-3 (0-0.25')	107	79
880-26648-12	S-3 (0.5')	104	83
880-26648-13	S-3 (1')	97	79
880-26648-14	S-3 (1.5')	105	79
LCS 880-50149/1-A	Lab Control Sample	98	108
LCS 880-50191/1-A	Lab Control Sample	84	114
LCSD 880-50149/2-A	Lab Control Sample Dup	99	108
LCSD 880-50191/2-A	Lab Control Sample Dup	101	110
MB 880-50149/5-A	Method Blank	91	100
MB 880-50191/5-A	Method Blank	79	95
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)
880-26647-A-1-B MS	Matrix Spike	115	89
880-26647-A-1-C MSD	Matrix Spike Duplicate	113	88
880-26648-1	S-1 (0-0.25')	106	93
880-26648-2	S-1 (0.5')	101	88
880-26648-3	S-1 (1')	103	88
880-26648-4	S-1 (1.5')	107	90
880-26648-5	S-2 (0-0.25')	112	91
880-26648-6	S-2 (0.5')	105	89
880-26648-7	S-2 (1')	116	100
880-26648-8	S-2 (1.5')	102	86
880-26648-9	S-2 (2')	103	88
880-26648-10	S-2 (3')	104	90
880-26648-11	S-3 (0-0.25')	91	87
880-26648-12	S-3 (0.5')	100	96
880-26648-13	S-3 (1')	87	85

Eurofins Midland

Surrogate Summary

Client: Carmona Resources

Job ID: 880-26648-1

Project/Site: Falcon Federal 001 (03.08.23)

SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)				
880-26648-14	S-3 (1.5')	99	93				
880-26648-14 MS	S-3 (1.5')	97	84				
880-26648-14 MSD	S-3 (1.5')	112	99				
LCS 880-50084/2-A	Lab Control Sample	108	105				
LCS 880-50085/2-A	Lab Control Sample	109	94				
LCSD 880-50084/3-A	Lab Control Sample Dup	109	105				
LCSD 880-50085/3-A	Lab Control Sample Dup	94	78				
MB 880-50084/1-A	Method Blank	104	97				
MB 880-50085/1-A	Method Blank	123	108				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50149/5-A

Matrix: Solid

Analysis Batch: 50287

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/03/23 09:52	04/04/23 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 09:52	04/04/23 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/03/23 09:52	04/04/23 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	04/03/23 09:52	04/04/23 11:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/03/23 09:52	04/04/23 11:35	1

Lab Sample ID: LCS 880-50149/1-A

Matrix: Solid

Analysis Batch: 50287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09152		mg/Kg		92	70 - 130
Toluene	0.100	0.08825		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.07962		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1560		mg/Kg		78	70 - 130
o-Xylene	0.100	0.08031		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-50149/2-A

Matrix: Solid

Analysis Batch: 50287

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50149

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09302		mg/Kg		93	70 - 130	2	35
Toluene	0.100	0.08967		mg/Kg		90	70 - 130	2	35
Ethylbenzene	0.100	0.08195		mg/Kg		82	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1605		mg/Kg		80	70 - 130	3	35
o-Xylene	0.100	0.08234		mg/Kg		82	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-26647-A-1-F MS

Matrix: Solid

Analysis Batch: 50287

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.09752		mg/Kg		96	70 - 130
Toluene	<0.00202	U	0.100	0.09143		mg/Kg		90	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26647-A-1-F MS

Matrix: Solid

Analysis Batch: 50287

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50149

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.07894		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1541		mg/Kg		77	70 - 130
o-Xylene	<0.00202	U	0.100	0.07776		mg/Kg		77	70 - 130

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

Lab Sample ID: 880-26647-A-1-G MSD

Matrix: Solid

Analysis Batch: 50287

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50149

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09192		mg/Kg		92	70 - 130	6	35
Toluene	<0.00202	U	0.0990	0.08562		mg/Kg		85	70 - 130	7	35
Ethylbenzene	<0.00202	U	0.0990	0.07487		mg/Kg		75	70 - 130	5	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1458		mg/Kg		74	70 - 130	6	35
o-Xylene	<0.00202	U	0.0990	0.07325		mg/Kg		73	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-50191/5-A

Matrix: Solid

Analysis Batch: 50285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 12:30	04/04/23 10:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 12:30	04/04/23 10:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 12:30	04/04/23 10:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/03/23 12:30	04/04/23 10:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 12:30	04/04/23 10:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/03/23 12:30	04/04/23 10:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	04/03/23 12:30	04/04/23 10:48	1
1,4-Difluorobenzene (Surr)	95		70 - 130	04/03/23 12:30	04/04/23 10:48	1

Lab Sample ID: LCS 880-50191/1-A

Matrix: Solid

Analysis Batch: 50285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1268		mg/Kg		127	70 - 130
Toluene	0.100	0.1053		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.09615		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1915		mg/Kg		96	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-50191/1-A

Matrix: Solid

Analysis Batch: 50285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09559		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-50191/2-A

Matrix: Solid

Analysis Batch: 50285

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50191

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1148		mg/Kg		115	70 - 130	10	35
Toluene	0.100	0.1049		mg/Kg		105	70 - 130	0	35
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2112		mg/Kg		106	70 - 130	10	35
o-Xylene	0.100	0.1057		mg/Kg		106	70 - 130	10	35

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

Lab Sample ID: 880-26511-A-8-B MS

Matrix: Solid

Analysis Batch: 50285

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.09221		mg/Kg		91	70 - 130
Toluene	<0.00201	U	0.101	0.07529		mg/Kg		73	70 - 130
Ethylbenzene	0.00387	F1	0.101	0.06979	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1324	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.06655	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-26511-A-8-D MSD

Matrix: Solid

Analysis Batch: 50285

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1029		mg/Kg		104	70 - 130	11	35
Toluene	<0.00201	U	0.0990	0.08470		mg/Kg		84	70 - 130	12	35
Ethylbenzene	0.00387	F1	0.0990	0.08179		mg/Kg		79	70 - 130	16	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1626		mg/Kg		80	70 - 130	20	35
o-Xylene	<0.00201	U F1	0.0990	0.08189		mg/Kg		81	70 - 130	21	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26511-A-8-D MSD

Matrix: Solid

Analysis Batch: 50285

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50191

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

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

Lab Sample ID: MB 880-50084/1-A

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50084

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:22	04/02/23 08:39	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/23 09:22	04/02/23 08:39	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/23 09:22	04/02/23 08:39	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	104		70 - 130				04/01/23 09:22	04/02/23 08:39	1	
o-Terphenyl	97		70 - 130				04/01/23 09:22	04/02/23 08:39	1	

Lab Sample ID: LCS 880-50084/2-A

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50084

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	806.4		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	731.3		mg/Kg		73	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	108		70 - 130							
o-Terphenyl	105		70 - 130							

Lab Sample ID: LCSD 880-50084/3-A

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50084

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	856.3		mg/Kg		86	70 - 130	6	20	
Diesel Range Organics (Over C10-C28)			1000	746.0		mg/Kg		75	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	109		70 - 130									
o-Terphenyl	105		70 - 130									

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26648-14 MS

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: S-3 (1.5')

Prep Type: Total/NA

Prep Batch: 50084

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 F2	998	915.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	661.4	F1	mg/Kg		64	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	84		70 - 130						

Lab Sample ID: 880-26648-14 MSD

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: S-3 (1.5')

Prep Type: Total/NA

Prep Batch: 50084

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 F2	999	1131	F2	mg/Kg		110	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	806.9		mg/Kg		79	70 - 130	20	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: MB 880-50085/1-A

Matrix: Solid

Analysis Batch: 50089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/02/23 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/02/23 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/23 09:23	04/02/23 20:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				04/01/23 09:23	04/02/23 20:04	1
o-Terphenyl	108		70 - 130				04/01/23 09:23	04/02/23 20:04	1

Lab Sample ID: LCS 880-50085/2-A

Matrix: Solid

Analysis Batch: 50089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50085

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	910.9		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	791.8		mg/Kg		79	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-50085/2-A

Matrix: Solid

Analysis Batch: 50089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50085

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-50085/3-A

Matrix: Solid

Analysis Batch: 50089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50085

	Spike	LCSD	LCSD						%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
Gasoline Range Organics (GRO)-C6-C10	1000	869.8		mg/Kg		87	70 - 130	5	20			
Diesel Range Organics (Over C10-C28)	1000	946.4		mg/Kg		95	70 - 130	18	20			

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-26647-A-1-B MS

Matrix: Solid

Analysis Batch: 50089

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50085

	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	1080		mg/Kg		103	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1003		mg/Kg		99	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-26647-A-1-C MSD

Matrix: Solid

Analysis Batch: 50089

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50085

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	995.1		mg/Kg		95	70 - 130	8	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	987.0		mg/Kg		97	70 - 130	2	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	88		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50109/1-A

Matrix: Solid

Analysis Batch: 50197

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/03/23 19:04	1

Lab Sample ID: LCS 880-50109/2-A

Matrix: Solid

Analysis Batch: 50197

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.7		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-50109/3-A

Matrix: Solid

Analysis Batch: 50197

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	255.4		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-26648-9 MS

Matrix: Solid

Analysis Batch: 50197

Client Sample ID: S-2 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	379	F1	252	677.1	F1	mg/Kg		119	90 - 110

Lab Sample ID: 880-26648-9 MSD

Matrix: Solid

Analysis Batch: 50197

Client Sample ID: S-2 (2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	379	F1	252	678.1	F1	mg/Kg		119	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 50149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-1	S-1 (0-0.25')	Total/NA	Solid	5035	
880-26648-2	S-1 (0.5')	Total/NA	Solid	5035	
880-26648-3	S-1 (1')	Total/NA	Solid	5035	
880-26648-4	S-1 (1.5')	Total/NA	Solid	5035	
880-26648-5	S-2 (0-0.25')	Total/NA	Solid	5035	
880-26648-6	S-2 (0.5')	Total/NA	Solid	5035	
880-26648-7	S-2 (1')	Total/NA	Solid	5035	
880-26648-8	S-2 (1.5')	Total/NA	Solid	5035	
880-26648-9	S-2 (2')	Total/NA	Solid	5035	
880-26648-10	S-2 (3')	Total/NA	Solid	5035	
MB 880-50149/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50149/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50149/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26647-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-26647-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 50191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-11	S-3 (0-0.25')	Total/NA	Solid	5035	
880-26648-12	S-3 (0.5')	Total/NA	Solid	5035	
880-26648-13	S-3 (1')	Total/NA	Solid	5035	
880-26648-14	S-3 (1.5')	Total/NA	Solid	5035	
MB 880-50191/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50191/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50191/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26511-A-8-B MS	Matrix Spike	Total/NA	Solid	5035	
880-26511-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-11	S-3 (0-0.25')	Total/NA	Solid	8021B	50191
880-26648-12	S-3 (0.5')	Total/NA	Solid	8021B	50191
880-26648-13	S-3 (1')	Total/NA	Solid	8021B	50191
880-26648-14	S-3 (1.5')	Total/NA	Solid	8021B	50191
MB 880-50191/5-A	Method Blank	Total/NA	Solid	8021B	50191
LCS 880-50191/1-A	Lab Control Sample	Total/NA	Solid	8021B	50191
LCSD 880-50191/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50191
880-26511-A-8-B MS	Matrix Spike	Total/NA	Solid	8021B	50191
880-26511-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50191

