



SITE INFORMATION

Closure Report
CTA State Com 005H (07.08.24)
Eddy County, New Mexico
Incident ID: NAPP2420734164
Unit I Sec 32 T18S R30E
32.702573°, -103.986209°

Crude Oil Release
Point of Release: Flare Fire
Release Date: 07.08.24
Volume Released: 0.25 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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September 5, 2024

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

Re: Closure Report
CTA State Com 005H (07.08.24)
Concho Operating, LLC
Incident ID: NAPP2420734164
Site Location: Unit I, S32, T18S, R30E
(Lat 32.702573°, Long -103.986209°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the CTA State Com 005H (07.08.24). The site is located at 32.702573°, -103.986209° within Unit I, S32, T18S, R30E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered due to a flare fire on July 8, 2024. This released zero point two five (0.25) barrels of crude oil, and zero (0) barrels of crude oil were recovered. Refer to Figure 3. The initial C141 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 water source within a 0.50-mile radius of the location exists. The nearest identified well is located approximately 0.47 miles southwest of the site in S32, T18S, R30E and was drilled in 1971. The well has a reported depth to groundwater of 161.28' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On August 12, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) sample point (S-1) and five (5) horizontal sample points (H-1 through H-5) were installed to total depths ranging from surface to 0.5' bgs inside and surrounding the release area to evaluate 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.

5.0 Remediation Activities

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on August 19, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. A total of five (5) confirmation floor samples were collected (CS-1 through CS-5), and five (5) sidewall samples (SW-1 through SW-5) were collected every 200 square feet to ensure the proper removal of the contaminated material. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. The analytical results are in Table 2.

Once the remediation activities were completed, the excavated area was backfilled with clean material to surface grade. The backfill sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 40 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. If you have any questions regarding this report or need additional information, please call us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

