

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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> 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>Patricia Espinoza</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Spill Calculation - On-Pad Surface Pool Spill

*Received by OCD: 7/18/2024 11:36:16 AM**Page 3 of 131*

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	4	4	0.1	16.00	0.02	0.00	0.02
Rectangle B				0.00	0.00	0.00	0.00
Rectangle C				0.00	0.00	0.00	0.00
Rectangle D				0.00	0.00	0.00	0.00
Rectangle E				0.00	0.00	0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00
Total Surface Pool Volume Released, Release to Soil/Caliche:							0.0237

Released to Imaging: 8/6/2024 1:59:24 PM



SITE INFORMATION

Closure Report
Copperhead 31 Federal Com 003H
Eddy County, New Mexico
Incident ID: nAPP2411129556
Unit A Sec 30 T26S R29E
32.0198°, -104.0182°

Crude Oil Release
Point of Release: Equipment Failure Resulting in Flare Fire
Release Date: 04.18.2024
Volume Released: 0.0237 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



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July 17, 2024

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

Re: Closure Report
Copperhead 31 Fed 3H Flare Fire (4.18.24)
Concho Operating, LLC
Incident ID: nAPP2411129556
Site Location: Unit A, S30, T26S, R29E
(Lat 32.0198°, Long -104.0182°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Copperhead 31 Fed 3H Flare Fire (4.18.24). The site is located at 32.0198°, -104.0182° within Unit A, S30, T26S, and R29E, in Eddy 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 April 18, 2024, due to equipment failure, resulting in a flare fire. It resulted in approximately zero point zero two three seven (0.0237) barrels of crude oil being released and zero (0) barrels of crude oil being 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 medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known groundwater determination bore is within a 0.50-mile radius of the location. The closest groundwater determination bore is approximately 0.36 miles Southwest of the site in S30, T26S, R29E and was drilled in 2022. The bore was drilled to a reported depth of 55' feet below the ground surface (ft bgs) April 25, 2022. On April 29, 2022, the bore was gauged with no detection of groundwater or moisture. A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

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



- Chloride: 600 mg/kg.

4.0 Site Assessment Activities

On June 3, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) vertical sample point (S-1) and five (5) horizontal sample points (H-1 through H-5) were advanced to depths ranging from the surface to 1' bgs inside the release area to assess the vertical and horizontal extent. 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

On June 25, 2024, Carmona Resources was on site to conduct excavation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via the NMOCD web portal, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of one (1) confirmation floor sample (CS-1) and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. 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. All collected samples were analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. Refer to Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

Before the excavation was backfilled, a composite sample of the backfill material was collected to ensure the material was clean per NMOCD standards. The pit sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 5 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 release. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

A handwritten signature in black ink, appearing to read "Mike Carmona".

Mike Carmona
Environmental Manager

A handwritten signature in black ink, appearing to read "Conner Moehring".

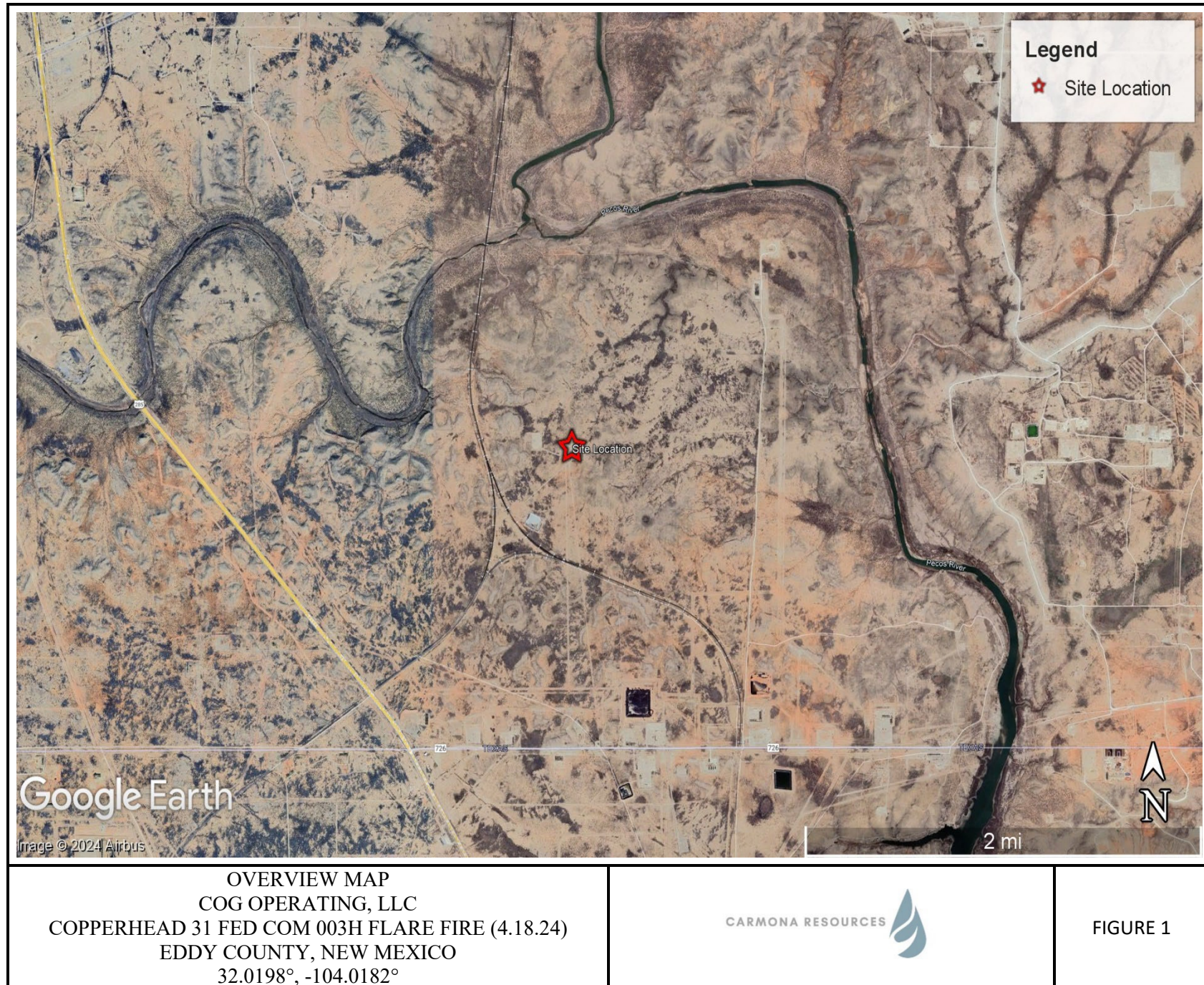
Conner Moehring
Sr. Project Manager

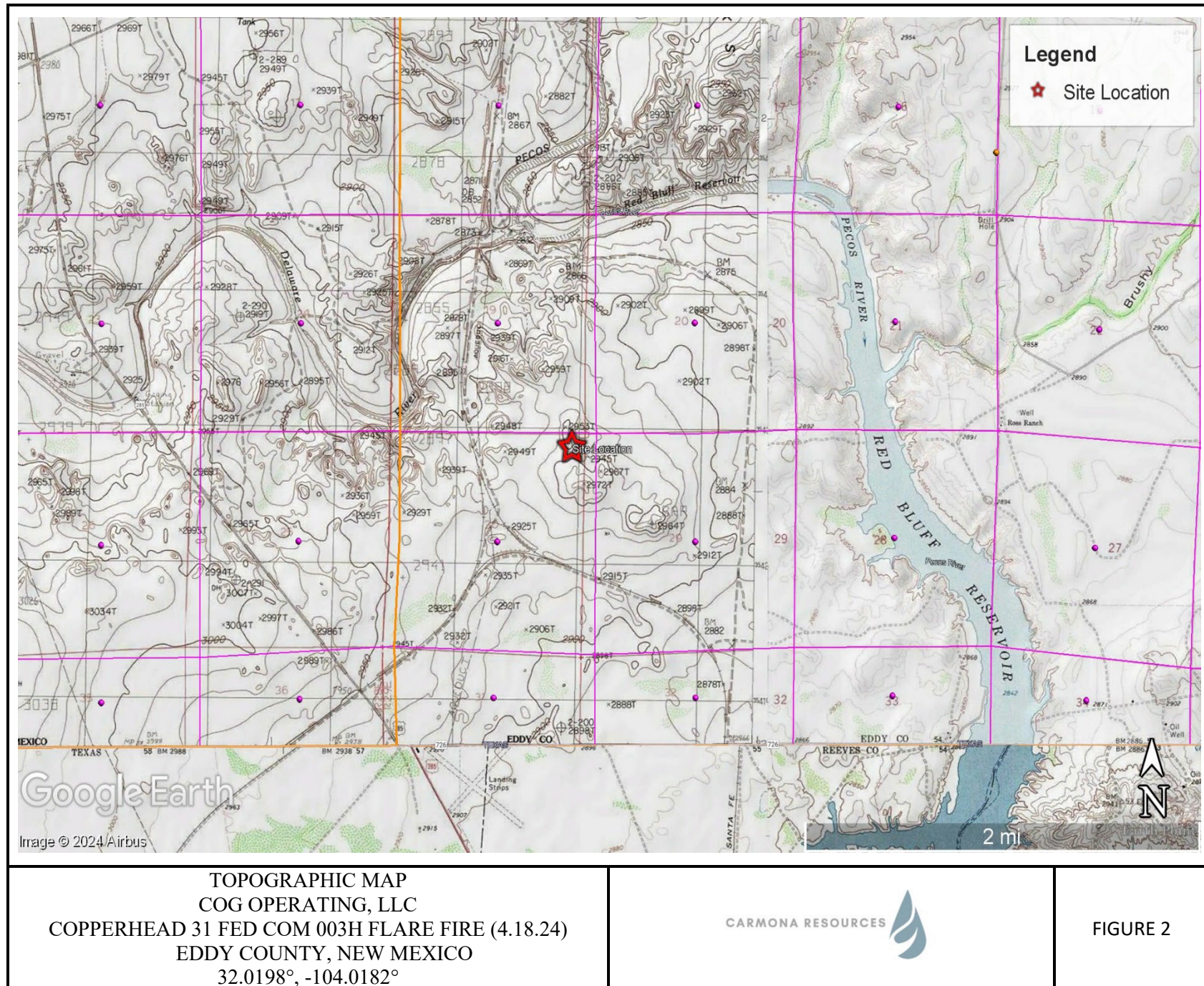
310 West Wall Street, Suite 500
Midland, Texas 79701
432.813.1992