Analysis Batch: 50287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-1	S-1 (0-0.25')	Total/NA	Solid	8021B	50149
880-26648-2	S-1 (0.5')	Total/NA	Solid	8021B	50149
880-26648-3	S-1 (1')	Total/NA	Solid	8021B	50149
880-26648-4	S-1 (1.5')	Total/NA	Solid	8021B	50149
880-26648-5	S-2 (0-0.25')	Total/NA	Solid	8021B	50149
880-26648-6	S-2 (0.5')	Total/NA	Solid	8021B	50149
880-26648-7	S-2 (1')	Total/NA	Solid	8021B	50149
880-26648-8	S-2 (1.5')	Total/NA	Solid	8021B	50149
880-26648-9	S-2 (2')	Total/NA	Solid	8021B	50149

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 50287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-10	S-2 (3')	Total/NA	Solid	8021B	50149
MB 880-50149/5-A	Method Blank	Total/NA	Solid	8021B	50149
LCS 880-50149/1-A	Lab Control Sample	Total/NA	Solid	8021B	50149
LCSD 880-50149/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50149
880-26647-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	50149
880-26647-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50149

Analysis Batch: 50394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-1	S-1 (0-0.25')	Total/NA	Solid	Total BTEX	
880-26648-2	S-1 (0.5')	Total/NA	Solid	Total BTEX	
880-26648-3	S-1 (1')	Total/NA	Solid	Total BTEX	
880-26648-4	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-26648-5	S-2 (0-0.25')	Total/NA	Solid	Total BTEX	
880-26648-6	S-2 (0.5')	Total/NA	Solid	Total BTEX	
880-26648-7	S-2 (1')	Total/NA	Solid	Total BTEX	
880-26648-8	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-26648-9	S-2 (2')	Total/NA	Solid	Total BTEX	
880-26648-10	S-2 (3')	Total/NA	Solid	Total BTEX	
880-26648-11	S-3 (0-0.25')	Total/NA	Solid	Total BTEX	
880-26648-12	S-3 (0.5')	Total/NA	Solid	Total BTEX	
880-26648-13	S-3 (1')	Total/NA	Solid	Total BTEX	
880-26648-14	S-3 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 50084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-11	S-3 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-26648-12	S-3 (0.5')	Total/NA	Solid	8015NM Prep	
880-26648-13	S-3 (1')	Total/NA	Solid	8015NM Prep	
880-26648-14	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-50084/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50084/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50084/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26648-14 MS	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-26648-14 MSD	S-3 (1.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 50085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-1	S-1 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-26648-2	S-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-26648-3	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-26648-4	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-26648-5	S-2 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-26648-6	S-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-26648-7	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-26648-8	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-26648-9	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-26648-10	S-2 (3')	Total/NA	Solid	8015NM Prep	
MB 880-50085/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 50085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-50085/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50085/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26647-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26647-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-1	S-1 (0-0.25')	Total/NA	Solid	8015B NM	50085
880-26648-2	S-1 (0.5')	Total/NA	Solid	8015B NM	50085
880-26648-3	S-1 (1')	Total/NA	Solid	8015B NM	50085
880-26648-4	S-1 (1.5')	Total/NA	Solid	8015B NM	50085
880-26648-5	S-2 (0-0.25')	Total/NA	Solid	8015B NM	50085
880-26648-6	S-2 (0.5')	Total/NA	Solid	8015B NM	50085
880-26648-7	S-2 (1')	Total/NA	Solid	8015B NM	50085
880-26648-8	S-2 (1.5')	Total/NA	Solid	8015B NM	50085
880-26648-9	S-2 (2')	Total/NA	Solid	8015B NM	50085
880-26648-10	S-2 (3')	Total/NA	Solid	8015B NM	50085
MB 880-50085/1-A	Method Blank	Total/NA	Solid	8015B NM	50085
LCS 880-50085/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50085
LCSD 880-50085/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50085
880-26647-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50085
880-26647-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50085

Analysis Batch: 50093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-11	S-3 (0-0.25')	Total/NA	Solid	8015B NM	50084
880-26648-12	S-3 (0.5')	Total/NA	Solid	8015B NM	50084
880-26648-13	S-3 (1')	Total/NA	Solid	8015B NM	50084
880-26648-14	S-3 (1.5')	Total/NA	Solid	8015B NM	50084
MB 880-50084/1-A	Method Blank	Total/NA	Solid	8015B NM	50084
LCS 880-50084/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50084
LCSD 880-50084/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50084
880-26648-14 MS	S-3 (1.5')	Total/NA	Solid	8015B NM	50084
880-26648-14 MSD	S-3 (1.5')	Total/NA	Solid	8015B NM	50084

Analysis Batch: 50177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-1	S-1 (0-0.25')	Total/NA	Solid	8015 NM	
880-26648-2	S-1 (0.5')	Total/NA	Solid	8015 NM	
880-26648-3	S-1 (1')	Total/NA	Solid	8015 NM	
880-26648-4	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-26648-5	S-2 (0-0.25')	Total/NA	Solid	8015 NM	
880-26648-6	S-2 (0.5')	Total/NA	Solid	8015 NM	
880-26648-7	S-2 (1')	Total/NA	Solid	8015 NM	
880-26648-8	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-26648-9	S-2 (2')	Total/NA	Solid	8015 NM	
880-26648-10	S-2 (3')	Total/NA	Solid	8015 NM	
880-26648-11	S-3 (0-0.25')	Total/NA	Solid	8015 NM	
880-26648-12	S-3 (0.5')	Total/NA	Solid	8015 NM	
880-26648-13	S-3 (1')	Total/NA	Solid	8015 NM	
880-26648-14	S-3 (1.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

HPLC/IC

Leach Batch: 50109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-1	S-1 (0-0.25')	Soluble	Solid	DI Leach	
880-26648-2	S-1 (0.5')	Soluble	Solid	DI Leach	
880-26648-3	S-1 (1')	Soluble	Solid	DI Leach	
880-26648-4	S-1 (1.5')	Soluble	Solid	DI Leach	
880-26648-5	S-2 (0-0.25')	Soluble	Solid	DI Leach	
880-26648-6	S-2 (0.5')	Soluble	Solid	DI Leach	
880-26648-7	S-2 (1')	Soluble	Solid	DI Leach	
880-26648-8	S-2 (1.5')	Soluble	Solid	DI Leach	
880-26648-9	S-2 (2')	Soluble	Solid	DI Leach	
880-26648-10	S-2 (3')	Soluble	Solid	DI Leach	
880-26648-11	S-3 (0-0.25')	Soluble	Solid	DI Leach	
880-26648-12	S-3 (0.5')	Soluble	Solid	DI Leach	
880-26648-13	S-3 (1')	Soluble	Solid	DI Leach	
880-26648-14	S-3 (1.5')	Soluble	Solid	DI Leach	
MB 880-50109/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50109/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50109/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26648-9 MS	S-2 (2')	Soluble	Solid	DI Leach	
880-26648-9 MSD	S-2 (2')	Soluble	Solid	DI Leach	

Analysis Batch: 50197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26648-1	S-1 (0-0.25')	Soluble	Solid	300.0	50109
880-26648-2	S-1 (0.5')	Soluble	Solid	300.0	50109
880-26648-3	S-1 (1')	Soluble	Solid	300.0	50109
880-26648-4	S-1 (1.5')	Soluble	Solid	300.0	50109
880-26648-5	S-2 (0-0.25')	Soluble	Solid	300.0	50109
880-26648-6	S-2 (0.5')	Soluble	Solid	300.0	50109
880-26648-7	S-2 (1')	Soluble	Solid	300.0	50109
880-26648-8	S-2 (1.5')	Soluble	Solid	300.0	50109
880-26648-9	S-2 (2')	Soluble	Solid	300.0	50109
880-26648-10	S-2 (3')	Soluble	Solid	300.0	50109
880-26648-11	S-3 (0-0.25')	Soluble	Solid	300.0	50109
880-26648-12	S-3 (0.5')	Soluble	Solid	300.0	50109
880-26648-13	S-3 (1')	Soluble	Solid	300.0	50109
880-26648-14	S-3 (1.5')	Soluble	Solid	300.0	50109
MB 880-50109/1-A	Method Blank	Soluble	Solid	300.0	50109
LCS 880-50109/2-A	Lab Control Sample	Soluble	Solid	300.0	50109
LCSD 880-50109/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50109
880-26648-9 MS	S-2 (2')	Soluble	Solid	300.0	50109
880-26648-9 MSD	S-2 (2')	Soluble	Solid	300.0	50109

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-0.25')
Date Collected: 03/30/23 00:00
Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-1
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	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 01:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 19:38	SMC	EET MID

Client Sample ID: S-1 (0.5')
Date Collected: 03/30/23 00:00
Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-2
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			4.99 g	5 mL	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 02:13	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 19:43	SMC	EET MID

Client Sample ID: S-1 (1')
Date Collected: 03/30/23 00:00
Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-3
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	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 02:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 19:47	SMC	EET MID

Client Sample ID: S-1 (1.5')
Date Collected: 03/30/23 00:00
Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-26648-4

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 02:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 20:02	SMC	EET MID

Client Sample ID: S-2 (0-0.25')

Lab Sample ID: 880-26648-5

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50287	04/04/23 21:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 03:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 20:07	SMC	EET MID

Client Sample ID: S-2 (0.5')

Lab Sample ID: 880-26648-6

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 03:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 20:12	SMC	EET MID

Client Sample ID: S-2 (1')

Lab Sample ID: 880-26648-7

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 04:01	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1')

Date Collected: 03/30/23 00:00

Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 20:16	SMC	EET MID

Client Sample ID: S-2 (1.5')

Date Collected: 03/30/23 00:00

Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 04:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 20:21	SMC	EET MID

Client Sample ID: S-2 (2')

Date Collected: 03/30/23 00:00

Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 20:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 04:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 20:26	SMC	EET MID

Client Sample ID: S-2 (3')

Date Collected: 03/30/23 00:00

Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	50149	04/03/23 09:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50287	04/04/23 20:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 13:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50085	04/01/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50089	04/03/23 05:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 20:41	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (0-0.25')

Lab Sample ID: 880-26648-11

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50191	04/03/23 12:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50285	04/04/23 16:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50084	04/01/23 09:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50093	04/02/23 12:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 20:45	SMC	EET MID

Client Sample ID: S-3 (0.5')

Lab Sample ID: 880-26648-12

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50191	04/03/23 12:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50285	04/04/23 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50084	04/01/23 09:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50093	04/02/23 12:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 21:00	SMC	EET MID

Client Sample ID: S-3 (1')

Lab Sample ID: 880-26648-13

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50191	04/03/23 12:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50285	04/04/23 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			50177	04/03/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50084	04/01/23 09:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50093	04/02/23 12:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 21:05	SMC	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-26648-14

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50191	04/03/23 12:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50285	04/04/23 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50394	04/05/23 11:07	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')
Date Collected: 03/30/23 00:00
Date Received: 03/31/23 13:55

Lab Sample ID: 880-26648-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50177	04/03/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50084	04/01/23 09:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50093	04/02/23 11:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50109	04/03/23 06:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50197	04/03/23 21:10	SMC	EET MID

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

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
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	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
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:

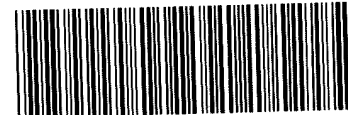
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26648-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26648-1	S-1 (0-0.25')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-2	S-1 (0.5')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-3	S-1 (1')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-4	S-1 (1.5')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-5	S-2 (0-0.25')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-6	S-2 (0.5')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-7	S-2 (1')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-8	S-2 (1.5')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-9	S-2 (2')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-10	S-2 (3')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-11	S-3 (0-0.25')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-12	S-3 (0.5')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-13	S-3 (1')	Solid	03/30/23 00:00	03/31/23 13:55
880-26648-14	S-3 (1.5')	Solid	03/30/23 00:00	03/31/23 13:55



880-26648 Chain of Custody

Page 1 of 2

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

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

Project Name		Falcon Federal 001 (03 08 23)		Turn Around		ANALYSIS REQUEST																Preservative Codes															
Project Number		2007		☐ Routine ☒ Rush		Pres. Code																		None NO DI Water H ₂ O													
Project Location		Lea County, New Mexico		Due Date		72 Hrs																				Cool Cool MeOH Me											
Sampler's Name		MM / GPJ																								HCL HC HNO ₃ HN											
PO #																										H ₂ SO ₄ H ₂ NaOH Na											
SAMPLE RECEIPT		Temp Blank.		Yes No		Wet Ice		Yes No																				H ₃ PO ₄ HP									
Received Intact:		Yes No		Thermometer ID																								NaHSO ₄ NABIS									
Cooler Custody Seals		Yes No		N/A		Correction Factor																						Na ₂ S ₂ O ₃ NaSO ₃									
Sample Custody Seals		Yes No		N/A		Temperature Reading																						Zn Acetate+NaOH Zn									
Total Containers				Corrected Temperature																								NaOH+Ascorbic Acid SAPC									
Sample Identification		Date		Time		Soil		Water		Grab/ Comp		# of Cont																				Sample Comments					
S-1 (0-0.25')		3/30/2023				X				G		1		X		X		X																		402	
S-1 (0 5')		3/30/2023				X				G		1		X		X		X																			
S-1 (1')		3/30/2023				X				G		1		X		X		X																			
S-1 (1 5')		3/30/2023				X				G		1		X		X		X																			
S-2 (0-0 25')		3/30/2023				X				G		1		X		X		X																			
S-2 (0 5')		3/30/2023				X				G		1		X		X		X																			
S-2 (1')		3/30/2023				X				G		1		X		X		X																			
S-2 (1 5')		3/30/2023				X				G		1		X		X		X																			
S-2 (2')		3/30/2023				X				G		1		X		X		X																			
S-2 (3')		3/30/2023				X				G		1		X		X		X																			

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

Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
Carmona		3-30-23 1355		[Signature]			

Work Order No:

Page 2 of 2

Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City, State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

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

[illegible]

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Ana Maria</i>	3-31-23 1355	<i>[Signature]</i>	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-26648-1

SDG Number: Lea County, New Mexico

Login Number: 26648

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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: Mike Carmona
Carmona Resources
310 W Wall St
Ste 415
Midland, Texas 79701

Generated 4/4/2023 12:48:14 PM

JOB DESCRIPTION

Falcon Federal 001 (03.08.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-26645-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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

Authorization

Generated
4/4/2023 12:48:14 PM

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

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Laboratory Job ID: 880-26645-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
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
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

Job ID: 880-26645-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-26645-1
-----------	------------------------------

Receipt

The samples were received on 3/31/2023 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-26645-1), H-2 (0-0.5') (880-26645-2), H-3 (0-0.5') (880-26645-3) and H-4 (0-0.5') (880-26645-4).

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26645-1

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/03/23 08:39	04/03/23 17:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/03/23 08:39	04/03/23 17:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/03/23 08:39	04/03/23 17:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/03/23 08:39	04/03/23 17:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/03/23 08:39	04/03/23 17:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/03/23 08:39	04/03/23 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/03/23 08:39	04/03/23 17:12	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/03/23 08:39	04/03/23 17:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/04/23 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/03/23 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/01/23 09:27	04/03/23 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/01/23 09:27	04/03/23 00:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/01/23 09:27	04/03/23 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	04/01/23 09:27	04/03/23 00:44	1
o-Terphenyl	78		70 - 130	04/01/23 09:27	04/03/23 00:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.97		mg/Kg			04/03/23 16:07	1

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

Lab Sample ID: 880-26645-2

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 17:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 17:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 17:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/03/23 08:39	04/03/23 17:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/03/23 08:39	04/03/23 17:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/03/23 08:39	04/03/23 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/03/23 08:39	04/03/23 17:33	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/03/23 08:39	04/03/23 17:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26645-2

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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			04/04/23 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/03/23 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/03/23 01:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/03/23 01:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/03/23 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/01/23 09:27	04/03/23 01:05	1
o-Terphenyl	80		70 - 130				04/01/23 09:27	04/03/23 01:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.2		4.99		mg/Kg			04/03/23 16:21	1

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

Lab Sample ID: 880-26645-3

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/03/23 08:39	04/03/23 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 08:39	04/03/23 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				04/03/23 08:39	04/03/23 17:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/03/23 08:39	04/03/23 17:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/04/23 10:41	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			04/03/23 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/01/23 09:27	04/03/23 01:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/01/23 09:27	04/03/23 01:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26645-3

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/01/23 09:27	04/03/23 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/01/23 09:27	04/03/23 01:46	1
o-Terphenyl	84		70 - 130				04/01/23 09:27	04/03/23 01:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.7		5.05		mg/Kg			04/03/23 16:25	1

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

Lab Sample ID: 880-26645-4

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 18:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 18:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/03/23 08:39	04/03/23 18:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 18:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 08:39	04/03/23 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				04/03/23 08:39	04/03/23 18:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130				04/03/23 08:39	04/03/23 18:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/04/23 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/03/23 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/03/23 02:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/03/23 02:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/03/23 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				04/01/23 09:27	04/03/23 02:07	1
o-Terphenyl	83		70 - 130				04/01/23 09:27	04/03/23 02:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		4.95		mg/Kg			04/03/23 16:30	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
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)
880-26292-A-47-B MS	Matrix Spike	85	114
880-26292-A-47-C MSD	Matrix Spike Duplicate	98	117
880-26645-1	H-1 (0-0.5')	111	85
880-26645-2	H-2 (0-0.5')	106	87
880-26645-3	H-3 (0-0.5')	89	97
880-26645-4	H-4 (0-0.5')	105	86
LCS 880-50130/1-A	Lab Control Sample	99	111
LCSD 880-50130/2-A	Lab Control Sample Dup	89	117
MB 880-50130/5-A	Method Blank	77	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)
880-26645-1	H-1 (0-0.5')	87	78
880-26645-2	H-2 (0-0.5')	87	80
880-26645-3	H-3 (0-0.5')	95	84
880-26645-4	H-4 (0-0.5')	90	83
880-26660-A-61-B MS	Matrix Spike	101	84
880-26660-A-61-C MSD	Matrix Spike Duplicate	110	92
LCS 880-50087/2-A	Lab Control Sample	124	111
LCSD 880-50087/3-A	Lab Control Sample Dup	125	113
MB 880-50087/1-A	Method Blank	123	120
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50130/5-A

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/03/23 08:39	04/03/23 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	04/03/23 08:39	04/03/23 11:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/03/23 08:39	04/03/23 11:01	1

Lab Sample ID: LCS 880-50130/1-A

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1190		mg/Kg		119	70 - 130
Toluene	0.100	0.1022		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09825		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2029		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-50130/2-A

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50130

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1186		mg/Kg		119	70 - 130	0	35
Toluene	0.100	0.09718		mg/Kg		97	70 - 130	5	35
Ethylbenzene	0.100	0.08856		mg/Kg		89	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1774		mg/Kg		89	70 - 130	13	35
o-Xylene	0.100	0.08922		mg/Kg		89	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-26292-A-47-B MS

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1024		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.08445		mg/Kg		84	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26292-A-47-B MS

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07581		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1491		mg/Kg		74	70 - 130
o-Xylene	<0.00200	U	0.100	0.07405		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-26292-A-47-C MSD

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1051		mg/Kg		106	70 - 130	3	35
Toluene	<0.00200	U	0.0990	0.08707		mg/Kg		88	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0990	0.07985		mg/Kg		81	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1599		mg/Kg		81	70 - 130	7	35
o-Xylene	<0.00200	U	0.0990	0.08075		mg/Kg		82	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

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

Lab Sample ID: MB 880-50087/1-A

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50087

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/02/23 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/02/23 20:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/01/23 09:27	04/02/23 20:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	04/01/23 09:27	04/02/23 20:09	1
o-Terphenyl	120		70 - 130	04/01/23 09:27	04/02/23 20:09	1

Lab Sample ID: LCS 880-50087/2-A

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1067		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	886.1		mg/Kg		89	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-50087/2-A

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50087

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: LCSD 880-50087/3-A

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50087

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1008		mg/Kg		101	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	894.3		mg/Kg		89	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 880-26660-A-61-B MS

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50087

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	998	1009		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	728.8		mg/Kg		73	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 880-26660-A-61-C MSD

Matrix: Solid

Analysis Batch: 50093

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50087

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	998	1107		mg/Kg		107	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	806.5		mg/Kg		81	70 - 130	10	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	92		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50108/1-A

Matrix: Solid

Analysis Batch: 50200

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/03/23 15:53	1

Lab Sample ID: LCS 880-50108/2-A

Matrix: Solid

Analysis Batch: 50200

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-50108/3-A

Matrix: Solid

Analysis Batch: 50200

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	250.9		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-26645-1 MS

Matrix: Solid

Analysis Batch: 50200

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100		249	335.6		mg/Kg		95	90 - 110

Lab Sample ID: 880-26645-1 MSD

Matrix: Solid

Analysis Batch: 50200

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		249	333.0		mg/Kg		94	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 50119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26645-1	H-1 (0-0.5')	Total/NA	Solid	8021B	50130
880-26645-2	H-2 (0-0.5')	Total/NA	Solid	8021B	50130
880-26645-3	H-3 (0-0.5')	Total/NA	Solid	8021B	50130
880-26645-4	H-4 (0-0.5')	Total/NA	Solid	8021B	50130
MB 880-50130/5-A	Method Blank	Total/NA	Solid	8021B	50130
LCS 880-50130/1-A	Lab Control Sample	Total/NA	Solid	8021B	50130
LCSD 880-50130/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50130
880-26292-A-47-B MS	Matrix Spike	Total/NA	Solid	8021B	50130
880-26292-A-47-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50130

Prep Batch: 50130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26645-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-26645-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-26645-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-26645-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-50130/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50130/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50130/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26292-A-47-B MS	Matrix Spike	Total/NA	Solid	5035	
880-26292-A-47-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26645-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-26645-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-26645-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-26645-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 50087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26645-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26645-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26645-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-26645-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-50087/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50087/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50087/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26660-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26660-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26645-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	50087
880-26645-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	50087
880-26645-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	50087
880-26645-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	50087
MB 880-50087/1-A	Method Blank	Total/NA	Solid	8015B NM	50087
LCS 880-50087/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50087

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 50093 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-50087/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50087
880-26660-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50087
880-26660-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50087

Analysis Batch: 50180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26645-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-26645-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-26645-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-26645-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26645-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-26645-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-26645-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-26645-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-50108/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50108/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50108/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26645-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-26645-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 50200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26645-1	H-1 (0-0.5')	Soluble	Solid	300.0	50108
880-26645-2	H-2 (0-0.5')	Soluble	Solid	300.0	50108
880-26645-3	H-3 (0-0.5')	Soluble	Solid	300.0	50108
880-26645-4	H-4 (0-0.5')	Soluble	Solid	300.0	50108
MB 880-50108/1-A	Method Blank	Soluble	Solid	300.0	50108
LCS 880-50108/2-A	Lab Control Sample	Soluble	Solid	300.0	50108
LCSD 880-50108/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50108
880-26645-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	50108
880-26645-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	50108