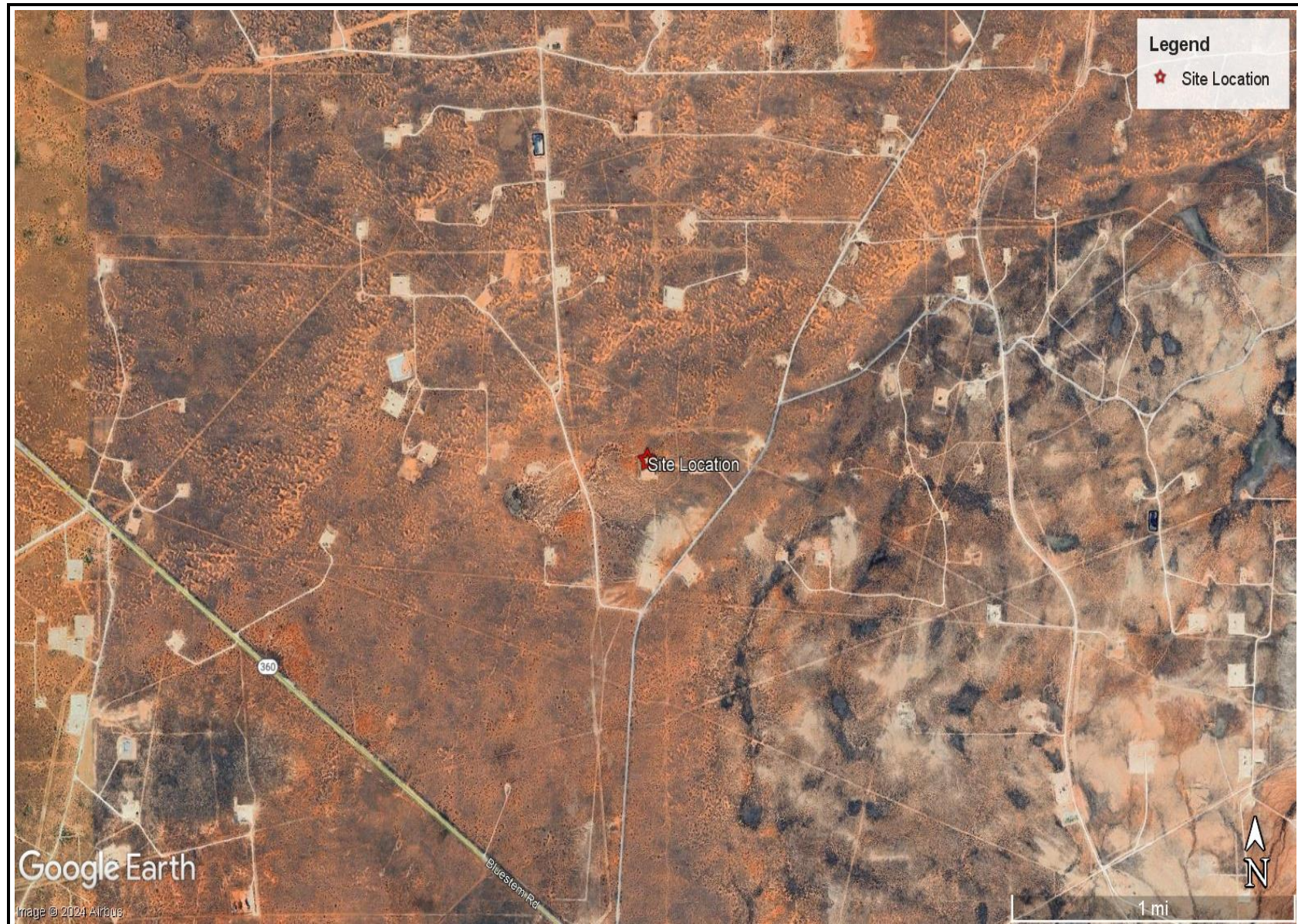
Mike Carmona
Environmental Manager

Devin Dominguez
Sr. Project Manager

FIGURES

CARMONA RESOURCES

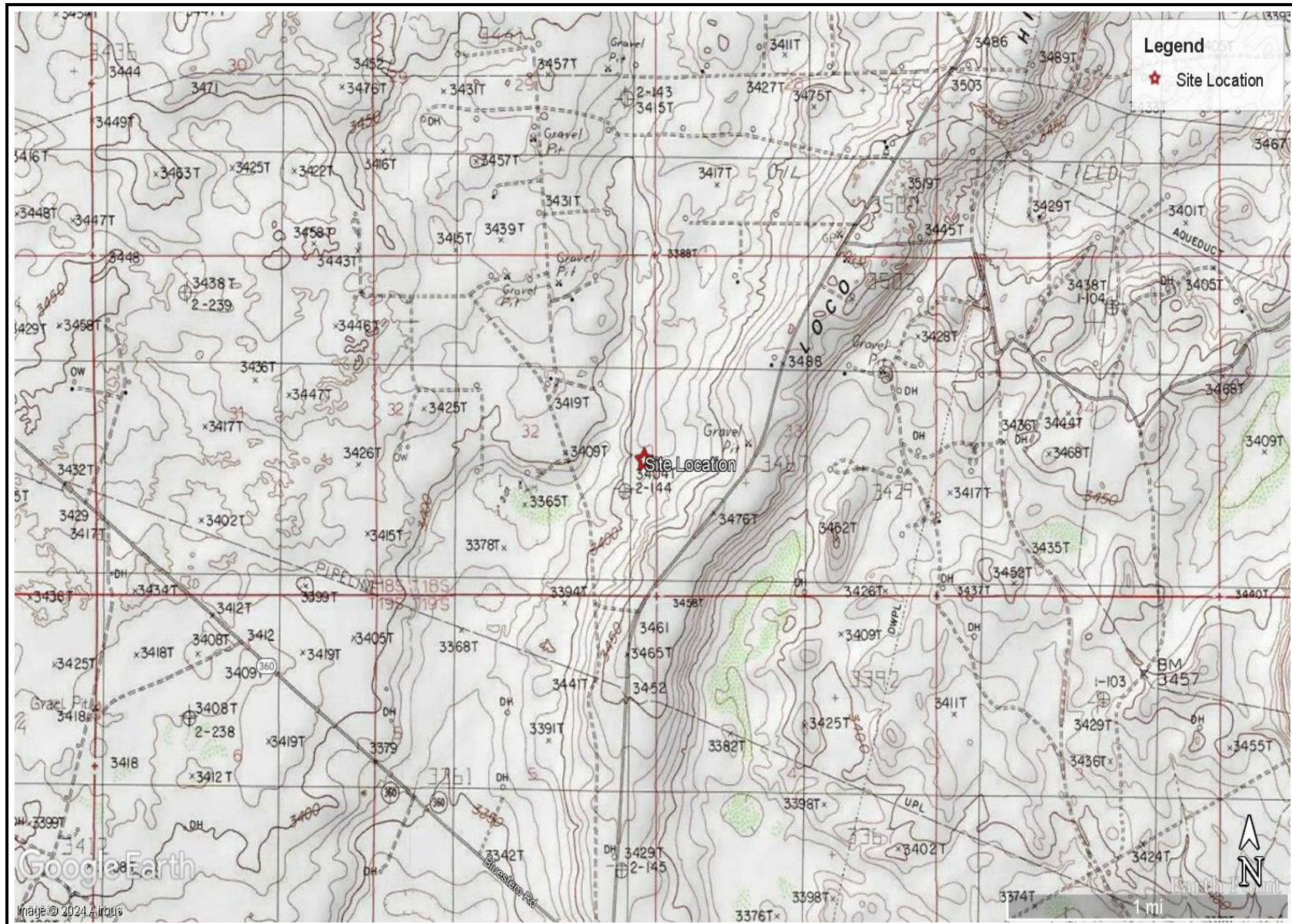




OVERVIEW MAP
 COG OPERATING, LLC
 CTA STATE COM 005H (07.08.24)
 EDDY COUNTY, NEW MEXICO
 32.702573°, -103.986209°



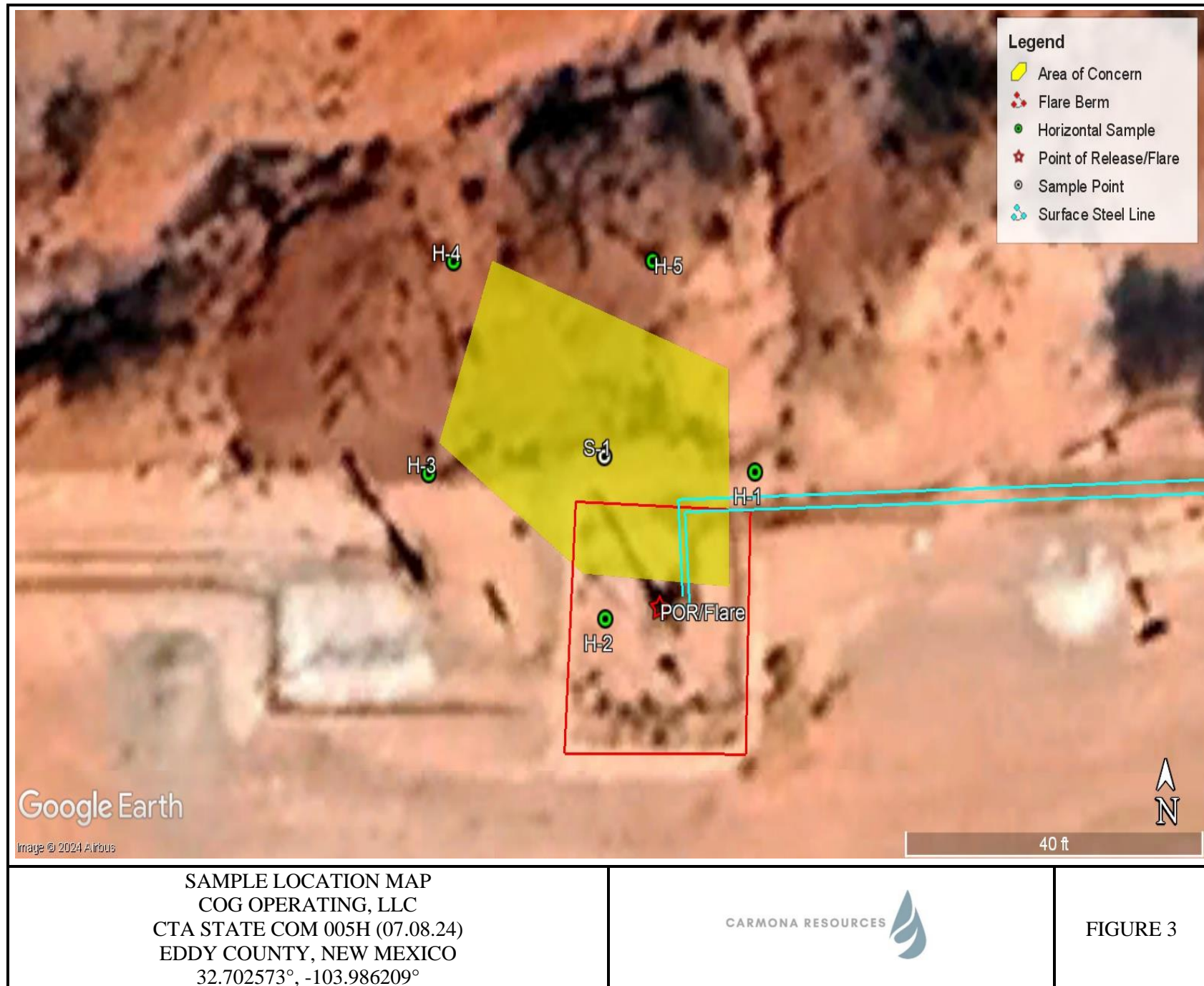
FIGURE 1

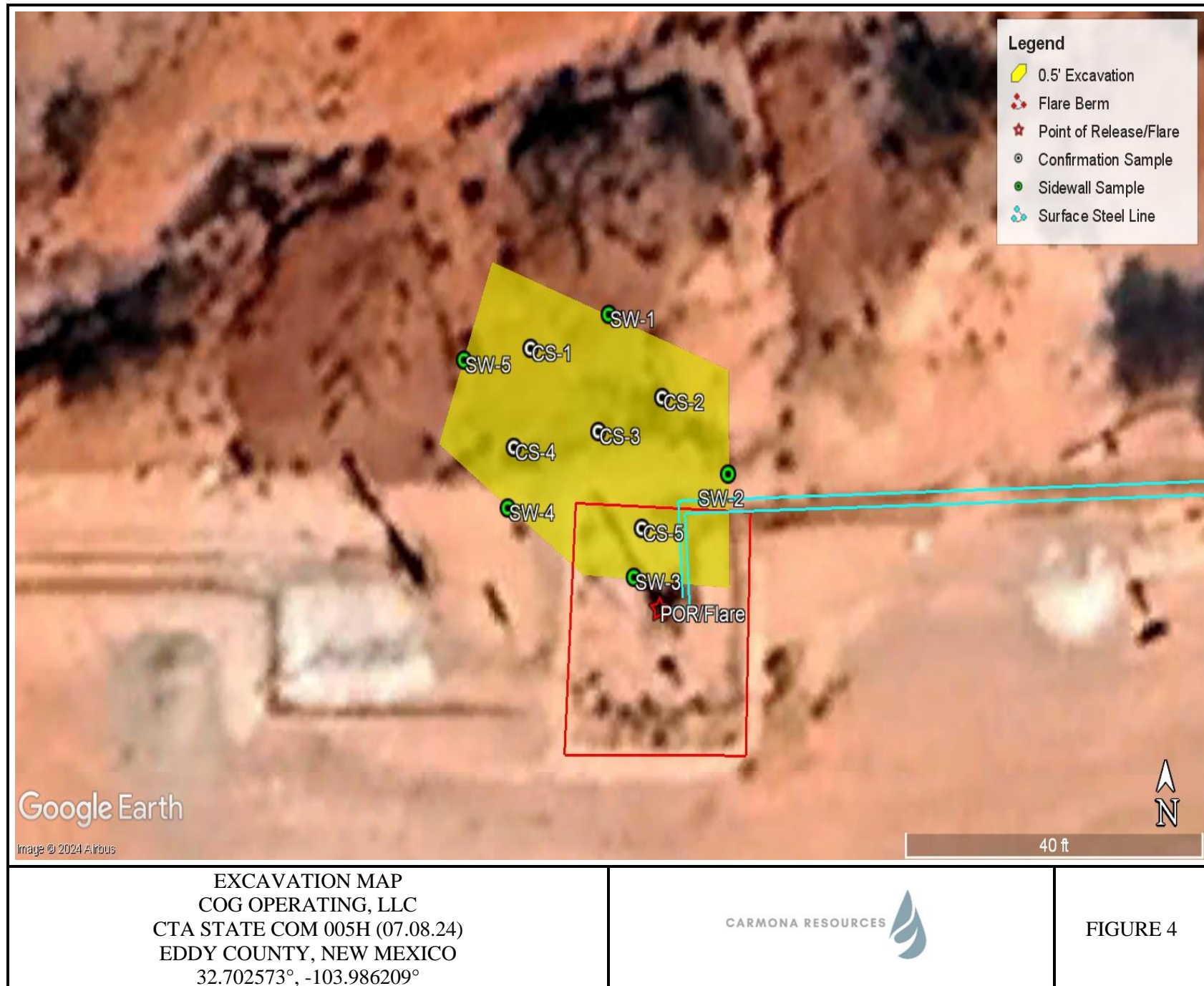


TOPOGRAPHIC MAP
 COG OPERATING, LLC
 CTA STATE COM 005H (07.08.24)
 EDDY COUNTY, NEW MEXICO
 32.702573°, -103.986209°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating
CTA State Com 005H (07.08.24)
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	8/12/2024	0-3"	<252	2,900	<252	2,900	<0.00199	0.00219	<0.00199	<0.00398	<0.00398	5.16
	"	6"	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	0.00582	0.00582	9.48
H-1	8/12/2024	0-0.5'	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	28.8
H-2	8/12/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	7.00
H-3	8/12/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	8.97
H-4	8/12/2024	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7.03
H-5	8/12/2024	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	8.06
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
CTA State Com 005H (07.08.24)