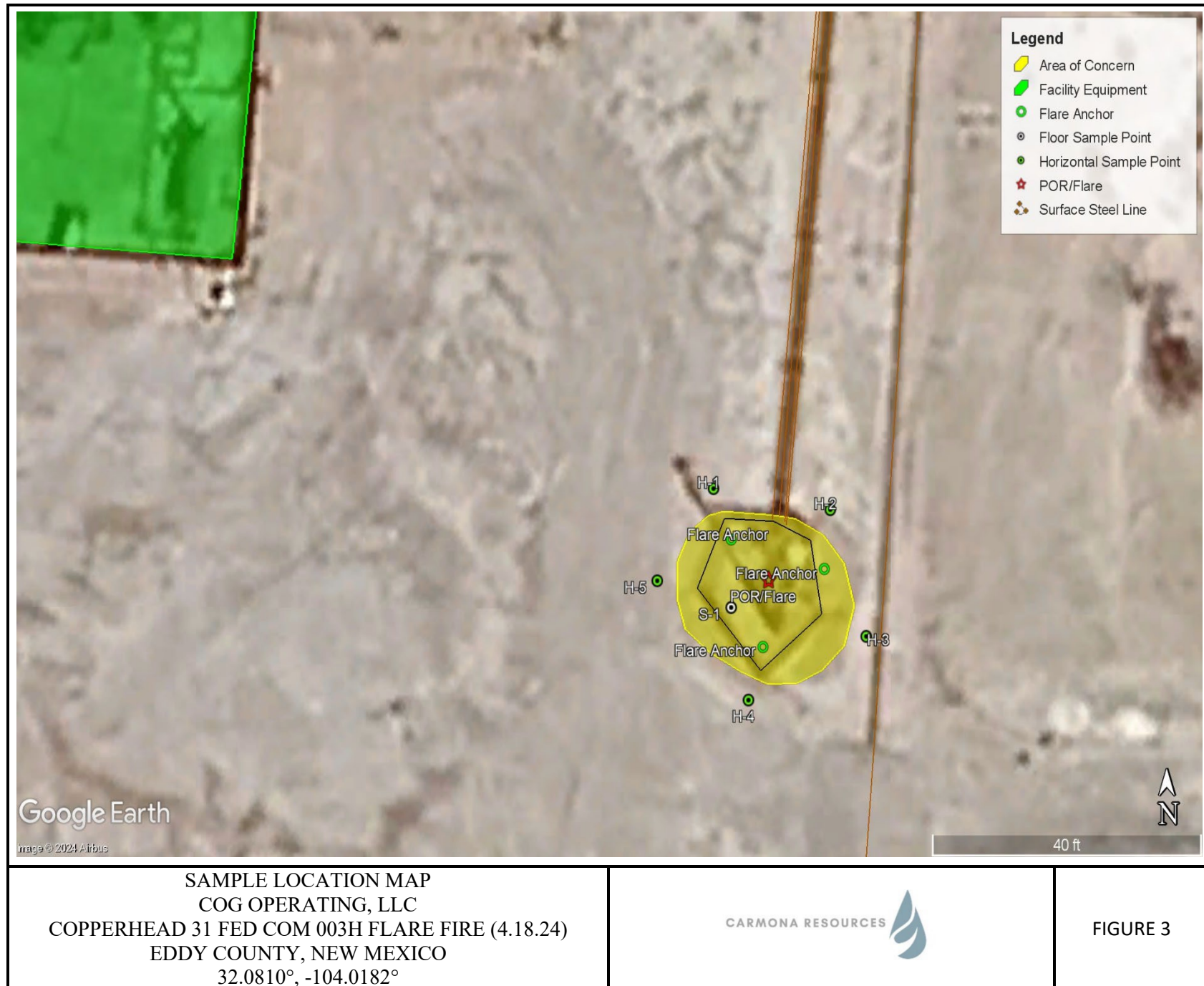
FIGURES

CARMONA RESOURCES











APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating
Copperhead 31 Fed 3H Flare Fire (04.18.24)
Eddy 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	6/3/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	361
H-1	6/3/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	307
H-2	6/3/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00398	903
	6/25/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	45.2
H-3	6/3/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	104.0
H-4	6/3/2024	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	116
H-5	6/3/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	375.0
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
COG Operating
Copperhead 31 Fed 3H Flare Fire (04.18.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	6/25/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	34.1
SW-1	6/25/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	27.7
SW-2	6/25/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	7.46
SW-3	6/25/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	34.0
SW-4	6/25/2024	0-1	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	31.0
TPLT Astronaut Pit	5/8/2024	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
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 Floor Sample

(SW) Confirmation Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

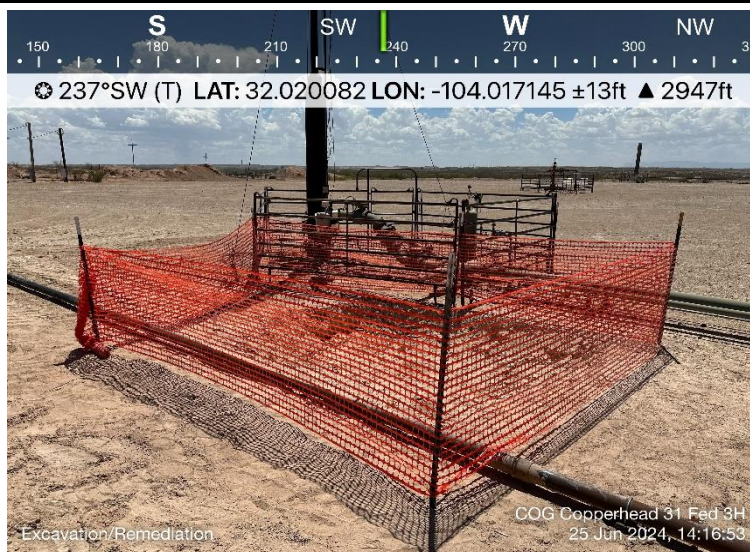
COG Operating Copperhead 31 Federal Com 003H

Photograph No. 1

Facility: Copperhead 31 Federal Com 003H
(4.18.24)

County: Eddy County, New Mexico

Description:
View Southwest, area of H-2.



Photograph No. 2

Facility: Copperhead 31 Federal Com 003H
(4.18.24)

County: Eddy County, New Mexico

Description:
View South, area of SW-1.



Photograph No. 3

Facility: Copperhead 31 Federal Com 003H
(4.18.24)

County: Eddy County, New Mexico

Description:
View South.