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-26645-1

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50130	04/03/23 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50119	04/03/23 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50306	04/04/23 10:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			50180	04/03/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50087	04/01/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50093	04/03/23 00:44	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50108	04/03/23 06:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50200	04/03/23 16:07	SMC	EET MID

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

Lab Sample ID: 880-26645-2

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50130	04/03/23 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50119	04/03/23 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50306	04/04/23 10:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			50180	04/03/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50087	04/01/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50093	04/03/23 01:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50108	04/03/23 06:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50200	04/03/23 16:21	SMC	EET MID

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

Lab Sample ID: 880-26645-3

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50130	04/03/23 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50119	04/03/23 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50306	04/04/23 10:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			50180	04/03/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50087	04/01/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50093	04/03/23 01:46	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50108	04/03/23 06:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50200	04/03/23 16:25	SMC	EET MID

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

Lab Sample ID: 880-26645-4

Date Collected: 03/30/23 00:00

Matrix: Solid

Date Received: 03/31/23 13:55

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	50130	04/03/23 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50119	04/03/23 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50306	04/04/23 10:41	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 03/30/23 00:00
Date Received: 03/31/23 13:55

Lab Sample ID: 880-26645-4
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			50180	04/03/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50087	04/01/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50093	04/03/23 02:07	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	50108	04/03/23 06:35	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50200	04/03/23 16:30	SMC	EET MID

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

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
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	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
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: Falcon Federal 001 (03.08.23)

Job ID: 880-26645-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26645-1	H-1 (0-0.5')	Solid	03/30/23 00:00	03/31/23 13:55
880-26645-2	H-2 (0-0.5')	Solid	03/30/23 00:00	03/31/23 13:55
880-26645-3	H-3 (0-0.5')	Solid	03/30/23 00:00	03/31/23 13:55
880-26645-4	H-4 (0-0.5')	Solid	03/30/23 00:00	03/31/23 13:55

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

880-26645 Chain of Custody

Sample Comments

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-26645-1
SDG Number: Lea County, New Mexico

Login Number: 26645

List Number: 1

Creator: Rodriguez, Leticia

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 4/24/2023 1:21:17 PM Revision 1

JOB DESCRIPTION

Falcon Federal 001 (03.08.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-27378-1

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



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

Generated
4/24/2023 1:21:17 PM
Revision 1

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Laboratory Job ID: 880-27378-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	22
QC Sample Results	24
QC Association Summary	30
Lab Chronicle	35
Certification Summary	41
Method Summary	42
Sample Summary	43
Chain of Custody	44
Receipt Checklists	46

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Job ID: 880-27378-1**Laboratory: Eurofins Midland****Narrative**

Job Narrative
880-27378-1

REVISION

The report being provided is a revision of the original report sent on 4/21/2023. The report (revision 1) is being revised due to Per client email, requesting revised report with correct sample IDs to match COC.

Receipt

The samples were received on 4/19/2023 4:28 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 -6.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (0.5') (880-27378-1), CS-2 (0.5') (880-27378-2), CS-3 (0.5') (880-27378-3), CS-4 (0.5') (880-27378-4), CS-5 (0.5') (880-27378-5), CS-6 (0.5') (880-27378-6), CS-7 (0.5') (880-27378-7), CS-8 (0.5') (880-27378-8), CS-9 (0.5') (880-27378-9), SW-1 (0.5') (880-27378-10), SW-2 (0.5') (880-27378-11), SW-3 (0.5') (880-27378-12), SW-4 (0.5') (880-27378-13), SW-5 (0.5') (880-27378-14), SW-6 (0.5') (880-27378-15), SW-7 (0.5') (880-27378-16), SW-8 (0.5') (880-27378-17), SW-9 (0.5') (880-27378-18) and SW-10 (0.5') (880-27378-19).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-51536 and analytical batch 880-51575 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-3 (0.5') (880-27378-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-8 (0.5') (880-27378-17), SW-9 (0.5') (880-27378-18) and SW-10 (0.5') (880-27378-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-51536/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-51536 and analytical batch 880-51575 recovered outside control limits for the following analytes: m-Xylene & p-Xylene and o-Xylene.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-51577 and analytical batch 880-51565 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-2 (0.5') (880-27378-2), CS-5 (0.5') (880-27378-5) and CS-7 (0.5') (880-27378-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-2 (0.5') (880-27378-11), SW-6 (0.5') (880-27378-15), SW-7 (0.5') (880-27378-16) and SW-8 (0.5') (880-27378-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-10 (0.5') (880-27378-19). Evidence of

Case Narrative

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Job ID: 880-27378-1 (Continued)

Laboratory: Eurofins Midland (Continued)

matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-51577 and analytical batch 880-51565 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51539, 880-51539, 880-51539 and analytical batch 880-51605 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. CS-1 (0.5') (880-27378-1), CS-2 (0.5') (880-27378-2), CS-3 (0.5') (880-27378-3), CS-4 (0.5') (880-27378-4), CS-5 (0.5') (880-27378-5), CS-6 (0.5') (880-27378-6), CS-7 (0.5') (880-27378-7), CS-8 (0.5') (880-27378-8), CS-9 (0.5') (880-27378-9), SW-1 (0.5') (880-27378-10), SW-2 (0.5') (880-27378-11), SW-3 (0.5') (880-27378-12), SW-4 (0.5') (880-27378-13), SW-5 (0.5') (880-27378-14), SW-6 (0.5') (880-27378-15), SW-7 (0.5') (880-27378-16), SW-8 (0.5') (880-27378-17), SW-9 (0.5') (880-27378-18), SW-10 (0.5') (880-27378-19) and (880-27378-A-1-F MSD)

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

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (0.5')

Lab Sample ID: 880-27378-1

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/19/23 16:34	04/20/23 11:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/19/23 16:34	04/20/23 11:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/19/23 16:34	04/20/23 11:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/19/23 16:34	04/20/23 11:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/19/23 16:34	04/20/23 11:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/19/23 16:34	04/20/23 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/19/23 16:34	04/20/23 11:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/19/23 16:34	04/20/23 11:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/20/23 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	146		50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 15:20	1
Diesel Range Organics (Over C10-C28)	146	F1	50.0		mg/Kg		04/20/23 08:20	04/20/23 15:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	04/20/23 08:20	04/20/23 15:20	1
o-Terphenyl	117		70 - 130	04/20/23 08:20	04/20/23 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	323	B F1	5.03		mg/Kg			04/20/23 09:06	1

Client Sample ID: CS-2 (0.5')

Lab Sample ID: 880-27378-2

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 11:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 11:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 11:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/23 16:34	04/20/23 11:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 11:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/23 16:34	04/20/23 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/19/23 16:34	04/20/23 11:37	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/19/23 16:34	04/20/23 11:37	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (0.5')

Lab Sample ID: 880-27378-2

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/20/23 15:17	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			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 16:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 16:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130				04/20/23 08:20	04/20/23 16:25	1
o-Terphenyl	131	S1+	70 - 130				04/20/23 08:20	04/20/23 16:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285	B	4.98		mg/Kg			04/20/23 09:20	1

Client Sample ID: CS-3 (0.5')

Lab Sample ID: 880-27378-3

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 11:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 11:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 11:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/23 16:34	04/20/23 11:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 11:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/23 16:34	04/20/23 11:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				04/19/23 16:34	04/20/23 11:58	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/19/23 16:34	04/20/23 11:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/20/23 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 16:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 16:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-3 (0.5')

Date Collected: 04/19/23 00:00

Date Received: 04/19/23 16:28

Lab Sample ID: 880-27378-3

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		04/20/23 08:20	04/20/23 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/20/23 08:20	04/20/23 16:46	1
o-Terphenyl	103		70 - 130				04/20/23 08:20	04/20/23 16:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275	B	5.00		mg/Kg			04/20/23 09:24	1

Client Sample ID: CS-4 (0.5')

Date Collected: 04/19/23 00:00

Date Received: 04/19/23 16:28

Lab Sample ID: 880-27378-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:34	04/20/23 12:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:34	04/20/23 12:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:34	04/20/23 12:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/19/23 16:34	04/20/23 12:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:34	04/20/23 12:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/19/23 16:34	04/20/23 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				04/19/23 16:34	04/20/23 12:19	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/19/23 16:34	04/20/23 12:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/20/23 15:17	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			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 17:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 17:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/20/23 08:20	04/20/23 17:08	1
o-Terphenyl	112		70 - 130				04/20/23 08:20	04/20/23 17:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345	B	5.01		mg/Kg			04/20/23 09:29	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-5 (0.5')

Lab Sample ID: 880-27378-5

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/19/23 16:34	04/20/23 12:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/19/23 16:34	04/20/23 12:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/19/23 16:34	04/20/23 12:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/19/23 16:34	04/20/23 12:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/19/23 16:34	04/20/23 12:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/19/23 16:34	04/20/23 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/19/23 16:34	04/20/23 12:39	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/19/23 16:34	04/20/23 12:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/20/23 15:17	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			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 17:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 17:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	04/20/23 08:20	04/20/23 17:31	1
o-Terphenyl	129		70 - 130	04/20/23 08:20	04/20/23 17:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265	B	5.02		mg/Kg			04/20/23 09:34	1

Client Sample ID: CS-6 (0.5')

Lab Sample ID: 880-27378-6

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 13:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 13:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 13:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/23 16:34	04/20/23 13:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 13:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/23 16:34	04/20/23 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/19/23 16:34	04/20/23 13:00	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/19/23 16:34	04/20/23 13:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-6 (0.5')

Lab Sample ID: 880-27378-6

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/20/23 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 17:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 17:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				04/20/23 08:20	04/20/23 17:52	1
o-Terphenyl	119		70 - 130				04/20/23 08:20	04/20/23 17:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293	B	4.97		mg/Kg			04/20/23 09:47	1

Client Sample ID: CS-7 (0.5')

Lab Sample ID: 880-27378-7

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/19/23 16:34	04/20/23 13:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/19/23 16:34	04/20/23 13:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/19/23 16:34	04/20/23 13:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/19/23 16:34	04/20/23 13:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/19/23 16:34	04/20/23 13:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/19/23 16:34	04/20/23 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/19/23 16:34	04/20/23 13:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/19/23 16:34	04/20/23 13:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/20/23 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 18:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 18:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (0.5')

Date Collected: 04/19/23 00:00

Date Received: 04/19/23 16:28

Lab Sample ID: 880-27378-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	226	S1+	70 - 130				04/20/23 08:20	04/20/23 18:14	1
o-Terphenyl	224	S1+	70 - 130				04/20/23 08:20	04/20/23 18:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	413	B	5.00		mg/Kg			04/20/23 09:52	1

Client Sample ID: CS-8 (0.5')

Date Collected: 04/19/23 00:00

Date Received: 04/19/23 16:28

Lab Sample ID: 880-27378-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 13:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 13:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 13:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/19/23 16:34	04/20/23 13:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:34	04/20/23 13:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/19/23 16:34	04/20/23 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				04/19/23 16:34	04/20/23 13:41	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/19/23 16:34	04/20/23 13:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/20/23 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 18:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/20/23 08:20	04/20/23 18:36	1
o-Terphenyl	118		70 - 130				04/20/23 08:20	04/20/23 18:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412	B	5.01		mg/Kg			04/20/23 09:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-9 (0.5')