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						
CS-1	8/21/2024	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.96
CS-2	8/21/2024	0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.05
CS-3	8/21/2024	0.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.97
CS-4	8/21/2024	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.96
CS-5	8/21/2024	0.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.95
SW-1	8/21/2024	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.97
SW-2	8/21/2024	0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	7.34
SW-3	8/21/2024	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<4.96
SW-4	8/21/2024	0.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.00
SW-5	8/21/2024	0.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.22
PB Materials Pit Sample	8/21/2024	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.97
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

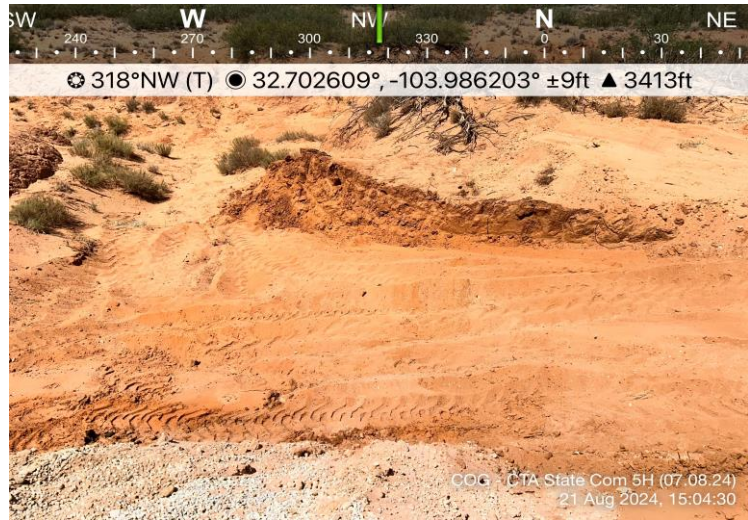
APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**COG Operating, LLC****Photograph No. 1****Facility:** CTA State Com 005H (07.08.24)**County:** Eddy County, New Mexico**Description:**

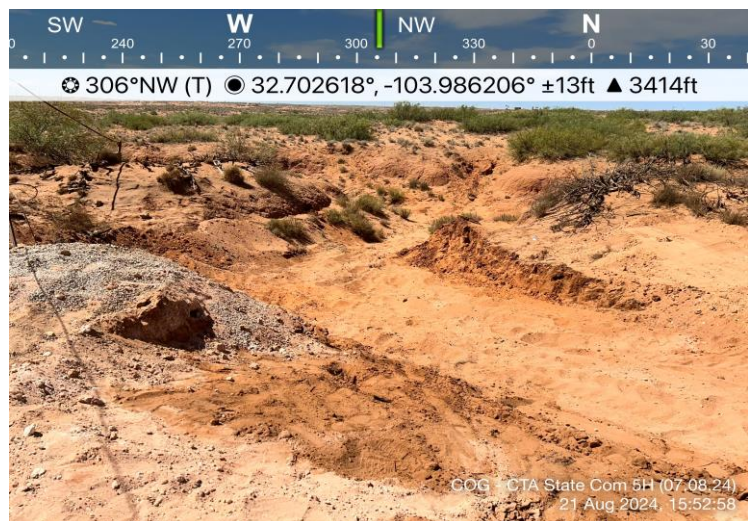
View Northwest, area of CS-1 through CS-3.