APPENDIX C

CARMONA RESOURCES



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 335557

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 335557
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Copperhead 31 Federal Com #3H
Date Release Discovered	04/18/2024
Surface Owner	Federal

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

Nature and Volume of Release <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Other Other (Specify) Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 335557

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 335557
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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ACKNOWLEDGMENTS

Action 335557

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 335557
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

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

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CONDITIONS

Action 335557

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 335557
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jacquih	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/20/2024

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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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> 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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> 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>Patricia Zapanta</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Spill Calculation - On-Pad Surface Pool Spill

Received by OCD: 7/18/2024 11:36:16 AM

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Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	4	4	0.1	16.00	0.02	0.00	0.02
Rectangle B				0.00	0.00	0.00	0.00
Rectangle C				0.00	0.00	0.00	0.00
Rectangle D				0.00	0.00	0.00	0.00
Rectangle E				0.00	0.00	0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00
Total Surface Pool Volume Released, Release to Soil/Caliche:							0.0237

Released to Imaging: 8/6/2024 1:59:24 PM

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: Jacqui Harris 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: _____

Printed Name: _____ Title: _____

APPENDIX D

CARMONA RESOURCES



Legend

- 0.36 Miles
- 0.50 Mile Radius
- Copperhead 31 Federal Com #3H (04.18.2024)
- Groundwater Determination Bore



medium karst

COG Operating

Legend

- Copperhead 31 Federal Com #3H (04.18.2024)
- Medium

Copperhead 31 Federal Com #3H (04.18.2024)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 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
C 04630 POD1	CUB	ED		3	4	3	22	26S	29E	596792	3543275	3987			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 592809.53

Northing (Y): 3543071.14

Radius: 4000

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.

7/16/24 3:49 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



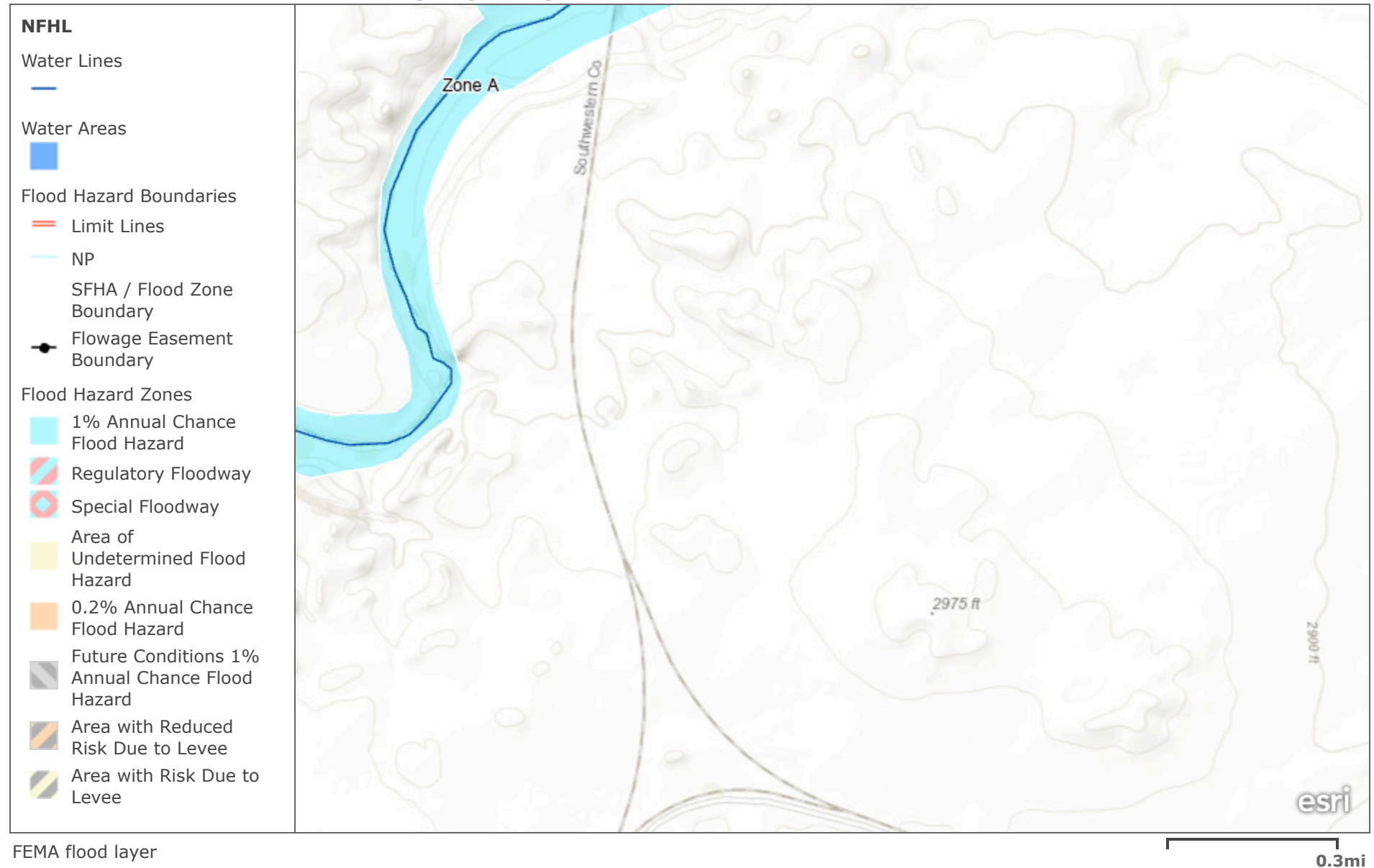
Project Name :	COG - Copperhead Fee A 3H (02.08.22)	Date :	Monday, April 25, 2022
Project No. :	1023	Sampler :	Lane Scarborough
Location :	Eddy County, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.016146, -104.021411	Method :	Air Rotary
Elevation :	2,935'		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Light Brown soft clayey sand, with 20% medium loose sub angular sand, dry, some organics (SC)		50		(50') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
5		(5') - Light Brown soft clayey sand, with 20% medium loose sub angular sand, dry, some organics (SC)		55		(55') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
10		(10') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)		60			
15		(15') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)		65			
20		(20') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)		70			
25		(25') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)		75			
30		(30') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)		80			
35		(35') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)		85			
40		(40') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)		90			
45		(45') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)		95			
50				105			

Comments : Boring terminated at 55' at 10:00 AM Central Time with no presence of groundwater or moisture.

Well gauged on 4/29/22 at 11:00 AM Central Time with no detection of groundwater or moisture

FEMA National Flood Hazard Layer (NFHL)



FEMA flood layer

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)



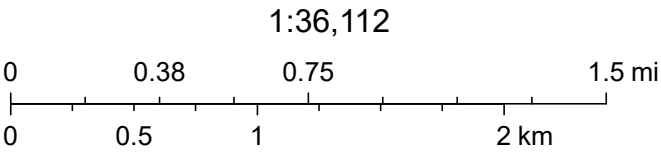
Maxar | Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Copperhead 31 Federal Com #3H (04.18.2024)



7/16/2024, 4:47:30 PM

- OSW Water Bodys
- OSE Streams



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

APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/7/2024 3:38:45 PM

JOB DESCRIPTION

Copperhead 31 Fed 3H Flare Fire (4.18.24)
Eddy County, New Mexico

JOB NUMBER

880-44253-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
6/7/2024 3:38:45 PM

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

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Laboratory Job ID: 880-44253-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1

Job ID: 880-44253-1

Eurofins Midland

Job Narrative 880-44253-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The sample was received on 6/4/2024 12:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-44253-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-82244 and analytical batch 880-82547 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-82244/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-82244 and analytical batch 880-82547 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44253-1
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		06/04/24 12:40	06/04/24 15:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/04/24 12:40	06/04/24 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/04/24 12:40	06/04/24 15:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/04/24 12:40	06/04/24 15:54	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			06/04/24 15:54	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			06/06/24 15:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				06/03/24 19:14	06/06/24 15:20	1
o-Terphenyl	86		70 - 130				06/03/24 19:14	06/06/24 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		49.8		mg/Kg			06/06/24 14:28	10

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-44241-A-1-A MS	Matrix Spike	104	101
880-44241-A-1-B MSD	Matrix Spike Duplicate	105	102
880-44253-1	S-1 (0-1')	106	95
LCS 880-82265/1-A	Lab Control Sample	104	101
LCSD 880-82265/2-A	Lab Control Sample Dup	103	101
MB 880-82265/5-A	Method Blank	104	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44253-1	S-1 (0-1')	97	86
890-6733-A-1-C MS	Matrix Spike	86	85
890-6733-A-1-D MSD	Matrix Spike Duplicate	88	86
LCS 880-82244/2-A	Lab Control Sample	126	133 S1+
LCSD 880-82244/3-A	Lab Control Sample Dup	107	113
MB 880-82244/1-A	Method Blank	109	112
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources

Job ID: 880-44253-1

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-82265/5-A

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 82265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/04/24 12:07	06/04/24 14:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/04/24 12:07	06/04/24 14:10	1

Lab Sample ID: LCS 880-82265/1-A

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.09133		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09576		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09784		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-82265/2-A