Lab Sample ID: 880-27378-9

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:34	04/20/23 14:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:34	04/20/23 14:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:34	04/20/23 14:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/19/23 16:34	04/20/23 14:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:34	04/20/23 14:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/19/23 16:34	04/20/23 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	04/19/23 16:34	04/20/23 14:02	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/19/23 16:34	04/20/23 14:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/20/23 15:17	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			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 18:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 18:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	04/20/23 08:20	04/20/23 18:58	1
o-Terphenyl	111		70 - 130	04/20/23 08:20	04/20/23 18:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	485	B	5.03		mg/Kg			04/20/23 10:01	1

Client Sample ID: SW-1 (0.5')

Lab Sample ID: 880-27378-10

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:34	04/20/23 14:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:34	04/20/23 14:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:34	04/20/23 14:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/19/23 16:34	04/20/23 14:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:34	04/20/23 14:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/19/23 16:34	04/20/23 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	04/19/23 16:34	04/20/23 14:23	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/19/23 16:34	04/20/23 14:23	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (0.5')

Lab Sample ID: 880-27378-10

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/20/23 15:17	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			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 19:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 19:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				04/20/23 08:20	04/20/23 19:20	1
o-Terphenyl	123		70 - 130				04/20/23 08:20	04/20/23 19:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	606	B	4.99		mg/Kg			04/20/23 10:05	1

Client Sample ID: SW-2 (0.5')

Lab Sample ID: 880-27378-11

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:35	04/20/23 11:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:35	04/20/23 11:56	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		04/19/23 16:35	04/20/23 11:56	1
m-Xylene & p-Xylene	<0.00402	U F2 F1 *1	0.00402		mg/Kg		04/19/23 16:35	04/20/23 11:56	1
o-Xylene	<0.00201	U F2 F1 *1	0.00201		mg/Kg		04/19/23 16:35	04/20/23 11:56	1
Xylenes, Total	<0.00402	U F2 F1 *1	0.00402		mg/Kg		04/19/23 16:35	04/20/23 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				04/19/23 16:35	04/20/23 11:56	1
1,4-Difluorobenzene (Surr)	77		70 - 130				04/19/23 16:35	04/20/23 11:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 20:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 20:03	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (0.5')

Date Collected: 04/19/23 00:00

Date Received: 04/19/23 16:28

Lab Sample ID: 880-27378-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				04/20/23 08:20	04/20/23 20:03	1
o-Terphenyl	125		70 - 130				04/20/23 08:20	04/20/23 20:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	404	B	5.03		mg/Kg			04/20/23 10:10	1

Client Sample ID: SW-3 (0.5')

Date Collected: 04/19/23 00:00

Date Received: 04/19/23 16:28

Lab Sample ID: 880-27378-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 12:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 12:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 12:17	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398		mg/Kg		04/19/23 16:35	04/20/23 12:17	1
o-Xylene	<0.00199	U *1	0.00199		mg/Kg		04/19/23 16:35	04/20/23 12:17	1
Xylenes, Total	<0.00398	U *1	0.00398		mg/Kg		04/19/23 16:35	04/20/23 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				04/19/23 16:35	04/20/23 12:17	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				04/19/23 16:35	04/20/23 12:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 20:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/20/23 08:20	04/20/23 20:25	1
o-Terphenyl	102		70 - 130				04/20/23 08:20	04/20/23 20:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540	B	25.0		mg/Kg			04/20/23 10:24	5

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-4 (0.5')

Lab Sample ID: 880-27378-13

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 12:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 12:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 12:37	1
m-Xylene & p-Xylene	<0.00399	U *1	0.00399		mg/Kg		04/19/23 16:35	04/20/23 12:37	1
o-Xylene	<0.00200	U *1	0.00200		mg/Kg		04/19/23 16:35	04/20/23 12:37	1
Xylenes, Total	<0.00399	U *1	0.00399		mg/Kg		04/19/23 16:35	04/20/23 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/19/23 16:35	04/20/23 12:37	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/19/23 16:35	04/20/23 12:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 20:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 20:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	04/20/23 08:20	04/20/23 20:48	1
o-Terphenyl	101		70 - 130	04/20/23 08:20	04/20/23 20:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	505	B	5.02		mg/Kg			04/20/23 10:28	1

Client Sample ID: SW-5 (0.5')

Lab Sample ID: 880-27378-14

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 12:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 12:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 12:58	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398		mg/Kg		04/19/23 16:35	04/20/23 12:58	1
o-Xylene	<0.00199	U *1	0.00199		mg/Kg		04/19/23 16:35	04/20/23 12:58	1
Xylenes, Total	<0.00398	U *1	0.00398		mg/Kg		04/19/23 16:35	04/20/23 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/19/23 16:35	04/20/23 12:58	1
1,4-Difluorobenzene (Surr)	80		70 - 130	04/19/23 16:35	04/20/23 12:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-5 (0.5')

Lab Sample ID: 880-27378-14

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 21:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 21:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				04/20/23 08:20	04/20/23 21:09	1
o-Terphenyl	122		70 - 130				04/20/23 08:20	04/20/23 21:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	379	B	5.02		mg/Kg			04/20/23 10:42	1

Client Sample ID: SW-6 (0.5')

Lab Sample ID: 880-27378-15

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 13:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 13:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 13:18	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398		mg/Kg		04/19/23 16:35	04/20/23 13:18	1
o-Xylene	<0.00199	U *1	0.00199		mg/Kg		04/19/23 16:35	04/20/23 13:18	1
Xylenes, Total	<0.00398	U *1	0.00398		mg/Kg		04/19/23 16:35	04/20/23 13:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				04/19/23 16:35	04/20/23 13:18	1
1,4-Difluorobenzene (Surr)	75		70 - 130				04/19/23 16:35	04/20/23 13:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 21:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 21:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-6 (0.5')

Date Collected: 04/19/23 00:00

Date Received: 04/19/23 16:28

Lab Sample ID: 880-27378-15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				04/20/23 08:20	04/20/23 21:31	1
o-Terphenyl	131	S1+	70 - 130				04/20/23 08:20	04/20/23 21:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	391	B	4.98		mg/Kg			04/20/23 10:47	1

Client Sample ID: SW-7 (0.5')

Date Collected: 04/19/23 00:00

Date Received: 04/19/23 16:28

Lab Sample ID: 880-27378-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 13:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 13:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 13:39	1
m-Xylene & p-Xylene	<0.00399	U *1	0.00399		mg/Kg		04/19/23 16:35	04/20/23 13:39	1
o-Xylene	<0.00200	U *1	0.00200		mg/Kg		04/19/23 16:35	04/20/23 13:39	1
Xylenes, Total	<0.00399	U *1	0.00399		mg/Kg		04/19/23 16:35	04/20/23 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				04/19/23 16:35	04/20/23 13:39	1
1,4-Difluorobenzene (Surr)	73		70 - 130				04/19/23 16:35	04/20/23 13:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 21:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 21:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				04/20/23 08:20	04/20/23 21:53	1
o-Terphenyl	135	S1+	70 - 130				04/20/23 08:20	04/20/23 21:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	636	B	4.99		mg/Kg			04/20/23 10:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-8 (0.5')

Lab Sample ID: 880-27378-17

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:35	04/20/23 13:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:35	04/20/23 13:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/19/23 16:35	04/20/23 13:59	1
m-Xylene & p-Xylene	<0.00402	U *1	0.00402		mg/Kg		04/19/23 16:35	04/20/23 13:59	1
o-Xylene	<0.00201	U *1	0.00201		mg/Kg		04/19/23 16:35	04/20/23 13:59	1
Xylenes, Total	<0.00402	U *1	0.00402		mg/Kg		04/19/23 16:35	04/20/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/19/23 16:35	04/20/23 13:59	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	04/19/23 16:35	04/20/23 13:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 22:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 22:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/20/23 08:20	04/20/23 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	04/20/23 08:20	04/20/23 22:15	1
o-Terphenyl	125		70 - 130	04/20/23 08:20	04/20/23 22:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	396	B	5.04		mg/Kg			04/20/23 10:56	1

Client Sample ID: SW-9 (0.5')

Lab Sample ID: 880-27378-18

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 14:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 14:20	1
m-Xylene & p-Xylene	<0.00401	U *1	0.00401		mg/Kg		04/19/23 16:35	04/20/23 14:20	1
o-Xylene	<0.00200	U *1	0.00200		mg/Kg		04/19/23 16:35	04/20/23 14:20	1
Xylenes, Total	<0.00401	U *1	0.00401		mg/Kg		04/19/23 16:35	04/20/23 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	04/19/23 16:35	04/20/23 14:20	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/19/23 16:35	04/20/23 14:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-9 (0.5')

Lab Sample ID: 880-27378-18

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 22:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 22:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/20/23 08:20	04/20/23 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/20/23 08:20	04/20/23 22:36	1
o-Terphenyl	117		70 - 130				04/20/23 08:20	04/20/23 22:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	798	B	5.00		mg/Kg			04/20/23 11:00	1

Client Sample ID: SW-10 (0.5')

Lab Sample ID: 880-27378-19

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 14:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 14:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/19/23 16:35	04/20/23 14:40	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398		mg/Kg		04/19/23 16:35	04/20/23 14:40	1
o-Xylene	<0.00199	U *1	0.00199		mg/Kg		04/19/23 16:35	04/20/23 14:40	1
Xylenes, Total	<0.00398	U *1	0.00398		mg/Kg		04/19/23 16:35	04/20/23 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/19/23 16:35	04/20/23 14:40	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130				04/19/23 16:35	04/20/23 14:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/20/23 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/23 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 22:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/23 08:20	04/20/23 22:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-10 (0.5')

Lab Sample ID: 880-27378-19

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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		04/20/23 08:20	04/20/23 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	04/20/23 08:20	04/20/23 22:58	1
o-Terphenyl	121		70 - 130	04/20/23 08:20	04/20/23 22:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	274	B	4.99		mg/Kg			04/20/23 11:05	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
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)
880-27378-1	CS-1 (0.5')	108	100
880-27378-1 MS	CS-1 (0.5')	121	93
880-27378-1 MSD	CS-1 (0.5')	114	95
880-27378-2	CS-2 (0.5')	114	102
880-27378-3	CS-3 (0.5')	112	105
880-27378-4	CS-4 (0.5')	123	110
880-27378-5	CS-5 (0.5')	117	108
880-27378-6	CS-6 (0.5')	116	110
880-27378-7	CS-7 (0.5')	109	103
880-27378-8	CS-8 (0.5')	118	105
880-27378-9	CS-9 (0.5')	118	108
880-27378-10	SW-1 (0.5')	115	105
880-27378-11	SW-2 (0.5')	87	77
880-27378-11 MS	SW-2 (0.5')	129	110
880-27378-11 MSD	SW-2 (0.5')	84	115
880-27378-12	SW-3 (0.5')	94	66 S1-
880-27378-13	SW-4 (0.5')	116	85
880-27378-14	SW-5 (0.5')	107	80
880-27378-15	SW-6 (0.5')	102	75
880-27378-16	SW-7 (0.5')	90	73
880-27378-17	SW-8 (0.5')	110	67 S1-
880-27378-18	SW-9 (0.5')	132 S1+	87
880-27378-19	SW-10 (0.5')	109	62 S1-
LCS 880-51535/1-A	Lab Control Sample	122	97
LCS 880-51536/1-A	Lab Control Sample	138 S1+	104
LCSD 880-51535/2-A	Lab Control Sample Dup	122	94
LCSD 880-51536/2-A	Lab Control Sample Dup	92	115
MB 880-51535/5-A	Method Blank	110	84
MB 880-51536/5-A	Method Blank	75	83