**Photograph No. 2****Facility:** CTA State Com 005H (07.08.24)**County:** Eddy County, New Mexico**Description:**

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

**Photograph No. 3****Facility:** CTA State Com 005H (07.08.24)**County:** Eddy County, New Mexico**Description:**

View Northwest, area of CS-1 through CS-5.



APPENDIX C

CARMONA RESOURCES



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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

<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: _____

Facility Name & Well Number(s):				CTA State Com #5			Release Discovery Date & Time:		7.8.24		
Provide any known details about the event:							Primary Cause (dropdown):		Secondary Cause (dropdown):		
				Recovered Volume (bbl.) (if available, not included in volume calculations)	Method of Determination (dropdown)	Release Type (dropdown):	> 1/2" of Rain in Last 24 Hours (dropdown):	% Rainwater Recovered (not included in volume calculations, informational):			
BU:	Permian	Asset Area:	DBE - Asset Avg.		Field Measurement	Oil Mixture	No				
Known Volume (dropdown):				No							
Known Area (dropdown):				No							

Spill Calculation - Subsurface Spill - Rectangle											Remediation Recommendation	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%)	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³)	Current Rule of Thumb RMR Handover Volume (yd ³)
Rectangle A	15.0	10.0	1.0	On-Pad	10.50%	2.23	0.23		0.00	0.23	0.58	750
Rectangle B	20.0	15.0	0.4	Off-Pad	15.02%	1.78	0.27		0.00	0.27	0.46	
Rectangle C						0.00					0.00	
Rectangle D						0.00					0.00	
Rectangle E						0.00					0.00	
Rectangle F						0.00					0.00	
Rectangle G						0.00					0.00	
Rectangle H						0.00					0.00	
Rectangle I						0.00					0.00	
						0.00					0.00	
Total Subsurface Volume Released:							0.5010		0.0000	0.5010	1.04	BU

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

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

QUESTIONS

Action 374948

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 374948
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420734164
Incident Name	NAPP2420734164 CTA STATE COM 005H @ 0
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203449986] CTA ST Com 5H Battery

Location of Release Source	
Site Name	CTA State Com 005H
Date Release Discovered	07/08/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,050
What is the estimated number of samples that will be gathered	11
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/21/2024
Time sampling will commence	01:00 PM
Please provide any information necessary for observers to contact samplers	Conner Moerhring (432) 813- 6823
Please provide any information necessary for navigation to sampling site	coordinates on c-141

District I
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 374948

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 374948
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/19/2024

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



Nearest water well

COG Operating

Legend

- 0.47 Miles
- 0.50 Mile Radius
- CTA State Com 005H (07.08.2024)
- USGS Water Well



medium karst

COG Operating

Legend

- CTA State Com 005H (07.08.2024)
- High
- Low
- Medium

CTA State Com 005H (07.08.2024)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
CP 00819 POD1		CP	LE		NE	SE	32	18S	30E	594878.0	3618720.0 *		175	150		
CP 00853 POD1	O	CP	ED		NE	SE	28	18S	30E	596472.0	3620340.0 *		2132	350		

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 2

UTM Filters (in meters):

Easting: 595051.00

Northing: 3618750.00

Radius: 4000

* UTM location was derived from PLSS - see Help

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



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324154103593301

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

USGS 324154103593301 18S.30E.32.32422

Eddy County, New Mexico
Latitude 32°41'54", Longitude 103°59'33" NAD27
Land-surface elevation 3,374 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1968-03-08			D	62610	3208.02	NGVD29	1		Z	
1968-03-08			D	62611	3209.55	NAVD88	1		Z	
1968-03-08			D	72019	164.45		1		Z	
1971-04-08			D	62610	3211.19	NGVD29	1		Z	
1971-04-08			D	62611	3212.72	NAVD88	1		Z	
1971-04-08			D	72019	161.28		1		Z	

Explanation

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

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

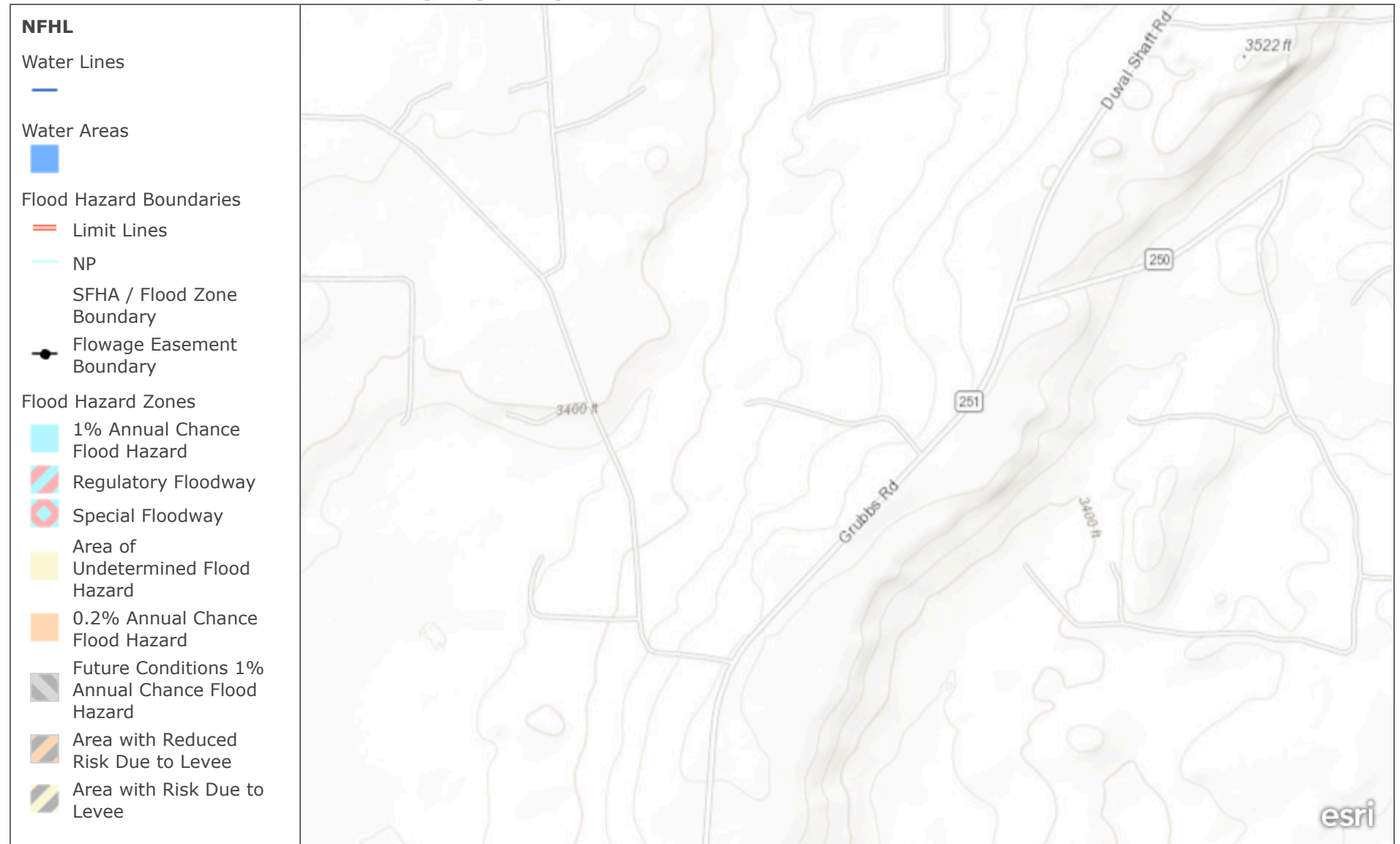
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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2024-08-08 14:24:13 EDT
0.26 0.23 nadww01