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82265

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1146		mg/Kg		115	70 - 130	13	35
Toluene	0.100	0.1034		mg/Kg		103	70 - 130	12	35
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2218		mg/Kg		111	70 - 130	12	35
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-44241-A-1-A MS

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 82265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1003		mg/Kg		101	70 - 130
Toluene	<0.00199	U	0.0996	0.09035		mg/Kg		91	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44241-A-1-A MS
Matrix: Solid
Analysis Batch: 82256

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 82265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09423		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1936		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09708		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 880-44241-A-1-B MSD
Matrix: Solid
Analysis Batch: 82256

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 82265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1000		mg/Kg		99	70 - 130	0	35
Toluene	<0.00199	U	0.101	0.08801		mg/Kg		87	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.08931		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1818		mg/Kg		90	70 - 130	6	35
o-Xylene	<0.00199	U	0.101	0.09097		mg/Kg		90	70 - 130	6	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-82244/1-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 82244

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		06/03/24 19:14	06/06/24 10:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: LCS 880-82244/2-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1270		mg/Kg		127	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1232		mg/Kg		123	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-82244/2-A

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82244

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: LCSD 880-82244/3-A

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82244

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1068		mg/Kg		107	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130	19	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-6733-A-1-C MS

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 82244

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	997	703.8		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	695.4	F1	mg/Kg		67	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-6733-A-1-D MSD

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 82244

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	997	753.8		mg/Kg		76	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	729.0		mg/Kg		71	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	86		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-82330/1-A										Client Sample ID: Method Blank	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 82407											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			06/06/24 13:57	1		

Lab Sample ID: LCS 880-82330/2-A										Client Sample ID: Lab Control Sample	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 82407											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-82330/3-A										Client Sample ID: Lab Control Sample Dup	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 82407											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	258.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-44252-A-1-D MS										Client Sample ID: Matrix Spike	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 82407											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	93.4		248	353.3		mg/Kg		105	90 - 110		

Lab Sample ID: 880-44252-A-1-E MSD										Client Sample ID: Matrix Spike Duplicate	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 82407											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	93.4		248	354.3		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 82256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	8021B	82265
MB 880-82265/5-A	Method Blank	Total/NA	Solid	8021B	82265
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	8021B	82265
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	82265
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	82265
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	82265

Prep Batch: 82265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	5035	
MB 880-82265/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 82386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 82244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 82547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	8015B NM	82244
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015B NM	82244
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	82244
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	82244
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	82244
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	82244

Analysis Batch: 82676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 82330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Soluble	Solid	DI Leach	
MB 880-82330/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 82330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44252-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 82407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44253-1	S-1 (0-1')	Soluble	Solid	300.0	82330
MB 880-82330/1-A	Method Blank	Soluble	Solid	300.0	82330
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	300.0	82330
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	82330
880-44252-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	82330
880-44252-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	82330

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44253-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	82265	06/04/24 12:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 15:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82386	06/04/24 15:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			82676	06/06/24 15:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 15:20	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	82407	06/06/24 14:28	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
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

Job ID: 880-44253-1

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44253-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44253-1	S-1 (0-1')	Solid	06/03/24 00:00	06/04/24 12:00

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

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

[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
			6/14/24 1200



880-44253 Chain of Custody

6/7/2024

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44253-1
SDG Number: Eddy County, New Mexico

Login Number: 44253
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/7/2024 3:39:19 PM

JOB DESCRIPTION

Copperhead 31 Fed 3H Flare Fire (4.18.24)
Eddy County, New Mexico

JOB NUMBER

880-44254-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
6/7/2024 3:39:19 PM

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

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Laboratory Job ID: 880-44254-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

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.
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

Case Narrative

Client: Carmona Resources
Project: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1

Job ID: 880-44254-1

Eurofins Midland

Job Narrative 880-44254-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 6/4/2024 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-44254-1), H-2 (0-0.5') (880-44254-2), H-3 (0-0.5') (880-44254-3), H-4 (0-0.5') (880-44254-4) and H-5 (0-0.5') (880-44254-5).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-82244 and analytical batch 880-82547 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: H-1 (0-0.5') (880-44254-1), H-2 (0-0.5') (880-44254-2), H-3 (0-0.5') (880-44254-3), H-4 (0-0.5') (880-44254-4) and (LCS 880-82244/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-82244 and analytical batch 880-82547 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44254-1

Date Collected: 06/03/24 00:00

Matrix: Solid

Date Received: 06/04/24 12:00

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		06/04/24 13:00	06/04/24 19:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/04/24 13:00	06/04/24 19:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/04/24 13:00	06/04/24 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/04/24 13:00	06/04/24 19:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/04/24 13:00	06/04/24 19:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/04/24 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/06/24 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/03/24 19:14	06/06/24 15:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/03/24 19:14	06/06/24 15:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/03/24 19:14	06/06/24 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	06/03/24 19:14	06/06/24 15:38	1
o-Terphenyl	65	S1-	70 - 130	06/03/24 19:14	06/06/24 15:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	307		25.2		mg/Kg			06/06/24 14:33	5

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

Lab Sample ID: 880-44254-2

Date Collected: 06/03/24 00:00

Matrix: Solid

Date Received: 06/04/24 12:00

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		06/04/24 13:00	06/04/24 19:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/24 13:00	06/04/24 19:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/04/24 13:00	06/04/24 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/04/24 13:00	06/04/24 19:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/04/24 13:00	06/04/24 19:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44254-2

Date Collected: 06/03/24 00:00

Matrix: Solid

Date Received: 06/04/24 12:00

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			06/04/24 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/24 15:55	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		06/03/24 19:14	06/06/24 15:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				06/03/24 19:14	06/06/24 15:55	1
o-Terphenyl	68	S1-	70 - 130				06/03/24 19:14	06/06/24 15:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	903		50.2		mg/Kg			06/06/24 14:38	10

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

Lab Sample ID: 880-44254-3

Date Collected: 06/03/24 00:00

Matrix: Solid

Date Received: 06/04/24 12:00

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		06/04/24 13:00	06/04/24 19:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/04/24 13:00	06/04/24 19:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/04/24 13:00	06/04/24 19:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/04/24 13:00	06/04/24 19:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/04/24 13:00	06/04/24 19:52	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/04/24 13:00	06/04/24 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/04/24 13:00	06/04/24 19:52	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/04/24 13:00	06/04/24 19:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/04/24 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/24 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 16:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 16:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44254-3

Date Collected: 06/03/24 00:00

Matrix: Solid

Date Received: 06/04/24 12:00

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		06/03/24 19:14	06/06/24 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				06/03/24 19:14	06/06/24 16:12	1
o-Terphenyl	63	S1-	70 - 130				06/03/24 19:14	06/06/24 16:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		4.97		mg/Kg			06/06/24 14:42	1

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

Lab Sample ID: 880-44254-4

Date Collected: 06/03/24 00:00

Matrix: Solid

Date Received: 06/04/24 12:00

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		06/04/24 13:00	06/04/24 20:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/04/24 13:00	06/04/24 20:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/04/24 13:00	06/04/24 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				06/04/24 13:00	06/04/24 20:12	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/04/24 13:00	06/04/24 20:12	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			06/04/24 20:12	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			06/06/24 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 16:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 16:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				06/03/24 19:14	06/06/24 16:29	1
o-Terphenyl	64	S1-	70 - 130				06/03/24 19:14	06/06/24 16:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.02		mg/Kg			06/06/24 14:56	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

Client Sample ID: H-5 (0-0.5')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-5
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		06/04/24 13:00	06/04/24 20:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/04/24 13:00	06/04/24 20:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/04/24 13:00	06/04/24 20:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/04/24 13:00	06/04/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				06/04/24 13:00	06/04/24 20:32	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/04/24 13:00	06/04/24 20:32	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			06/04/24 20:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/24 16:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 16:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 16:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/03/24 19:14	06/06/24 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				06/03/24 19:14	06/06/24 16:47	1
o-Terphenyl	70		70 - 130				06/03/24 19:14	06/06/24 16:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	375		49.8		mg/Kg			06/06/24 15:01	10

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-44241-A-1-A MS	Matrix Spike	104	101
880-44241-A-1-B MSD	Matrix Spike Duplicate	105	102
880-44254-1	H-1 (0-0.5')	106	98
880-44254-2	H-2 (0-0.5')	107	97
880-44254-3	H-3 (0-0.5')	106	97
880-44254-4	H-4 (0-0.5')	108	97
880-44254-5	H-5 (0-0.5')	105	95
LCS 880-82265/1-A	Lab Control Sample	104	101
LCSD 880-82265/2-A	Lab Control Sample Dup	103	101
MB 880-82265/5-A	Method Blank	104	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44254-1	H-1 (0-0.5')	72	65 S1-
880-44254-2	H-2 (0-0.5')	72	68 S1-
880-44254-3	H-3 (0-0.5')	65 S1-	63 S1-
880-44254-4	H-4 (0-0.5')	66 S1-	64 S1-
880-44254-5	H-5 (0-0.5')	71	70
890-6733-A-1-C MS	Matrix Spike	86	85
890-6733-A-1-D MSD	Matrix Spike Duplicate	88	86
LCS 880-82244/2-A	Lab Control Sample	126	133 S1+
LCSD 880-82244/3-A	Lab Control Sample Dup	107	113
MB 880-82244/1-A	Method Blank	109	112
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources

Job ID: 880-44254-1

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-82265/5-A

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 82265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/04/24 12:07	06/04/24 14:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/04/24 12:07	06/04/24 14:10	1

Lab Sample ID: LCS 880-82265/1-A

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.09133		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09576		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09784		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-82265/2-A

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82265

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1146		mg/Kg		115	70 - 130	13	35
Toluene	0.100	0.1034		mg/Kg		103	70 - 130	12	35
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2218		mg/Kg		111	70 - 130	12	35
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-44241-A-1-A MS

Matrix: Solid

Analysis Batch: 82256

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 82265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1003		mg/Kg		101	70 - 130
Toluene	<0.00199	U	0.0996	0.09035		mg/Kg		91	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44241-A-1-A MS
Matrix: Solid
Analysis Batch: 82256

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 82265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09423		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1936		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09708		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 880-44241-A-1-B MSD
Matrix: Solid
Analysis Batch: 82256

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 82265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1000		mg/Kg		99	70 - 130	0	35
Toluene	<0.00199	U	0.101	0.08801		mg/Kg		87	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.08931		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1818		mg/Kg		90	70 - 130	6	35
o-Xylene	<0.00199	U	0.101	0.09097		mg/Kg		90	70 - 130	6	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-82244/1-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 82244

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		06/03/24 19:14	06/06/24 10:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: LCS 880-82244/2-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1270		mg/Kg		127	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1232		mg/Kg		123	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-82244/2-A

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 82244

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: LCSD 880-82244/3-A

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 82244

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1068		mg/Kg		107	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130	19	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-6733-A-1-C MS

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 82244

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	997	703.8		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	695.4	F1	mg/Kg		67	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-6733-A-1-D MSD

Matrix: Solid

Analysis Batch: 82547

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 82244

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	997	753.8		mg/Kg		76	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	729.0		mg/Kg		71	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	86		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-82330/1-A

Matrix: Solid

Analysis Batch: 82407

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			06/06/24 13:57	1

Lab Sample ID: LCS 880-82330/2-A

Matrix: Solid

Analysis Batch: 82407

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-82330/3-A

Matrix: Solid

Analysis Batch: 82407

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	258.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-44252-A-1-D MS

Matrix: Solid

Analysis Batch: 82407

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	93.4		248	353.3		mg/Kg		105	90 - 110

Lab Sample ID: 880-44252-A-1-E MSD

Matrix: Solid

Analysis Batch: 82407

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	93.4		248	354.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-44259-A-4-B MS

Matrix: Solid

Analysis Batch: 82407

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1320		1260	2686		mg/Kg		108	90 - 110

Lab Sample ID: 880-44259-A-4-C MSD

Matrix: Solid

Analysis Batch: 82407

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1320		1260	2687		mg/Kg		109	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Job ID: 880-44254-1

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 82256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	8021B	82265
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	8021B	82265
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	8021B	82265
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	8021B	82265
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	8021B	82265
MB 880-82265/5-A	Method Blank	Total/NA	Solid	8021B	82265
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	8021B	82265
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	82265
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	82265
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	82265

Prep Batch: 82265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-82265/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 82389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 82244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 82547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	82244
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	82244

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QC Association Summary

Client: Carmona Resources

Job ID: 880-44254-1

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 82547 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	82244
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	82244
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	82244
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015B NM	82244
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	82244
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	82244
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	82244
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	82244

Analysis Batch: 82677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-44254-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-44254-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-44254-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-44254-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 82330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-44254-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-44254-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-44254-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-44254-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-82330/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44252-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44252-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-44259-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-44259-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 82407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44254-1	H-1 (0-0.5')	Soluble	Solid	300.0	82330
880-44254-2	H-2 (0-0.5')	Soluble	Solid	300.0	82330
880-44254-3	H-3 (0-0.5')	Soluble	Solid	300.0	82330
880-44254-4	H-4 (0-0.5')	Soluble	Solid	300.0	82330
880-44254-5	H-5 (0-0.5')	Soluble	Solid	300.0	82330
MB 880-82330/1-A	Method Blank	Soluble	Solid	300.0	82330
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	300.0	82330
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	82330
880-44252-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	82330
880-44252-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	82330
880-44259-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	82330
880-44259-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	82330

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			82677	06/06/24 15:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 15:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	82407	06/06/24 14:33	CH	EET MID

Client Sample ID: H-2 (0-0.5')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-2
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	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			82677	06/06/24 15:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 15:55	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	82407	06/06/24 14:38	CH	EET MID

Client Sample ID: H-3 (0-0.5')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-3
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			5.04 g	5 mL	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 19:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			82677	06/06/24 16:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 16:12	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82407	06/06/24 14:42	CH	EET MID

Client Sample ID: H-4 (0-0.5')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 20:12	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-4
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			82677	06/06/24 16:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 16:29	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82407	06/06/24 14:56	CH	EET MID

Client Sample ID: H-5 (0-0.5')
Date Collected: 06/03/24 00:00
Date Received: 06/04/24 12:00

Lab Sample ID: 880-44254-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	82265	06/04/24 13:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82389	06/04/24 20:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			82677	06/06/24 16:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 16:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	82407	06/06/24 15:01	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
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: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-44254-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44254-1	H-1 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00
880-44254-2	H-2 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00
880-44254-3	H-3 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00
880-44254-4	H-4 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00
880-44254-5	H-5 (0-0.5')	Solid	06/03/24 00:00	06/04/24 12:00

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Chain of Custody

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V



880-44254 Chain of Custody

6/7/2024

Page 1 of 1

Project Manager:	Conner Moehring	Bill to: (if different)	Cammona Resources
Company Name:	Cammona 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@cammonaresources.com

Project Name:	Copperhead 31 Fed 3H Flare Fire (4.18.24)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	2354	Due Date:	72 HR		
Project Location:	Eddy County, New Mexico				
Sampler's Name:	JR				
PO #:					
SAMPLE RECEIPT					
Received Intact:	Temp Blank: Yes (X) No	Yes (X) No	Wet Ice: Yes (X) No	Parameters	
Cooler Custody Seals:	Yes (X) No	Thermometer ID: N/A	Correction Factor: N/A		
Sample Custody Seals:	Yes (X) No	Temperature Reading: N/A	Corrected Temperature: N/A		
Total Containers:					

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTX	TPH	Chloride	ANALYSIS REQUEST	Preservative Codes
H-1 (0-0.5')	6/3/2024		X		G	1	X	X	X		
H-2 (0-0.5')	6/3/2024		X		G	1	X	X	X		
H-3 (0-0.5')	6/3/2024		X		G	1	X	X	X		
H-4 (0-0.5')	6/3/2024		X		G	1	X	X	X		
H-5 (0-0.5')	6/3/2024		X		G	1	X	X	X		

Comments: Email to Mike Cammona / mcarmona@cammonaresources.com and Conner Moehring / cmoehring@cammonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			6/14/24 1:00

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44254-1

SDG Number: Eddy County, New Mexico

Login Number: 44254

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/27/2024 4:15:15 PM

JOB DESCRIPTION

Copperhead 31 Fed 3H Flare Fire (4.18.24)
Eddy County, New Mexico

JOB NUMBER

880-45296-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

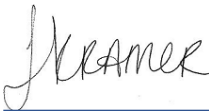
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
6/27/2024 4:15:15 PM

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

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Laboratory Job ID: 880-45296-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy 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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1

Job ID: 880-45296-1

Eurofins Midland

Job Narrative 880-45296-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The sample was received on 6/26/2024 3:14 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.1°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: H-2 (0-0.5') (880-45296-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84249 and analytical batch 880-84260 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84268 and analytical batch 880-84155 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-84268/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45296-1