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)
880-27378-1	CS-1 (0.5')	115	117
880-27378-1 MS	CS-1 (0.5')	117	104
880-27378-1 MSD	CS-1 (0.5')	105	94
880-27378-2	CS-2 (0.5')	140 S1+	131 S1+
880-27378-3	CS-3 (0.5')	108	103
880-27378-4	CS-4 (0.5')	116	112
880-27378-5	CS-5 (0.5')	140 S1+	129
880-27378-6	CS-6 (0.5')	120	119
880-27378-7	CS-7 (0.5')	226 S1+	224 S1+
880-27378-8	CS-8 (0.5')	119	118

Eurofins Midland

Surrogate Summary

Client: Carmona Resources

Job ID: 880-27378-1

Project/Site: Falcon Federal 001 (03.08.23)

SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**Matrix: Solid****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-27378-9	CS-9 (0.5')	113	111
880-27378-10	SW-1 (0.5')	125	123
880-27378-11	SW-2 (0.5')	132 S1+	125
880-27378-12	SW-3 (0.5')	106	102
880-27378-13	SW-4 (0.5')	105	101
880-27378-14	SW-5 (0.5')	130	122
880-27378-15	SW-6 (0.5')	143 S1+	131 S1+
880-27378-16	SW-7 (0.5')	145 S1+	135 S1+
880-27378-17	SW-8 (0.5')	136 S1+	125
880-27378-18	SW-9 (0.5')	119	117
880-27378-19	SW-10 (0.5')	132 S1+	121
LCS 880-51577/2-A	Lab Control Sample	91	90
LCSD 880-51577/3-A	Lab Control Sample Dup	94	95
MB 880-51577/1-A	Method Blank	143 S1+	149 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51535/5-A

Matrix: Solid

Analysis Batch: 51576

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:34	04/20/23 10:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:34	04/20/23 10:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:34	04/20/23 10:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/19/23 16:34	04/20/23 10:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:34	04/20/23 10:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/19/23 16:34	04/20/23 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/19/23 16:34	04/20/23 10:55	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/19/23 16:34	04/20/23 10:55	1

Lab Sample ID: LCS 880-51535/1-A

Matrix: Solid

Analysis Batch: 51576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1113		mg/Kg		111	70 - 130
Toluene	0.100	0.1075		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1204		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2520		mg/Kg		126	70 - 130
o-Xylene	0.100	0.1235		mg/Kg		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-51535/2-A

Matrix: Solid

Analysis Batch: 51576

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51535

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1086		mg/Kg		109	70 - 130	2	35
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	1	35
Ethylbenzene	0.100	0.1206		mg/Kg		121	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2516		mg/Kg		126	70 - 130	0	35
o-Xylene	0.100	0.1235		mg/Kg		123	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-27378-1 MS

Matrix: Solid

Analysis Batch: 51576

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 51535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0998	0.09999		mg/Kg		100	70 - 130
Toluene	<0.00198	U	0.0998	0.1039		mg/Kg		104	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-27378-1 MS

Matrix: Solid

Analysis Batch: 51576

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 51535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0998	0.1190		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2531		mg/Kg		127	70 - 130
o-Xylene	<0.00198	U	0.0998	0.1222		mg/Kg		122	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-27378-1 MSD

Matrix: Solid

Analysis Batch: 51576

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 51535

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	0.1077		mg/Kg		108	70 - 130	7	35
Toluene	<0.00198	U	0.100	0.1034		mg/Kg		103	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.100	0.1132		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2350		mg/Kg		117	70 - 130	7	35
o-Xylene	<0.00198	U	0.100	0.1132		mg/Kg		113	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-51536/5-A

Matrix: Solid

Analysis Batch: 51575

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/19/23 16:35	04/20/23 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/19/23 16:35	04/20/23 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/19/23 16:35	04/20/23 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	04/19/23 16:35	04/20/23 11:35	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/19/23 16:35	04/20/23 11:35	1

Lab Sample ID: LCS 880-51536/1-A

Matrix: Solid

Analysis Batch: 51575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09347		mg/Kg		93	70 - 130
Toluene	0.100	0.09167		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.1117		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2406		mg/Kg		120	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-51536/1-A

Matrix: Solid

Analysis Batch: 51575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51536

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1214		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-51536/2-A

Matrix: Solid

Analysis Batch: 51575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51536

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	7	35
Toluene	0.100	0.08359		mg/Kg		84	70 - 130	9	35
Ethylbenzene	0.100	0.07821		mg/Kg		78	70 - 130	35	35
m-Xylene & p-Xylene	0.200	0.1578	*1	mg/Kg		79	70 - 130	42	35
o-Xylene	0.100	0.07946	*1	mg/Kg		79	70 - 130	42	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 880-27378-11 MS

Matrix: Solid

Analysis Batch: 51575

Client Sample ID: SW-2 (0.5')

Prep Type: Total/NA

Prep Batch: 51536

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.08550		mg/Kg		85	70 - 130
Toluene	<0.00201	U	0.101	0.08561		mg/Kg		85	70 - 130
Ethylbenzene	<0.00201	U F1	0.101	0.09245		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.202	0.2010		mg/Kg		100	70 - 130
o-Xylene	<0.00201	U F2 F1	0.101	0.1010		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-27378-11 MSD

Matrix: Solid

Analysis Batch: 51575

Client Sample ID: SW-2 (0.5')

Prep Type: Total/NA

Prep Batch: 51536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.09110		mg/Kg		92	70 - 130	6	35
Toluene	<0.00201	U	0.0990	0.07501		mg/Kg		76	70 - 130	13	35
Ethylbenzene	<0.00201	U F1	0.0990	0.06730	F1	mg/Kg		68	70 - 130	31	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.1330	F2 F1	mg/Kg		67	70 - 130	41	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-27378-11 MSD

Matrix: Solid

Analysis Batch: 51575

Client Sample ID: SW-2 (0.5')

Prep Type: Total/NA

Prep Batch: 51536

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene	<0.00201	U F2 F1 *1	0.0990	0.06603	F2 F1	mg/Kg		67	70 - 130	42	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	84		70 - 130								
1,4-Difluorobenzene (Surr)	115		70 - 130								

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

Lab Sample ID: MB 880-51577/1-A

Matrix: Solid

Analysis Batch: 51565

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51577

Analyte							Prepared							
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	04/20/23 08:20	04/20/23 11:28	1
	Diesel Range Organics (Over C10-C28)	<50.0					U	50.0			mg/Kg	04/20/23 08:20	04/20/23 11:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	04/20/23 08:20	04/20/23 11:28	1							
Surrogate							Prepared		Analyzed		Dil Fac			
	MB	MB	Limits				Prepared		Analyzed					
	%Recovery	Qualifier												
1-Chlorooctane	143	S1+					70 - 130	04/20/23 08:20		04/20/23 11:28		1		
o-Terphenyl	149	S1+					70 - 130	04/20/23 08:20		04/20/23 11:28	1			

Lab Sample ID: LCS 880-51577/2-A

Matrix: Solid

Analysis Batch: 51565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51577

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1085		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	754.1		mg/Kg		75	70 - 130		

Lab Sample ID: LCSD 880-51577/3-A

Matrix: Solid

Analysis Batch: 51565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51577

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	969.8		mg/Kg		97	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	769.7		mg/Kg		77	70 - 130	2	20

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-51577/3-A

Matrix: Solid

Analysis Batch: 51565

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51577

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-27378-1 MS

Matrix: Solid

Analysis Batch: 51565

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 51577

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	997	984.4		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	146	F1	997	912.4		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-27378-1 MSD

Matrix: Solid

Analysis Batch: 51565

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 51577

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	997	892.6		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	146	F1	997	813.3	F1	mg/Kg		67	70 - 130	11	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	94		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51539/1-A

Matrix: Solid

Analysis Batch: 51605

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.009		5.00		mg/Kg			04/20/23 08:53	1

Lab Sample ID: LCS 880-51539/2-A

Matrix: Solid

Analysis Batch: 51605

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.3		mg/Kg		101	90 - 110

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-51539/3-A

Matrix: Solid

Analysis Batch: 51605

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	247.2		mg/Kg		99	90 - 110	2	20

Lab Sample ID: 880-27378-1 MS

Matrix: Solid

Analysis Batch: 51605

Client Sample ID: CS-1 (0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	323	B F1	252	549.4		mg/Kg		90	90 - 110		

Lab Sample ID: 880-27378-1 MSD

Matrix: Solid

Analysis Batch: 51605

Client Sample ID: CS-1 (0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	323	B F1	252	537.8	F1	mg/Kg		85	90 - 110	2	20

Lab Sample ID: 880-27378-11 MS

Matrix: Solid

Analysis Batch: 51605

Client Sample ID: SW-2 (0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	404	B	252	667.1		mg/Kg		105	90 - 110		

Lab Sample ID: 880-27378-11 MSD

Matrix: Solid

Analysis Batch: 51605

Client Sample ID: SW-2 (0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	404	B	252	666.5		mg/Kg		105	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 51535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-1	CS-1 (0.5')	Total/NA	Solid	5035	
880-27378-2	CS-2 (0.5')	Total/NA	Solid	5035	
880-27378-3	CS-3 (0.5')	Total/NA	Solid	5035	
880-27378-4	CS-4 (0.5')	Total/NA	Solid	5035	
880-27378-5	CS-5 (0.5')	Total/NA	Solid	5035	
880-27378-6	CS-6 (0.5')	Total/NA	Solid	5035	
880-27378-7	CS-7 (0.5')	Total/NA	Solid	5035	
880-27378-8	CS-8 (0.5')	Total/NA	Solid	5035	
880-27378-9	CS-9 (0.5')	Total/NA	Solid	5035	
880-27378-10	SW-1 (0.5')	Total/NA	Solid	5035	
MB 880-51535/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51535/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51535/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27378-1 MS	CS-1 (0.5')	Total/NA	Solid	5035	
880-27378-1 MSD	CS-1 (0.5')	Total/NA	Solid	5035	

Prep Batch: 51536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-11	SW-2 (0.5')	Total/NA	Solid	5035	
880-27378-12	SW-3 (0.5')	Total/NA	Solid	5035	
880-27378-13	SW-4 (0.5')	Total/NA	Solid	5035	
880-27378-14	SW-5 (0.5')	Total/NA	Solid	5035	
880-27378-15	SW-6 (0.5')	Total/NA	Solid	5035	
880-27378-16	SW-7 (0.5')	Total/NA	Solid	5035	
880-27378-17	SW-8 (0.5')	Total/NA	Solid	5035	
880-27378-18	SW-9 (0.5')	Total/NA	Solid	5035	
880-27378-19	SW-10 (0.5')	Total/NA	Solid	5035	
MB 880-51536/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51536/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51536/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27378-11 MS	SW-2 (0.5')	Total/NA	Solid	5035	
880-27378-11 MSD	SW-2 (0.5')	Total/NA	Solid	5035	