FEMA National Flood Hazard Layer (NFHL)



FEMA flood layer

0.3mi

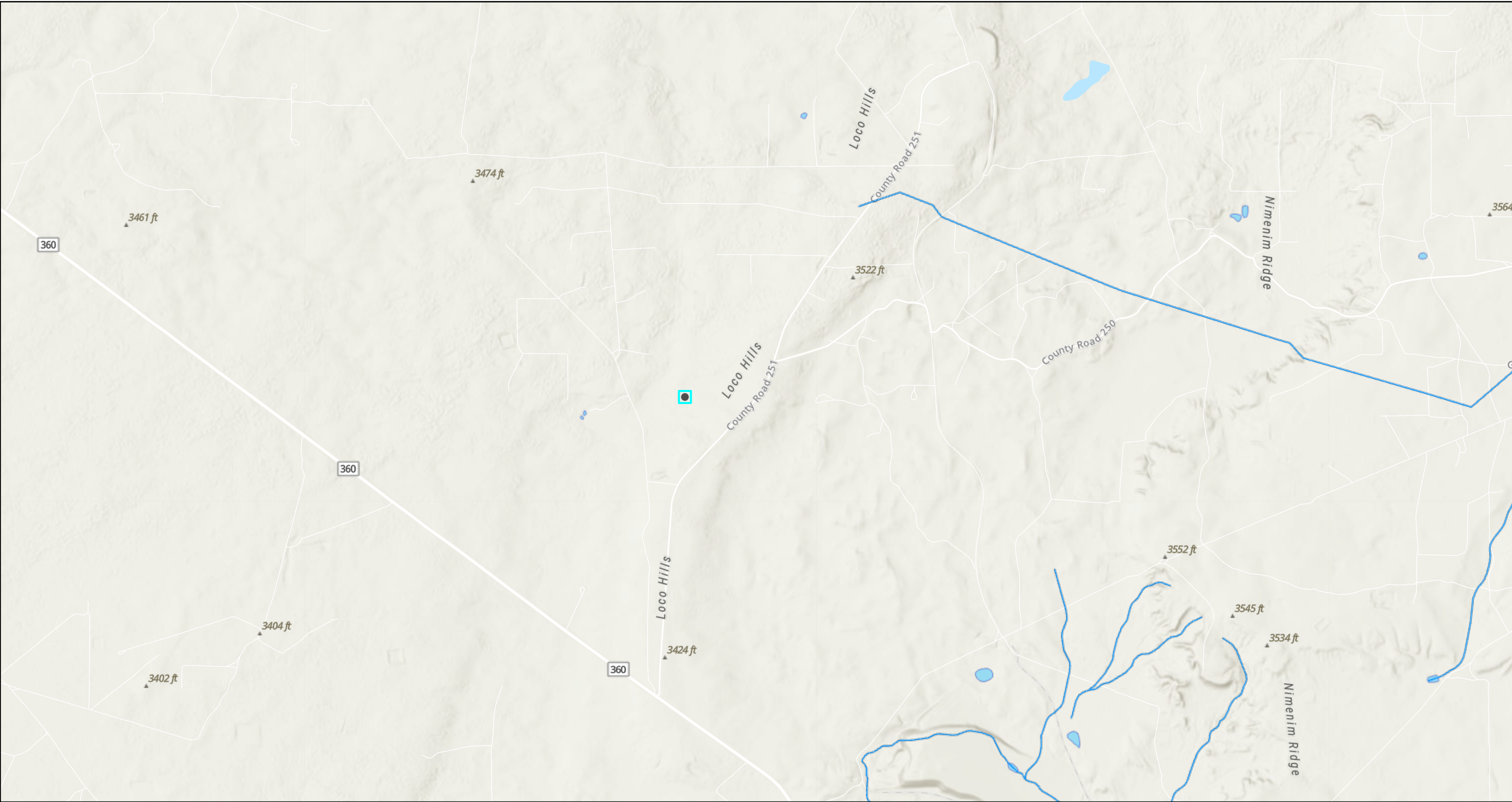
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)



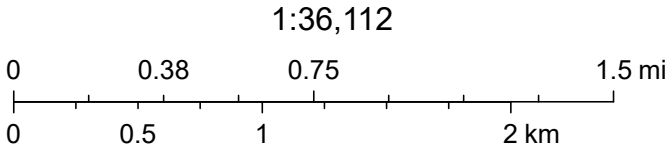
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CTA State Com 005H (07.08.2024)



8/8/2024, 9:52:48 AM

- 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: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 8/16/2024 4:29:49 PM

JOB DESCRIPTION

CTA State com 5H (07.08.24)
Eddy County, New Mexico

JOB NUMBER

880-47291-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

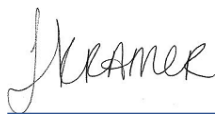
Eurofins Midland

Job Notes

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

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

Authorization



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8/16/2024 4:29:49 PM

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

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Laboratory Job ID: 880-47291-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
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: CTA State com 5H (07.08.24)

Job ID: 880-47291-1

Job ID: 880-47291-1

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Job Narrative 880-47291-1

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

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

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

Receipt

The samples were received on 8/15/2024 4:42 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 -0.7°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0"-3") (880-47291-1) and S-1 (6") (880-47291-2).