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 15:14

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		06/26/24 15:33	06/26/24 20:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/26/24 15:33	06/26/24 20:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/26/24 15:33	06/26/24 20:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/26/24 15:33	06/26/24 20:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/26/24 15:33	06/26/24 20:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/26/24 15:33	06/26/24 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/26/24 15:33	06/26/24 20:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/26/24 15:33	06/26/24 20:56	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			06/26/24 20:56	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			06/26/24 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		06/26/24 16:36	06/26/24 20:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		06/26/24 16:36	06/26/24 20:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/26/24 16:36	06/26/24 20:29	1
Total TPH	<49.8	U F1	49.8		mg/Kg		06/26/24 16:36	06/26/24 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	06/26/24 16:36	06/26/24 20:29	1
o-Terphenyl	75		70 - 130	06/26/24 16:36	06/26/24 20:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.2		5.02		mg/Kg			06/27/24 14:21	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-45288-A-6-B MS	Matrix Spike	98	100
880-45288-A-6-C MSD	Matrix Spike Duplicate	98	101
880-45296-1	H-2 (0-0.5')	106	103
LCS 880-84249/1-A	Lab Control Sample	100	100
LCSD 880-84249/2-A	Lab Control Sample Dup	100	100
MB 880-84249/5-A	Method Blank	102	100
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)
880-45296-1	H-2 (0-0.5')	76	75
880-45296-1 MS	H-2 (0-0.5')	88	86
880-45296-1 MSD	H-2 (0-0.5')	73	75
LCS 880-84268/2-A	Lab Control Sample	84	89
LCSD 880-84268/3-A	Lab Control Sample Dup	100	104
MB 880-84268/1-A	Method Blank	148 S1+	170 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources

Job ID: 880-45296-1

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-84249/5-A

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/26/24 14:53	06/26/24 19:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/26/24 14:53	06/26/24 19:53	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/26/24 14:53	06/26/24 19:53	1

Lab Sample ID: LCS 880-84249/1-A

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08323		mg/Kg		83	70 - 130
Toluene	0.100	0.07925		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08005		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1825		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08180		mg/Kg		82	70 - 130

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

Lab Sample ID: LCSD 880-84249/2-A

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84249

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08483		mg/Kg		85	70 - 130	2	35
Toluene	0.100	0.08083		mg/Kg		81	70 - 130	2	35
Ethylbenzene	0.100	0.08123		mg/Kg		81	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1855		mg/Kg		93	70 - 130	2	35
o-Xylene	0.100	0.08335		mg/Kg		83	70 - 130	2	35

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

Lab Sample ID: 880-45288-A-6-B MS

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 84249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.07198		mg/Kg		72	70 - 130
Toluene	<0.00199	U F1	0.100	0.06142	F1	mg/Kg		61	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45288-A-6-B MS
Matrix: Solid
Analysis Batch: 84260

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 84249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.100	0.05559	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1233	F1	mg/Kg		62	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.05285	F1	mg/Kg		53	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-45288-A-6-C MSD
Matrix: Solid
Analysis Batch: 84260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 84249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.07008		mg/Kg		71	70 - 130	3	35
Toluene	<0.00199	U F1	0.0994	0.05817	F1	mg/Kg		59	70 - 130	5	35
Ethylbenzene	<0.00199	U F1	0.0994	0.05104	F1	mg/Kg		51	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1130	F1	mg/Kg		57	70 - 130	9	35
o-Xylene	<0.00199	U F1	0.0994	0.04874	F1	mg/Kg		49	70 - 130	8	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

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

Lab Sample ID: MB 880-84268/1-A
Matrix: Solid
Analysis Batch: 84155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 84268

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		06/26/24 16:36	06/26/24 19:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/26/24 16:36	06/26/24 19:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/26/24 16:36	06/26/24 19:26	1
Total TPH	<50.0	U	50.0		mg/Kg		06/26/24 16:36	06/26/24 19:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	148	S1+	70 - 130						
o-Terphenyl	170	S1+	70 - 130						

Lab Sample ID: LCS 880-84268/2-A
Matrix: Solid
Analysis Batch: 84155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 84268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	900.3		mg/Kg		90	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-84268/2-A

Matrix: Solid

Analysis Batch: 84155

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	840.2		mg/Kg	-	84	70 - 130

	LCS	LCS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>1-Chlorooctane</i>	84		70 - 130
<i>o-Terphenyl</i>	89		70 - 130

Lab Sample ID: LCSD 880-84268/3-A

Matrix: Solid

Analysis Batch: 84155

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84268

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	921.4		mg/Kg		92	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	925.4		mg/Kg		93	70 - 130	10	20

	<i>LCSD</i>	<i>LCSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>1-Chlorooctane</i>	<i>100</i>		<i>70 - 130</i>
<i>o-Terphenyl</i>	<i>104</i>		<i>70 - 130</i>

Lab Sample ID: 880-45296-1 MS

Matrix: Solid

Analysis Batch: 84155

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

Prep Type: Total/NA

Prep Batch: 84268

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	495.1	F1	mg/Kg		50	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	532.6	F1	mg/Kg		53	70 - 130		

	MS	MS	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>1-Chlorooctane</i>	88		70 - 130
<i>o-Terphenyl</i>	86		70 - 130

Lab Sample ID: 880-45296-1 MSD

Matrix: Solid

Analysis Batch: 84155

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

Prep Type: Total/NA

Prep Batch: 84268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	411.8	F1	mg/Kg		41	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	455.0	F1	mg/Kg		46	70 - 130	16	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
<i>o</i> -Terphenyl	75		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84258/1-A Matrix: Solid Analysis Batch: 84311										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			06/27/24 12:56	1		

Lab Sample ID: LCS 880-84258/2-A Matrix: Solid Analysis Batch: 84311										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.9		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-84258/3-A Matrix: Solid Analysis Batch: 84311										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	243.2		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-45297-A-2-D MS Matrix: Solid Analysis Batch: 84311										Client Sample ID: Matrix Spike Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	27.7		248	283.8		mg/Kg		103	90 - 110		

Lab Sample ID: 880-45297-A-2-E MSD Matrix: Solid Analysis Batch: 84311										Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	27.7		248	282.3		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 84249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	5035	
MB 880-84249/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84249/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84249/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45288-A-6-B MS	Matrix Spike	Total/NA	Solid	5035	
880-45288-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 84260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	8021B	84249
MB 880-84249/5-A	Method Blank	Total/NA	Solid	8021B	84249
LCS 880-84249/1-A	Lab Control Sample	Total/NA	Solid	8021B	84249
LCSD 880-84249/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84249
880-45288-A-6-B MS	Matrix Spike	Total/NA	Solid	8021B	84249
880-45288-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84249

Analysis Batch: 84327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 84155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	8015B NM	84268
MB 880-84268/1-A	Method Blank	Total/NA	Solid	8015B NM	84268
LCS 880-84268/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84268
LCSD 880-84268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84268
880-45296-1 MS	H-2 (0-0.5')	Total/NA	Solid	8015B NM	84268
880-45296-1 MSD	H-2 (0-0.5')	Total/NA	Solid	8015B NM	84268

Prep Batch: 84268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-84268/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84268/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45296-1 MS	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45296-1 MSD	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 84258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-84258/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84258/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84258/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 84258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-45297-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 84311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45296-1	H-2 (0-0.5')	Soluble	Solid	300.0	84258
MB 880-84258/1-A	Method Blank	Soluble	Solid	300.0	84258
LCS 880-84258/2-A	Lab Control Sample	Soluble	Solid	300.0	84258
LCSD 880-84258/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84258
880-45297-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	84258
880-45297-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	84258

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

Client Sample ID: H-2 (0-0.5')
Date Collected: 06/25/24 00:00
Date Received: 06/26/24 15:14

Lab Sample ID: 880-45296-1
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			4.98 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 20:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84327	06/26/24 20:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			84300	06/26/24 20:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84268	06/26/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84155	06/26/24 20:29	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 14:21	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-24
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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45296-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45296-1	H-2 (0-0.5')	Solid	06/25/24 00:00	06/26/24 15:14

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Chain of Custody



880-45296 Chain of Custody

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 <input type="checkbox"/> PRP <input type="checkbox"/> Rowfields <input type="checkbox"/> IRC <input type="checkbox"/> perfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____	

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Wesley Camacho</i>	6/26/24	<i>[Signature]</i>	6/26/24 3:00

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-45296-1

SDG Number: Eddy County, New Mexico

Login Number: 45296

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/27/2024 4:15:45 PM

JOB DESCRIPTION

Copperhead 31 Fed 3H Flare Fire (4.18.24)
Eddy County, New Mexico

JOB NUMBER

880-45297-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
6/27/2024 4:15:45 PM

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

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Laboratory Job ID: 880-45297-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy 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.
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.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1

Job ID: 880-45297-1

Eurofins Midland

Job Narrative 880-45297-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 6/26/2024 1:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (0-1') (880-45297-1), SW-1 (0-1') (880-45297-2), SW-2 (0-1') (880-45297-3), SW-3 (0-1') (880-45297-4) and SW-4 (0-1') (880-45297-5).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84249 and analytical batch 880-84260 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84266 and analytical batch 880-84152 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-1 (0-1') (880-45297-2) and (MB 880-84266/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45297-1