Analysis Batch: 51575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-11	SW-2 (0.5')	Total/NA	Solid	8021B	51536
880-27378-12	SW-3 (0.5')	Total/NA	Solid	8021B	51536
880-27378-13	SW-4 (0.5')	Total/NA	Solid	8021B	51536
880-27378-14	SW-5 (0.5')	Total/NA	Solid	8021B	51536
880-27378-15	SW-6 (0.5')	Total/NA	Solid	8021B	51536
880-27378-16	SW-7 (0.5')	Total/NA	Solid	8021B	51536
880-27378-17	SW-8 (0.5')	Total/NA	Solid	8021B	51536
880-27378-18	SW-9 (0.5')	Total/NA	Solid	8021B	51536
880-27378-19	SW-10 (0.5')	Total/NA	Solid	8021B	51536
MB 880-51536/5-A	Method Blank	Total/NA	Solid	8021B	51536
LCS 880-51536/1-A	Lab Control Sample	Total/NA	Solid	8021B	51536
LCSD 880-51536/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51536
880-27378-11 MS	SW-2 (0.5')	Total/NA	Solid	8021B	51536
880-27378-11 MSD	SW-2 (0.5')	Total/NA	Solid	8021B	51536

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 51576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-1	CS-1 (0.5')	Total/NA	Solid	8021B	51535
880-27378-2	CS-2 (0.5')	Total/NA	Solid	8021B	51535
880-27378-3	CS-3 (0.5')	Total/NA	Solid	8021B	51535
880-27378-4	CS-4 (0.5')	Total/NA	Solid	8021B	51535
880-27378-5	CS-5 (0.5')	Total/NA	Solid	8021B	51535
880-27378-6	CS-6 (0.5')	Total/NA	Solid	8021B	51535
880-27378-7	CS-7 (0.5')	Total/NA	Solid	8021B	51535
880-27378-8	CS-8 (0.5')	Total/NA	Solid	8021B	51535
880-27378-9	CS-9 (0.5')	Total/NA	Solid	8021B	51535
880-27378-10	SW-1 (0.5')	Total/NA	Solid	8021B	51535
MB 880-51535/5-A	Method Blank	Total/NA	Solid	8021B	51535
LCS 880-51535/1-A	Lab Control Sample	Total/NA	Solid	8021B	51535
LCSD 880-51535/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51535
880-27378-1 MS	CS-1 (0.5')	Total/NA	Solid	8021B	51535
880-27378-1 MSD	CS-1 (0.5')	Total/NA	Solid	8021B	51535

Analysis Batch: 51624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-1	CS-1 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-2	CS-2 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-3	CS-3 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-4	CS-4 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-5	CS-5 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-6	CS-6 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-7	CS-7 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-8	CS-8 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-9	CS-9 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-10	SW-1 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-11	SW-2 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-12	SW-3 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-13	SW-4 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-14	SW-5 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-15	SW-6 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-16	SW-7 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-17	SW-8 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-18	SW-9 (0.5')	Total/NA	Solid	Total BTEX	
880-27378-19	SW-10 (0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 51565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-1	CS-1 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-2	CS-2 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-3	CS-3 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-4	CS-4 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-5	CS-5 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-6	CS-6 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-7	CS-7 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-8	CS-8 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-9	CS-9 (0.5')	Total/NA	Solid	8015B NM	51577

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 51565 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-10	SW-1 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-11	SW-2 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-12	SW-3 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-13	SW-4 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-14	SW-5 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-15	SW-6 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-16	SW-7 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-17	SW-8 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-18	SW-9 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-19	SW-10 (0.5')	Total/NA	Solid	8015B NM	51577
MB 880-51577/1-A	Method Blank	Total/NA	Solid	8015B NM	51577
LCS 880-51577/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51577
LCSD 880-51577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51577
880-27378-1 MS	CS-1 (0.5')	Total/NA	Solid	8015B NM	51577
880-27378-1 MSD	CS-1 (0.5')	Total/NA	Solid	8015B NM	51577

Prep Batch: 51577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-1	CS-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-2	CS-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-3	CS-3 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-4	CS-4 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-5	CS-5 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-6	CS-6 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-7	CS-7 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-8	CS-8 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-9	CS-9 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-10	SW-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-11	SW-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-12	SW-3 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-13	SW-4 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-14	SW-5 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-15	SW-6 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-16	SW-7 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-17	SW-8 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-18	SW-9 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-19	SW-10 (0.5')	Total/NA	Solid	8015NM Prep	
MB 880-51577/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51577/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27378-1 MS	CS-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-27378-1 MSD	CS-1 (0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-1	CS-1 (0.5')	Total/NA	Solid	8015 NM	
880-27378-2	CS-2 (0.5')	Total/NA	Solid	8015 NM	
880-27378-3	CS-3 (0.5')	Total/NA	Solid	8015 NM	
880-27378-4	CS-4 (0.5')	Total/NA	Solid	8015 NM	
880-27378-5	CS-5 (0.5')	Total/NA	Solid	8015 NM	
880-27378-6	CS-6 (0.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 51683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-7	CS-7 (0.5')	Total/NA	Solid	8015 NM	
880-27378-8	CS-8 (0.5')	Total/NA	Solid	8015 NM	
880-27378-9	CS-9 (0.5')	Total/NA	Solid	8015 NM	
880-27378-10	SW-1 (0.5')	Total/NA	Solid	8015 NM	
880-27378-11	SW-2 (0.5')	Total/NA	Solid	8015 NM	
880-27378-12	SW-3 (0.5')	Total/NA	Solid	8015 NM	
880-27378-13	SW-4 (0.5')	Total/NA	Solid	8015 NM	
880-27378-14	SW-5 (0.5')	Total/NA	Solid	8015 NM	
880-27378-15	SW-6 (0.5')	Total/NA	Solid	8015 NM	
880-27378-16	SW-7 (0.5')	Total/NA	Solid	8015 NM	
880-27378-17	SW-8 (0.5')	Total/NA	Solid	8015 NM	
880-27378-18	SW-9 (0.5')	Total/NA	Solid	8015 NM	
880-27378-19	SW-10 (0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-1	CS-1 (0.5')	Soluble	Solid	DI Leach	
880-27378-2	CS-2 (0.5')	Soluble	Solid	DI Leach	
880-27378-3	CS-3 (0.5')	Soluble	Solid	DI Leach	
880-27378-4	CS-4 (0.5')	Soluble	Solid	DI Leach	
880-27378-5	CS-5 (0.5')	Soluble	Solid	DI Leach	
880-27378-6	CS-6 (0.5')	Soluble	Solid	DI Leach	
880-27378-7	CS-7 (0.5')	Soluble	Solid	DI Leach	
880-27378-8	CS-8 (0.5')	Soluble	Solid	DI Leach	
880-27378-9	CS-9 (0.5')	Soluble	Solid	DI Leach	
880-27378-10	SW-1 (0.5')	Soluble	Solid	DI Leach	
880-27378-11	SW-2 (0.5')	Soluble	Solid	DI Leach	
880-27378-12	SW-3 (0.5')	Soluble	Solid	DI Leach	
880-27378-13	SW-4 (0.5')	Soluble	Solid	DI Leach	
880-27378-14	SW-5 (0.5')	Soluble	Solid	DI Leach	
880-27378-15	SW-6 (0.5')	Soluble	Solid	DI Leach	
880-27378-16	SW-7 (0.5')	Soluble	Solid	DI Leach	
880-27378-17	SW-8 (0.5')	Soluble	Solid	DI Leach	
880-27378-18	SW-9 (0.5')	Soluble	Solid	DI Leach	
880-27378-19	SW-10 (0.5')	Soluble	Solid	DI Leach	
MB 880-51539/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51539/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51539/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27378-1 MS	CS-1 (0.5')	Soluble	Solid	DI Leach	
880-27378-1 MSD	CS-1 (0.5')	Soluble	Solid	DI Leach	
880-27378-11 MS	SW-2 (0.5')	Soluble	Solid	DI Leach	
880-27378-11 MSD	SW-2 (0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 51605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-1	CS-1 (0.5')	Soluble	Solid	300.0	51539
880-27378-2	CS-2 (0.5')	Soluble	Solid	300.0	51539
880-27378-3	CS-3 (0.5')	Soluble	Solid	300.0	51539
880-27378-4	CS-4 (0.5')	Soluble	Solid	300.0	51539

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 51605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27378-5	CS-5 (0.5')	Soluble	Solid	300.0	51539
880-27378-6	CS-6 (0.5')	Soluble	Solid	300.0	51539
880-27378-7	CS-7 (0.5')	Soluble	Solid	300.0	51539
880-27378-8	CS-8 (0.5')	Soluble	Solid	300.0	51539
880-27378-9	CS-9 (0.5')	Soluble	Solid	300.0	51539
880-27378-10	SW-1 (0.5')	Soluble	Solid	300.0	51539
880-27378-11	SW-2 (0.5')	Soluble	Solid	300.0	51539
880-27378-12	SW-3 (0.5')	Soluble	Solid	300.0	51539
880-27378-13	SW-4 (0.5')	Soluble	Solid	300.0	51539
880-27378-14	SW-5 (0.5')	Soluble	Solid	300.0	51539
880-27378-15	SW-6 (0.5')	Soluble	Solid	300.0	51539
880-27378-16	SW-7 (0.5')	Soluble	Solid	300.0	51539
880-27378-17	SW-8 (0.5')	Soluble	Solid	300.0	51539
880-27378-18	SW-9 (0.5')	Soluble	Solid	300.0	51539
880-27378-19	SW-10 (0.5')	Soluble	Solid	300.0	51539
MB 880-51539/1-A	Method Blank	Soluble	Solid	300.0	51539
LCS 880-51539/2-A	Lab Control Sample	Soluble	Solid	300.0	51539
LCSD 880-51539/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51539
880-27378-1 MS	CS-1 (0.5')	Soluble	Solid	300.0	51539
880-27378-1 MSD	CS-1 (0.5')	Soluble	Solid	300.0	51539
880-27378-11 MS	SW-2 (0.5')	Soluble	Solid	300.0	51539
880-27378-11 MSD	SW-2 (0.5')	Soluble	Solid	300.0	51539

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (0.5')

Lab Sample ID: 880-27378-1

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 11:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 15:20	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 09:06	SMC	EET MID

Client Sample ID: CS-2 (0.5')

Lab Sample ID: 880-27378-2

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 11:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 16:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 09:20	SMC	EET MID

Client Sample ID: CS-3 (0.5')

Lab Sample ID: 880-27378-3

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 16:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 09:24	SMC	EET MID

Client Sample ID: CS-4 (0.5')

Lab Sample ID: 880-27378-4

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 12:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-4 (0.5')

Lab Sample ID: 880-27378-4

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 17:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 09:29	SMC	EET MID

Client Sample ID: CS-5 (0.5')

Lab Sample ID: 880-27378-5

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 17:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 09:34	SMC	EET MID

Client Sample ID: CS-6 (0.5')

Lab Sample ID: 880-27378-6

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 13:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 17:52	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 09:47	SMC	EET MID

Client Sample ID: CS-7 (0.5')

Lab Sample ID: 880-27378-7

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 13:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 18:14	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (0.5')

Lab Sample ID: 880-27378-7

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 09:52	SMC	EET MID

Client Sample ID: CS-8 (0.5')

Lab Sample ID: 880-27378-8

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 13:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 18:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 09:56	SMC	EET MID

Client Sample ID: CS-9 (0.5')

Lab Sample ID: 880-27378-9

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 14:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 18:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 10:01	SMC	EET MID

Client Sample ID: SW-1 (0.5')

Lab Sample ID: 880-27378-10

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51535	04/19/23 16:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51576	04/20/23 14:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 19:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 10:05	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (0.5')

Lab Sample ID: 880-27378-11

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 20:03	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 10:10	SMC	EET MID