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 surrogate recovery for the blank associated with preparation batch 880-88586 and analytical batch 880-88569 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-88586/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-88586 and analytical batch 880-88569 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0"-3")

Lab Sample ID: 880-47291-1

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 13:33	1
Toluene	0.00219		0.00199		mg/Kg		08/15/24 20:46	08/16/24 13:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:46	08/16/24 13:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/15/24 20:46	08/16/24 13:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:46	08/16/24 13:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/15/24 20:46	08/16/24 13:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/15/24 20:46	08/16/24 13:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/15/24 20:46	08/16/24 13:33	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			08/16/24 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2900		252		mg/Kg			08/16/24 11:59	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	<252	U	252		mg/Kg		08/16/24 09:23	08/16/24 11:59	5
Diesel Range Organics (Over C10-C28)	2900		252		mg/Kg		08/16/24 09:23	08/16/24 11:59	5
Oil Range Organics (Over C28-C36)	<252	U	252		mg/Kg		08/16/24 09:23	08/16/24 11:59	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/16/24 09:23	08/16/24 11:59	5
o-Terphenyl	79		70 - 130	08/16/24 09:23	08/16/24 11:59	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.16		5.01		mg/Kg			08/16/24 11:41	1

Client Sample ID: S-1 (6")

Lab Sample ID: 880-47291-2

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 13:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 13:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 13:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:46	08/16/24 13:54	1
o-Xylene	0.00582		0.00201		mg/Kg		08/15/24 20:46	08/16/24 13:54	1
Xylenes, Total	0.00582		0.00402		mg/Kg		08/15/24 20:46	08/16/24 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/15/24 20:46	08/16/24 13:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/15/24 20:46	08/16/24 13:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (6")
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47291-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	0.00582		0.00402		mg/Kg			08/16/24 13:54	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			08/16/24 10:50	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		08/16/24 09:23	08/16/24 10:50	1	
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		08/16/24 09:23	08/16/24 10:50	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/16/24 09:23	08/16/24 10:50	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	85		70 - 130				08/16/24 09:23	08/16/24 10:50	1	
o-Terphenyl	94		70 - 130				08/16/24 09:23	08/16/24 10:50	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	9.48		4.97		mg/Kg			08/16/24 11:59	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
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)
880-47291-1	S-1 (0"-3")	104	100
880-47291-2	S-1 (6")	113	99
880-47293-A-21-B MS	Matrix Spike	98	103
880-47293-A-21-C MSD	Matrix Spike Duplicate	100	105
LCS 880-88568/1-A	Lab Control Sample	98	105
LCSD 880-88568/2-A	Lab Control Sample Dup	98	107
MB 880-88568/5-A	Method Blank	102	91
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)
880-47291-1	S-1 (0"-3")	90	79
880-47291-2	S-1 (6")	85	94
880-47291-2 MS	S-1 (6")	95	91
880-47291-2 MSD	S-1 (6")	93	89
LCS 880-88586/2-A	Lab Control Sample	120	123
LCSD 880-88586/3-A	Lab Control Sample Dup	122	146 S1+
MB 880-88586/1-A	Method Blank	119	133 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88568/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88579							Prep Batch: 88568		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/15/24 20:46	08/16/24 11:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/15/24 20:46	08/16/24 11:08	1

Lab Sample ID: LCS 880-88568/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88579							Prep Batch: 88568		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1115		mg/Kg		112	70 - 130	
Toluene		0.100	0.1039		mg/Kg		104	70 - 130	
Ethylbenzene		0.100	0.1056		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene		0.200	0.2134		mg/Kg		107	70 - 130	
o-Xylene		0.100	0.1071		mg/Kg		107	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: LCSD 880-88568/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88579							Prep Batch: 88568			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1156		mg/Kg		116	70 - 130	4	35
Toluene		0.100	0.1069		mg/Kg		107	70 - 130	3	35
Ethylbenzene		0.100	0.1085		mg/Kg		108	70 - 130	3	35
m-Xylene & p-Xylene		0.200	0.2184		mg/Kg		109	70 - 130	2	35
o-Xylene		0.100	0.1096		mg/Kg		110	70 - 130	2	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	98		70 - 130							
1,4-Difluorobenzene (Surr)	107		70 - 130							

Lab Sample ID: 880-47293-A-21-B MS							Client Sample ID: Matrix Spike		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88579							Prep Batch: 88568		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	<0.00201	U	0.100	0.09422		mg/Kg		94	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47293-A-21-B MS
Matrix: Solid
Analysis Batch: 88579

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 88568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09378		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1874		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.100	0.09421		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 880-47293-A-21-C MSD
Matrix: Solid
Analysis Batch: 88579

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 88568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.1050		mg/Kg		105	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.09587		mg/Kg		96	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.100	0.09567		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1909		mg/Kg		95	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.09607		mg/Kg		96	70 - 130	2	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

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

Lab Sample ID: MB 880-88586/1-A
Matrix: Solid
Analysis Batch: 88569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88586

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		08/16/24 08:00	08/16/24 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/24 08:00	08/16/24 08:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/24 08:00	08/16/24 08:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	119		70 - 130						
o-Terphenyl	133	S1+	70 - 130						

Lab Sample ID: LCS 880-88586/2-A
Matrix: Solid
Analysis Batch: 88569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1082		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1106		mg/Kg		111	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-88586/2-A
Matrix: Solid
Analysis Batch: 88569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88586

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: LCSD 880-88586/3-A
Matrix: Solid
Analysis Batch: 88569

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88586

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1178		mg/Kg		118	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1180		mg/Kg		118	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	146	S1+	70 - 130

Lab Sample ID: 880-47291-2 MS
Matrix: Solid
Analysis Batch: 88569

Client Sample ID: S-1 (6")
Prep Type: Total/NA
Prep Batch: 88586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1204		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	630.6	F1	mg/Kg		63	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 880-47291-2 MSD
Matrix: Solid
Analysis Batch: 88569

Client Sample ID: S-1 (6")
Prep Type: Total/NA
Prep Batch: 88586

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1181		mg/Kg		118	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	614.3	F1	mg/Kg		61	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88563/1-A Matrix: Solid Analysis Batch: 88597										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analized	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			08/16/24 11:22	1		

Lab Sample ID: LCS 880-88563/2-A Matrix: Solid Analysis Batch: 88597										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.2		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-88563/3-A Matrix: Solid Analysis Batch: 88597										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	243.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-47291-1 MS Matrix: Solid Analysis Batch: 88597										Client Sample ID: S-1 (0"-3") Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5.16		251	242.1		mg/Kg		95	90 - 110		

Lab Sample ID: 880-47291-1 MSD Matrix: Solid Analysis Batch: 88597										Client Sample ID: S-1 (0"-3") Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.16		251	242.8		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 88568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47291-1	S-1 (0"-3")	Total/NA	Solid	5035	
880-47291-2	S-1 (6")	Total/NA	Solid	5035	
MB 880-88568/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88568/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88568/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47293-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
880-47293-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 88579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47291-1	S-1 (0"-3")	Total/NA	Solid	8021B	88568
880-47291-2	S-1 (6")	Total/NA	Solid	8021B	88568
MB 880-88568/5-A	Method Blank	Total/NA	Solid	8021B	88568
LCS 880-88568/1-A	Lab Control Sample	Total/NA	Solid	8021B	88568
LCSD 880-88568/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88568
880-47293-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	88568
880-47293-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	88568