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/26/24 15:33	06/26/24 21:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/26/24 15:33	06/26/24 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/26/24 15:33	06/26/24 21:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/26/24 15:33	06/26/24 21:16	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			06/26/24 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/24 21:31	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		06/26/24 16:31	06/26/24 21:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 21:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 21:31	1
Total TPH	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	06/26/24 16:31	06/26/24 21:31	1
o-Terphenyl	89		70 - 130	06/26/24 16:31	06/26/24 21:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.1		4.97		mg/Kg			06/27/24 14:26	1

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

Lab Sample ID: 880-45297-2

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 21:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/26/24 15:33	06/26/24 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/26/24 15:33	06/26/24 21:37	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/26/24 15:33	06/26/24 21:37	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45297-2

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 13:10

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			06/26/24 21:37	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			06/26/24 21:52	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		06/26/24 16:31	06/26/24 21:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/26/24 16:31	06/26/24 21:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/26/24 16:31	06/26/24 21:52	1
Total TPH	<50.0	U	50.0		mg/Kg		06/26/24 16:31	06/26/24 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	24	S1-	70 - 130	06/26/24 16:31	06/26/24 21:52	1
o-Terphenyl	44	S1-	70 - 130	06/26/24 16:31	06/26/24 21:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		4.96		mg/Kg			06/27/24 14:32	1

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

Lab Sample ID: 880-45297-3

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 13:10

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		06/26/24 15:33	06/26/24 21:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/26/24 15:33	06/26/24 21:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/26/24 15:33	06/26/24 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/26/24 15:33	06/26/24 21:57	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/26/24 15:33	06/26/24 21:57	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			06/26/24 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/26/24 22:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45297-3

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:12	1
Total TPH	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	06/26/24 16:31	06/26/24 22:12	1
o-Terphenyl	83		70 - 130	06/26/24 16:31	06/26/24 22:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.46		5.04		mg/Kg			06/27/24 15:08	1

Client Sample ID: SW-3 (0-1')

Lab Sample ID: 880-45297-4

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/26/24 15:33	06/26/24 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/26/24 15:33	06/26/24 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/26/24 15:33	06/26/24 22:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/26/24 15:33	06/26/24 22:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/26/24 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/26/24 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:33	1
Total TPH	<49.7	U	49.7		mg/Kg		06/26/24 16:31	06/26/24 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	06/26/24 16:31	06/26/24 22:33	1
o-Terphenyl	95		70 - 130	06/26/24 16:31	06/26/24 22:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (0-1')

Lab Sample ID: 880-45297-4

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 13:10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.0		5.05		mg/Kg			06/27/24 14:54	1

Client Sample ID: SW-4 (0-1')

Lab Sample ID: 880-45297-5

Date Collected: 06/25/24 00:00

Matrix: Solid

Date Received: 06/26/24 13:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/26/24 15:33	06/26/24 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/26/24 15:33	06/26/24 22:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/26/24 15:33	06/26/24 22:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/26/24 22:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/26/24 22:53	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	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 22:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 22:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 22:53	1
Total TPH	<49.8	U	49.8		mg/Kg		06/26/24 16:31	06/26/24 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				06/26/24 16:31	06/26/24 22:53	1
o-Terphenyl	79		70 - 130				06/26/24 16:31	06/26/24 22:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.0		4.95		mg/Kg			06/27/24 15:13	1

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-45297-1

Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-45288-A-6-B MS	Matrix Spike	98	100
880-45288-A-6-C MSD	Matrix Spike Duplicate	98	101
880-45297-1	CS-1 (0-1')	106	103
880-45297-2	SW-1 (0-1')	102	101
880-45297-3	SW-2 (0-1')	104	101
880-45297-4	SW-3 (0-1')	105	102
880-45297-5	SW-4 (0-1')	102	101
LCS 880-84249/1-A	Lab Control Sample	100	100
LCSD 880-84249/2-A	Lab Control Sample Dup	100	100
MB 880-84249/5-A	Method Blank	102	100
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)
880-45292-A-1-E MS	Matrix Spike	92	88
880-45292-A-1-F MSD	Matrix Spike Duplicate	101	95
880-45297-1	CS-1 (0-1')	88	89
880-45297-2	SW-1 (0-1')	24 S1-	44 S1-
880-45297-3	SW-2 (0-1')	86	83
880-45297-4	SW-3 (0-1')	96	95
880-45297-5	SW-4 (0-1')	83	79
LCS 880-84266/2-A	Lab Control Sample	113	115
LCSD 880-84266/3-A	Lab Control Sample Dup	115	113
MB 880-84266/1-A	Method Blank	131 S1+	143 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-84249/5-A

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/26/24 14:53	06/26/24 19:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/26/24 14:53	06/26/24 19:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/26/24 14:53	06/26/24 19:53	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/26/24 14:53	06/26/24 19:53	1

Lab Sample ID: LCS 880-84249/1-A

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08323		mg/Kg		83	70 - 130
Toluene	0.100	0.07925		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08005		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1825		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08180		mg/Kg		82	70 - 130

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

Lab Sample ID: LCSD 880-84249/2-A

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84249

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08483		mg/Kg		85	70 - 130	2	35
Toluene	0.100	0.08083		mg/Kg		81	70 - 130	2	35
Ethylbenzene	0.100	0.08123		mg/Kg		81	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1855		mg/Kg		93	70 - 130	2	35
o-Xylene	0.100	0.08335		mg/Kg		83	70 - 130	2	35

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

Lab Sample ID: 880-45288-A-6-B MS

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 84249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.07198		mg/Kg		72	70 - 130
Toluene	<0.00199	U F1	0.100	0.06142	F1	mg/Kg		61	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45288-A-6-B MS

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 84249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.100	0.05559	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1233	F1	mg/Kg		62	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.05285	F1	mg/Kg		53	70 - 130

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

Lab Sample ID: 880-45288-A-6-C MSD

Matrix: Solid

Analysis Batch: 84260

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 84249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.07008		mg/Kg		71	70 - 130	3	35
Toluene	<0.00199	U F1	0.0994	0.05817	F1	mg/Kg		59	70 - 130	5	35
Ethylbenzene	<0.00199	U F1	0.0994	0.05104	F1	mg/Kg		51	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1130	F1	mg/Kg		57	70 - 130	9	35
o-Xylene	<0.00199	U F1	0.0994	0.04874	F1	mg/Kg		49	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-84266/1-A

Matrix: Solid

Analysis Batch: 84152

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84266

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		06/26/24 16:30	06/26/24 19:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/26/24 16:30	06/26/24 19:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/26/24 16:30	06/26/24 19:26	1
Total TPH	<50.0	U	50.0		mg/Kg		06/26/24 16:30	06/26/24 19:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	06/26/24 16:30	06/26/24 19:26	1
o-Terphenyl	143	S1+	70 - 130	06/26/24 16:30	06/26/24 19:26	1

Lab Sample ID: LCS 880-84266/2-A

Matrix: Solid

Analysis Batch: 84152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	949.7		mg/Kg		95	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-84266/2-A

Matrix: Solid

Analysis Batch: 84152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	904.9		mg/Kg		90	70 - 130
	LCS %Recovery	LCS Qualifier	Limits				
Surrogate							
1-Chlorooctane	113		70 - 130				
o-Terphenyl	115		70 - 130				

Lab Sample ID: LCSD 880-84266/3-A

Matrix: Solid

Analysis Batch: 84152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	974.6		mg/Kg		97	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	917.2		mg/Kg		92	70 - 130	1	20
	LCSD %Recovery	LCSD Qualifier	Limits						
Surrogate									
1-Chlorooctane	115		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 880-45292-A-1-E MS

Matrix: Solid

Analysis Batch: 84152

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 84266

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	994	911.0		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	514.1	F1	mg/Kg		52	70 - 130
	MS %Recovery	MS Qualifier	Limits						
Surrogate									
1-Chlorooctane	92		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: 880-45292-A-1-F MSD

Matrix: Solid

Analysis Batch: 84152

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 84266

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	994	998.7		mg/Kg		97	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	561.5	F1	mg/Kg		56	70 - 130	9	20
	MSD %Recovery	MSD Qualifier	Limits								
Surrogate											
1-Chlorooctane	101		70 - 130								
o-Terphenyl	95		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84258/1-A Matrix: Solid Analysis Batch: 84311										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			06/27/24 12:56	1		

Lab Sample ID: LCS 880-84258/2-A Matrix: Solid Analysis Batch: 84311										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.9		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-84258/3-A Matrix: Solid Analysis Batch: 84311										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	243.2		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-45297-2 MS Matrix: Solid Analysis Batch: 84311										Client Sample ID: SW-1 (0-1') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	27.7		248	283.8		mg/Kg		103	90 - 110		