Client Sample ID: SW-3 (0.5')

Lab Sample ID: 880-27378-12

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 20:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51605	04/20/23 10:24	SMC	EET MID

Client Sample ID: SW-4 (0.5')

Lab Sample ID: 880-27378-13

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 20:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 10:28	SMC	EET MID

Client Sample ID: SW-5 (0.5')

Lab Sample ID: 880-27378-14

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-5 (0.5')

Lab Sample ID: 880-27378-14

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 21:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 10:42	SMC	EET MID

Client Sample ID: SW-6 (0.5')

Lab Sample ID: 880-27378-15

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 21:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 10:47	SMC	EET MID

Client Sample ID: SW-7 (0.5')

Lab Sample ID: 880-27378-16

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 21:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 10:51	SMC	EET MID

Client Sample ID: SW-8 (0.5')

Lab Sample ID: 880-27378-17

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 22:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Client Sample ID: SW-8 (0.5')

Lab Sample ID: 880-27378-17

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 10:56	SMC	EET MID

Client Sample ID: SW-9 (0.5')

Lab Sample ID: 880-27378-18

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 14:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 22:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 11:00	SMC	EET MID

Client Sample ID: SW-10 (0.5')

Lab Sample ID: 880-27378-19

Date Collected: 04/19/23 00:00

Matrix: Solid

Date Received: 04/19/23 16:28

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	51536	04/19/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51575	04/20/23 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51624	04/20/23 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			51683	04/21/23 10:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51577	04/20/23 08:20	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51565	04/20/23 22:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51539	04/19/23 17:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51605	04/20/23 11:05	SMC	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: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
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	T104704400-22-25	06-30-23
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: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Falcon Federal 001 (03.08.23)

Job ID: 880-27378-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27378-1	CS-1 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-2	CS-2 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-3	CS-3 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-4	CS-4 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-5	CS-5 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-6	CS-6 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-7	CS-7 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-8	CS-8 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-9	CS-9 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-10	SW-1 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-11	SW-2 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-12	SW-3 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-13	SW-4 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-14	SW-5 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-15	SW-6 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-16	SW-7 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-17	SW-8 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-18	SW-9 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28
880-27378-19	SW-10 (0.5')	Solid	04/19/23 00:00	04/19/23 16:28

Work Order No: 27378

Page 1 of 2

Project Manager: Conner Moehring		Bill to: (if different) Carmona Resources	
Company Name: Carmona Resources		Company Name:	
Address: 310 W Wall St Ste 500		Address:	
City, State ZIP: Midland, TX 79701		City, State ZIP:	
Phone: 432-813-6823		Email: mcarmona@carmonaresources.com	

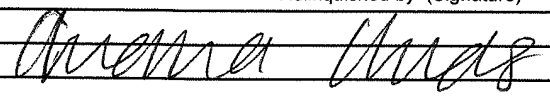
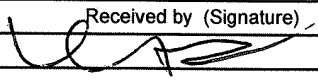
Project Name: Falcon Federal 001 (03 08 23)		Turn Around		ANALYSIS REQUEST																Preservative Codes					
Project Number: 2007		☐ Routine ☒ Rush		Pres. Code																		None NO DI Water: H ₂ O			
Project Location: Lea County, New Mexico		Due Date: 24 hr																				Cool Cool MeOH Me			
Sampler's Name: MM																						HCL. HC HNO ₃ HN			
PO #:																						H ₂ SO ₄ H ₂ NaOH Na			
SAMPLE RECEIPT		Temp Blank Yes ☒ No ☐		Wet Ice Yes ☒ No ☐		Parameters																		H ₃ PO ₄ HP	
Received Intact Yes ☒ No ☐		Thermometer ID																						NaHSO ₄ NABIS	
Cooler Custody Seals Yes ☒ No ☐ N/A		Correction Factor:																						Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals Yes ☒ No ☐ N/A		Temperature Reading																						Zn Acetate+NaOH Zn	
Total Containers:		Corrected Temperature																						NaOH+Ascorbic Acid SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments
CS-1 (0 5')	4/19/2023		X		C	1	X	X	X														402
CS-2 (0 5')	4/19/2023		X		C	1	X	X	X														
CS-3 (0 5')	4/19/2023		X		C	1	X	X	X														
CS-4 (0 5')	4/19/2023		X		C	1	X	X	X														
CS-5 (0 5')	4/19/2023		X		C	1	X	X	X														
CS-6 (0 5')	4/19/2023		X		C	1	X	X	X														
CS-7 (0 5')	4/19/2023		X		C	1	X	X	X														
CS-8 (0 5')	4/19/2023		X		C	1	X	X	X														
CS-9 (0 5')	4/19/2023		X		C	1	X	X	X														
SW-1 (0 5')	4/19/2023		X		C	1	X	X	X														



880-27378 Chain of Custody

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

Relinquished by (Signature)		Date/Time		Received by (Signature)		Date/Time	
		4-19-23 1628					

Work Order No: 27378

Page 2 of 2

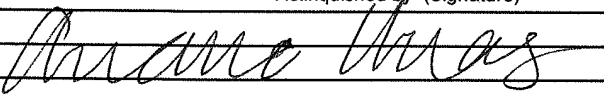
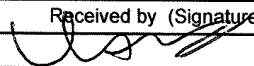
Project Manager	Conner Moehring	Bill to (if different)	Carmona Resources
Company Name	Carmona Resources	Company Name	
Address	310 W Wall St Ste 500	Address	
City, State ZIP	Midland, TX 79701	City State ZIP	
Phone	432-813-6823	Email	mcarmona@carmonaresources.com

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

Project Name	Falcon Federal 001 (03 08 23)		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number	2007		☐ Routine ☒ Rush																			None NO DI Water H ₂ O					
Project Location	Lea County, New Mexico		Due Date	24 hr																		Cool Cool MeOH Me					
Sampler's Name	MM																					HCL HC HNO ₃ HN					
PO #:																					H ₂ SO ₄ H ₂ NaOH Na						
SAMPLE RECEIPT		Temp Blank	Yes No	Wet Ice	Yes No	Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0																		
Received Intact	Yes No	Thermometer ID																							H ₃ PO ₄ HP		
Cooler Custody Seals	Yes No N/A	Correction Factor																							NaHSO ₄ NABIS		
Sample Custody Seals	Yes No N/A	Temperature Reading																							Na ₂ S ₂ O ₃ NaSO ₃		
Total Containers		Corrected Temperature																							Zn Acetate+NaOH Zn		
																					NaOH+Ascorbic Acid SAPC						
Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont																Sample Comments					
SW-2 (0 5')	4/19/2023		X		C	1	X	X	X																		
SW-3 (0 5')	4/19/2023		X		C	1	X	X	X																		
SW-4 (0 5')	4/19/2023		X		C	1	X	X	X																		
SW-5 (0 5')	4/19/2023		X		C	1	X	X	X																		
SW-6 (0 5')	4/19/2023		X		C	1	X	X	X																		
SW-7 (0 5')	4/19/2023		X		C	1	X	X	X																		
SW-8 (0 5')	4/19/2023		X		C	1	X	X	X																		
SW-9 (0 5')	4/19/2023		X		C	1	X	X	X																		
SW-10 (0 5')	4/19/2023		X		C	1	X	X	X																		

Loc: 880
27378

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	4-19-23 1623		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-27378-1

SDG Number: Lea County, New Mexico

Login Number: 27378

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



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

April 26, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: FALCON FEDERAL 001 (03.08.23)

Enclosed are the results of analyses for samples received by the laboratory on 04/25/23 9:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 04/25/2023
 Reported: 04/26/2023
 Project Name: FALCON FEDERAL 001 (03.08.23)
 Project Number: 2007
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 1 (1') (H231997-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2023	ND	1.70	85.1	2.00	1.44	
Toluene*	<0.050	0.050	04/25/2023	ND	1.89	94.4	2.00	0.451	
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	1.95	97.6	2.00	0.282	
Total Xylenes*	<0.150	0.150	04/25/2023	ND	5.93	98.9	6.00	1.23	
Total BTEX	<0.300	0.300	04/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	217	109	200	3.26	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 04/25/2023
 Reported: 04/26/2023
 Project Name: FALCON FEDERAL 001 (03.08.23)
 Project Number: 2007
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (1') (H231997-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.70	85.1	2.00	1.44		
Toluene*	<0.050	0.050	04/25/2023	ND	1.89	94.4	2.00	0.451		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	1.95	97.6	2.00	0.282		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	5.93	98.9	6.00	1.23		
Total BTEx	<0.300	0.300	04/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/25/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	217	109	200	3.26	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 04/25/2023
 Reported: 04/26/2023
 Project Name: FALCON FEDERAL 001 (03.08.23)
 Project Number: 2007
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 (1') (H231997-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.70	85.1	2.00	1.44		
Toluene*	<0.050	0.050	04/25/2023	ND	1.89	94.4	2.00	0.451		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	1.95	97.6	2.00	0.282		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	5.93	98.9	6.00	1.23		
Total BTEX	<0.300	0.300	04/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	217	109	200	3.26	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 04/25/2023
 Reported: 04/26/2023
 Project Name: FALCON FEDERAL 001 (03.08.23)
 Project Number: 2007
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 7 (1') (H231997-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.70	85.1	2.00	1.44		
Toluene*	<0.050	0.050	04/25/2023	ND	1.89	94.4	2.00	0.451		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	1.95	97.6	2.00	0.282		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	5.93	98.9	6.00	1.23		
Total BTEx	<0.300	0.300	04/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	217	109	200	3.26	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 04/25/2023
 Reported: 04/26/2023
 Project Name: FALCON FEDERAL 001 (03.08.23)
 Project Number: 2007
 Project Location: LEA COUNTY, NEW MEXICO

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 9 (1') (H231997-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.70	85.1	2.00	1.44		
Toluene*	<0.050	0.050	04/25/2023	ND	1.89	94.4	2.00	0.451		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	1.95	97.6	2.00	0.282		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	5.93	98.9	6.00	1.23		
Total BTEx	<0.300	0.300	04/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/25/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	217	109	200	3.26	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	3.33	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 1231997

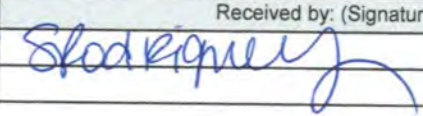
Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

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

Project Name:		Falcon Federal 001 (03.08.23)		Turn Around		ANALYSIS REQUEST																Preservative Codes									
Project Number:		2007		☐ Routine ☒ Rush		Pres. Code																		None: NO DI Water: H ₂ O							
Project Location		Lea County, New Mexico		Due Date:		24 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 ☐		Wet Ice:		Yes ☒ No ☐																				H ₃ PO ₄ : HP			
Received Intact:		Yes ☒ No ☐		Thermometer ID:		113																				NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes ☒ No ☐ N/A		Correction Factor:		-0.10°C																				Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes ☒ No ☐ N/A		Temperature Reading:		3.8°C																				Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:		3.2°C																				NaOH+Ascorbic Acid: SAPC					
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																		Sample Comments	
CS-1 (1')		4/24/2023				X				C		1		X X X																1	
SW-1 (1')		4/24/2023				X				C		1		X X X																	
SW-3 (1')		4/24/2023				X				C		1		X X X																	
SW-7 (1')		4/24/2023				X				C		1		X X X																	
SW-9 (1')		4/24/2023				X				C		1		X X X																1430	

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

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
		4/25/23 0905					

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 222583

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 222583
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/18/2023