Analysis Batch: 88691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47291-1	S-1 (0"-3")	Total/NA	Solid	Total BTEX	
880-47291-2	S-1 (6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 88569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47291-1	S-1 (0"-3")	Total/NA	Solid	8015B NM	88586
880-47291-2	S-1 (6")	Total/NA	Solid	8015B NM	88586
MB 880-88586/1-A	Method Blank	Total/NA	Solid	8015B NM	88586
LCS 880-88586/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88586
LCSD 880-88586/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88586
880-47291-2 MS	S-1 (6")	Total/NA	Solid	8015B NM	88586
880-47291-2 MSD	S-1 (6")	Total/NA	Solid	8015B NM	88586

Prep Batch: 88586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47291-1	S-1 (0"-3")	Total/NA	Solid	8015NM Prep	
880-47291-2	S-1 (6")	Total/NA	Solid	8015NM Prep	
MB 880-88586/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88586/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88586/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47291-2 MS	S-1 (6")	Total/NA	Solid	8015NM Prep	
880-47291-2 MSD	S-1 (6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47291-1	S-1 (0"-3")	Total/NA	Solid	8015 NM	
880-47291-2	S-1 (6")	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 88563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47291-1	S-1 (0"-3")	Soluble	Solid	DI Leach	
880-47291-2	S-1 (6")	Soluble	Solid	DI Leach	
MB 880-88563/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88563/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88563/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47291-1 MS	S-1 (0"-3")	Soluble	Solid	DI Leach	
880-47291-1 MSD	S-1 (0"-3")	Soluble	Solid	DI Leach	

Analysis Batch: 88597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47291-1	S-1 (0"-3")	Soluble	Solid	300.0	88563
880-47291-2	S-1 (6")	Soluble	Solid	300.0	88563
MB 880-88563/1-A	Method Blank	Soluble	Solid	300.0	88563
LCS 880-88563/2-A	Lab Control Sample	Soluble	Solid	300.0	88563
LCSD 880-88563/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88563
880-47291-1 MS	S-1 (0"-3")	Soluble	Solid	300.0	88563
880-47291-1 MSD	S-1 (0"-3")	Soluble	Solid	300.0	88563

Lab Chronicle

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0"-3")
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47291-1
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	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 13:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88691	08/16/24 13:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88687	08/16/24 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88586	08/16/24 09:23	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	88569	08/16/24 11:59	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 11:41	CH	EET MID

Client Sample ID: S-1 (6")
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47291-2
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			4.97 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88691	08/16/24 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88687	08/16/24 10:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	88586	08/16/24 09:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88569	08/16/24 10:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 11:59	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: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
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: CTA State com 5H (07.08.24)

Job ID: 880-47291-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47291-1	S-1 (0"-3")	Solid	08/12/24 00:00	08/15/24 16:42
880-47291-2	S-1 (6")	Solid	08/12/24 00:00	08/15/24 16:42

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- 12
- 13
- 14

Chain of Custody



880-47291 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:	rncarmona@carmonaresources.com	

Work Order Comments	
Program: <input type="checkbox"/> UST/ <input type="checkbox"/> PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> uperfund <input type="checkbox"/>	
State of Project:	
Reporting: <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: <input type="checkbox"/> 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>Tommy Infante</i>	8/15/24	<i>[Signature]</i>	8/15/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-47291-1
SDG Number: Eddy County, New Mexico

Login Number: 47291
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: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 8/16/2024 5:09:56 PM

JOB DESCRIPTION

CTA State com 5H (07.08.24)
Eddy County, New Mexico

JOB NUMBER

880-47292-1

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
8/16/2024 5:09:56 PM

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

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Laboratory Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: CTA State com 5H (07.08.24)

Job ID: 880-47292-1

Job ID: 880-47292-1

Eurofins Midland

Job Narrative
880-47292-1

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

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

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

Receipt

The samples were received on 8/15/2024 4:42 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 -0.7°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0'-0.5') (880-47292-1), H-2 (0'-0.5') (880-47292-2), H-3 (0'-0.5') (880-47292-3), H-4 (0'-0.5') (880-47292-4) and H-5 (0'-0.5') (880-47292-5).

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 surrogate recovery for the blank associated with preparation batch 880-88586 and analytical batch 880-88569 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-88586/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-88586 and analytical batch 880-88569 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47292-1

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 14:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 14:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 14:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/15/24 20:46	08/16/24 14:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 14:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/15/24 20:46	08/16/24 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/15/24 20:46	08/16/24 14:14	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/15/24 20:46	08/16/24 14:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/16/24 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/16/24 12:19	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	<50.5	U	50.5		mg/Kg		08/16/24 09:23	08/16/24 12:19	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/16/24 09:23	08/16/24 12:19	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/16/24 09:23	08/16/24 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/16/24 09:23	08/16/24 12:19	1
o-Terphenyl	96		70 - 130	08/16/24 09:23	08/16/24 12:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8		4.99		mg/Kg			08/16/24 12:05	1

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

Lab Sample ID: 880-47292-2

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 14:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 14:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 14:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 20:46	08/16/24 14:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 14:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 20:46	08/16/24 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/15/24 20:46	08/16/24 14:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/15/24 20:46	08/16/24 14:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47292-2

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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			08/16/24 14:35	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			08/16/24 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/16/24 09:23	08/16/24 12:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/16/24 09:23	08/16/24 12:39	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/16/24 09:23	08/16/24 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/16/24 09:23	08/16/24 12:39	1
o-Terphenyl	94		70 - 130				08/16/24 09:23	08/16/24 12:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.00		4.98		mg/Kg			08/16/24 12:11	1

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

Lab Sample ID: 880-47292-3

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:46	08/16/24 16:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 16:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 16:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/15/24 20:46	08/16/24 16:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/15/24 20:46	08/16/24 16:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/15/24 20:46	08/16/24 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/15/24 20:46	08/16/24 16:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/15/24 20:46	08/16/24 16:17	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			08/16/24 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/16/24 12:59	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		08/16/24 09:23	08/16/24 12:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/16/24 09:23	08/16/24 12:59	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47292-3

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/16/24 09:23	08/16/24 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/16/24 09:23	08/16/24 12:59	1
o-Terphenyl	93		70 - 130				08/16/24 09:23	08/16/24 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.97		4.98		mg/Kg			08/16/24 12:17	1