Lab Sample ID: 880-45297-2 MSD Matrix: Solid Analysis Batch: 84311										Client Sample ID: SW-1 (0-1') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	27.7		248	282.3		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 84249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	5035	
880-45297-2	SW-1 (0-1')	Total/NA	Solid	5035	
880-45297-3	SW-2 (0-1')	Total/NA	Solid	5035	
880-45297-4	SW-3 (0-1')	Total/NA	Solid	5035	
880-45297-5	SW-4 (0-1')	Total/NA	Solid	5035	
MB 880-84249/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84249/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84249/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45288-A-6-B MS	Matrix Spike	Total/NA	Solid	5035	
880-45288-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 84260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	8021B	84249
880-45297-2	SW-1 (0-1')	Total/NA	Solid	8021B	84249
880-45297-3	SW-2 (0-1')	Total/NA	Solid	8021B	84249
880-45297-4	SW-3 (0-1')	Total/NA	Solid	8021B	84249
880-45297-5	SW-4 (0-1')	Total/NA	Solid	8021B	84249
MB 880-84249/5-A	Method Blank	Total/NA	Solid	8021B	84249
LCS 880-84249/1-A	Lab Control Sample	Total/NA	Solid	8021B	84249
LCSD 880-84249/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84249
880-45288-A-6-B MS	Matrix Spike	Total/NA	Solid	8021B	84249
880-45288-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84249

Analysis Batch: 84328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-2	SW-1 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-3	SW-2 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-4	SW-3 (0-1')	Total/NA	Solid	Total BTEX	
880-45297-5	SW-4 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 84152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	8015B NM	84266
880-45297-2	SW-1 (0-1')	Total/NA	Solid	8015B NM	84266
880-45297-3	SW-2 (0-1')	Total/NA	Solid	8015B NM	84266
880-45297-4	SW-3 (0-1')	Total/NA	Solid	8015B NM	84266
880-45297-5	SW-4 (0-1')	Total/NA	Solid	8015B NM	84266
MB 880-84266/1-A	Method Blank	Total/NA	Solid	8015B NM	84266
LCS 880-84266/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84266
LCSD 880-84266/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84266
880-45292-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	84266
880-45292-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	84266

Prep Batch: 84266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-45297-2	SW-1 (0-1')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 84266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-3	SW-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-45297-4	SW-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-45297-5	SW-4 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-84266/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84266/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84266/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45292-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-45292-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Total/NA	Solid	8015 NM	
880-45297-2	SW-1 (0-1')	Total/NA	Solid	8015 NM	
880-45297-3	SW-2 (0-1')	Total/NA	Solid	8015 NM	
880-45297-4	SW-3 (0-1')	Total/NA	Solid	8015 NM	
880-45297-5	SW-4 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 84258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Soluble	Solid	DI Leach	
880-45297-2	SW-1 (0-1')	Soluble	Solid	DI Leach	
880-45297-3	SW-2 (0-1')	Soluble	Solid	DI Leach	
880-45297-4	SW-3 (0-1')	Soluble	Solid	DI Leach	
880-45297-5	SW-4 (0-1')	Soluble	Solid	DI Leach	
MB 880-84258/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84258/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84258/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45297-2 MS	SW-1 (0-1')	Soluble	Solid	DI Leach	
880-45297-2 MSD	SW-1 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 84311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45297-1	CS-1 (0-1')	Soluble	Solid	300.0	84258
880-45297-2	SW-1 (0-1')	Soluble	Solid	300.0	84258
880-45297-3	SW-2 (0-1')	Soluble	Solid	300.0	84258
880-45297-4	SW-3 (0-1')	Soluble	Solid	300.0	84258
880-45297-5	SW-4 (0-1')	Soluble	Solid	300.0	84258
MB 880-84258/1-A	Method Blank	Soluble	Solid	300.0	84258
LCS 880-84258/2-A	Lab Control Sample	Soluble	Solid	300.0	84258
LCSD 880-84258/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84258
880-45297-2 MS	SW-1 (0-1')	Soluble	Solid	300.0	84258
880-45297-2 MSD	SW-1 (0-1')	Soluble	Solid	300.0	84258

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (0-1')
Date Collected: 06/25/24 00:00
Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-1
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			4.96 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 21:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 21:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			84315	06/26/24 21:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 21:31	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 14:26	CH	EET MID

Client Sample ID: SW-1 (0-1')
Date Collected: 06/25/24 00:00
Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-2
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			5.03 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 21:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 21:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			84315	06/26/24 21:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 21:52	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 14:32	CH	EET MID

Client Sample ID: SW-2 (0-1')
Date Collected: 06/25/24 00:00
Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-3
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			5.05 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 21:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 21:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			84315	06/26/24 22:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 22:12	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 15:08	CH	EET MID

Client Sample ID: SW-3 (0-1')
Date Collected: 06/25/24 00:00
Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-4
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			5.00 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 22:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 22:18	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (0-1')
Date Collected: 06/25/24 00:00
Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-4
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			84315	06/26/24 22:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 22:33	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 14:54	CH	EET MID

Client Sample ID: SW-4 (0-1')
Date Collected: 06/25/24 00:00
Date Received: 06/26/24 13:10

Lab Sample ID: 880-45297-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	84249	06/26/24 15:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84260	06/26/24 22:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84328	06/26/24 22:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			84315	06/26/24 22:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84266	06/26/24 16:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84152	06/26/24 22:53	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	84258	06/26/24 15:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84311	06/27/24 15:13	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-24
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
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

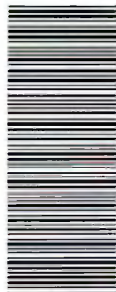
Client: Carmona Resources
Project/Site: Copperhead 31 Fed 3H Flare Fire (4.18.24)

Job ID: 880-45297-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45297-1	CS-1 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10
880-45297-2	SW-1 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10
880-45297-3	SW-2 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10
880-45297-4	SW-3 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10
880-45297-5	SW-4 (0-1')	Solid	06/25/24 00:00	06/26/24 13:10

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

Chain of Custody



880-45297 Chain of Custody

Page 1 of 1

[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
Mike Carmean	6/26/24	[Signature]	6/26/24 13:0

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-45297-1

SDG Number: Eddy County, New Mexico

Login Number: 45297

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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

May 09, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: GRAHAM NASH 8H - FLARE FIRE

Enclosed are the results of analyses for samples received by the laboratory on 05/08/24 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	05/08/2024	Sampling Date:	05/08/2024
Reported:	05/09/2024	Sampling Type:	Soil
Project Name:	GRAHAM NASH 8H - FLARE FIRE	Sampling Condition:	Cool & Intact
Project Number:	2323	Sample Received By:	Alyssa Parras
Project Location:	EDDY COUNTY, NM		

Sample ID: TPLT ASTRONAUT CALICHE PIT #1 (H242511-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2024	ND	2.05	102	2.00	6.55	
Toluene*	<0.050	0.050	05/09/2024	ND	1.99	99.4	2.00	6.27	
Ethylbenzene*	<0.050	0.050	05/09/2024	ND	1.94	97.1	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/09/2024	ND	5.69	94.9	6.00	5.92	
Total BTEX	<0.300	0.300	05/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/09/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2024	ND	191	95.6	200	1.69	
DRO >C10-C28*	<10.0	10.0	05/09/2024	ND	195	97.7	200	1.64	
EXT DRO >C28-C36	<10.0	10.0	05/09/2024	ND					

Surrogate: 1-Chlorooctane 63.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.8 % 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



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 242511

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/ST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> IRC	<input type="checkbox"/> Iperfund	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
State of Project:										
Reporting Level	II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	ST/UST	<input type="checkbox"/>	RRP	<input type="checkbox"/>	Level IV	<input type="checkbox"/>
Deliverables:	EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:					

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	5/8/24		5/8/24/11005

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

QUESTIONS

Action 365281

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	365281
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411129556
Incident Name	NAPP2411129556 COPPERHEAD 31 FEDERAL COM #3H @ 30-015-42379
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-42379] COPPERHEAD 31 FEDERAL COM #003H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Copperhead 31 Federal Com #3H
Date Release Discovered	04/18/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other Other (Specify) Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 365281

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	365281
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/18/2024
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QUESTIONS, Page 3

Action 365281

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	365281
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	903
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	06/25/2024
On what date will (or did) the final sampling or liner inspection occur	06/25/2024
On what date will (or was) the remediation complete(d)	06/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	160
What is the estimated volume (in cubic yards) that will be remediated	5
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS, Page 4

Action 365281

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 365281
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Copperhead 31 Fed 3H - RT BTTY [fAPP2203847044]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/18/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 365281

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 365281
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 365281

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	365281
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	356629
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/25/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	160
What was the total volume (cubic yards) remediated	5
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Area was excavated and contaminated material disposed of. Back filled with clean caliche.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/18/2024
--	---

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QUESTIONS, Page 7

Action 365281

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 365281
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 365281

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	365281
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/6/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/6/2024