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

Lab Sample ID: 880-47292-4

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/15/24 20:42	08/16/24 16:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:42	08/16/24 16:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:42	08/16/24 16:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/15/24 20:42	08/16/24 16:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/15/24 20:42	08/16/24 16:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/15/24 20:42	08/16/24 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/15/24 20:42	08/16/24 16:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/15/24 20:42	08/16/24 16:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/16/24 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/16/24 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/16/24 09:23	08/16/24 13:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/16/24 09:23	08/16/24 13:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/16/24 09:23	08/16/24 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/16/24 09:23	08/16/24 13:20	1
o-Terphenyl	89		70 - 130				08/16/24 09:23	08/16/24 13:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.03		5.00		mg/Kg			08/16/24 12:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

Client Sample ID: H-5 (0'-0.5')

Lab Sample ID: 880-47292-5

Date Collected: 08/12/24 00:00

Matrix: Solid

Date Received: 08/15/24 16:42

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		08/16/24 08:19	08/16/24 16:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 16:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 16:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/16/24 08:19	08/16/24 16:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/16/24 08:19	08/16/24 16:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/16/24 08:19	08/16/24 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	08/16/24 08:19	08/16/24 16:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/16/24 08:19	08/16/24 16:23	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			08/16/24 16:23	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			08/16/24 13:40	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		08/16/24 09:23	08/16/24 13:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/16/24 09:23	08/16/24 13:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/16/24 09:23	08/16/24 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/16/24 09:23	08/16/24 13:40	1
o-Terphenyl	85		70 - 130	08/16/24 09:23	08/16/24 13:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.06		5.04		mg/Kg			08/16/24 12:41	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
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	DFBZ1				
		(70-130)	(70-130)				
880-47292-1	H-1 (0'-0.5')	108	94				
880-47292-2	H-2 (0'-0.5')	112	97				
880-47292-3	H-3 (0'-0.5')	104	93				
880-47292-4	H-4 (0'-0.5')	111	94				
880-47292-5	H-5 (0'-0.5')	131 S1+	95				
880-47293-A-1-B MS	Matrix Spike	105	99				
880-47293-A-1-C MSD	Matrix Spike Duplicate	107	98				
880-47293-A-11-C MS	Matrix Spike	122	92				
880-47293-A-11-D MSD	Matrix Spike Duplicate	118	92				
880-47293-A-21-B MS	Matrix Spike	98	103				
880-47293-A-21-C MSD	Matrix Spike Duplicate	100	105				
LCS 880-88567/1-A	Lab Control Sample	107	100				
LCS 880-88568/1-A	Lab Control Sample	98	105				
LCS 880-88583/1-A	Lab Control Sample	123	93				
LCSD 880-88567/2-A	Lab Control Sample Dup	102	99				
LCSD 880-88568/2-A	Lab Control Sample Dup	98	107				
LCSD 880-88583/2-A	Lab Control Sample Dup	118	92				
MB 880-88567/5-A	Method Blank	109	90				
MB 880-88568/5-A	Method Blank	102	91				
MB 880-88583/5-A	Method Blank	119	90				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-47291-A-2-E MS	Matrix Spike	95	91				
880-47291-A-2-F MSD	Matrix Spike Duplicate	93	89				
880-47292-1	H-1 (0'-0.5')	89	96				
880-47292-2	H-2 (0'-0.5')	88	94				
880-47292-3	H-3 (0'-0.5')	85	93				
880-47292-4	H-4 (0'-0.5')	83	89				
880-47292-5	H-5 (0'-0.5')	80	85				
LCS 880-88586/2-A	Lab Control Sample	120	123				
LCSD 880-88586/3-A	Lab Control Sample Dup	122	146 S1+				
MB 880-88586/1-A	Method Blank	119	133 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88567/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88581							Prep Batch: 88567		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 20:42	08/16/24 11:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/15/24 20:42	08/16/24 11:34	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/15/24 20:42	08/16/24 11:34	1

Lab Sample ID: LCS 880-88567/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88581							Prep Batch: 88567		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1170		mg/Kg		117	70 - 130	
Toluene		0.100	0.1056		mg/Kg		106	70 - 130	
Ethylbenzene		0.100	0.1089		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene		0.200	0.2297		mg/Kg		115	70 - 130	
o-Xylene		0.100	0.1127		mg/Kg		113	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: LCSD 880-88567/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88581							Prep Batch: 88567			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1242		mg/Kg		124	70 - 130	6	35
Toluene		0.100	0.1117		mg/Kg		112	70 - 130	6	35
Ethylbenzene		0.100	0.1145		mg/Kg		115	70 - 130	5	35
m-Xylene & p-Xylene		0.200	0.2416		mg/Kg		121	70 - 130	5	35
o-Xylene		0.100	0.1185		mg/Kg		118	70 - 130	5	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	102		70 - 130							
1,4-Difluorobenzene (Surr)	99		70 - 130							

Lab Sample ID: 880-47293-A-1-B MS							Client Sample ID: Matrix Spike		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88581							Prep Batch: 88567		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1167		mg/Kg		117	70 - 130
Toluene	<0.00200	U	0.100	0.1040		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47293-A-1-B MS
Matrix: Solid
Analysis Batch: 88581

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 88567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1057		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2220		mg/Kg		111	70 - 130
o-Xylene	<0.00200	U	0.100	0.1090		mg/Kg		109	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	105		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 880-47293-A-1-C MSD
Matrix: Solid
Analysis Batch: 88581

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 88567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1089		mg/Kg		109	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.09748		mg/Kg		97	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.09917		mg/Kg		99	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2072		mg/Kg		104	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.1015		mg/Kg		102	70 - 130	7	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	107		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

Lab Sample ID: MB 880-88568/5-A
Matrix: Solid
Analysis Batch: 88579

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88568

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/15/24 20:46	08/16/24 11:08	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
4-Bromofluorobenzene (Surr)	102		70 - 130				08/15/24 20:46	08/16/24 11:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/15/24 20:46	08/16/24 11:08	1

Lab Sample ID: LCS 880-88568/1-A
Matrix: Solid
Analysis Batch: 88579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1115		mg/Kg		112	70 - 130
Toluene	0.100	0.1039		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2134		mg/Kg		107	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-88568/1-A

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130

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

Lab Sample ID: LCSD 880-88568/2-A

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88568

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1156		mg/Kg		116	70 - 130	4	35
Toluene	0.100	0.1069		mg/Kg		107	70 - 130	3	35
Ethylbenzene	0.100	0.1085		mg/Kg		108	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2184		mg/Kg		109	70 - 130	2	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-47293-A-21-B MS

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 88568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	<0.00201	U	0.100	0.09422		mg/Kg		94	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09378		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1874		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.100	0.09421		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-47293-A-21-C MSD

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 88568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.1050		mg/Kg		105	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.09587		mg/Kg		96	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.100	0.09567		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1909		mg/Kg		95	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.09607		mg/Kg		96	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47293-A-21-C MSD

Matrix: Solid

Analysis Batch: 88579

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 88568

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-88583/5-A

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88583

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/24 08:19	08/16/24 11:20	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/16/24 08:19	08/16/24 11:20	1	
1,4-Difluorobenzene (Surr)	90		70 - 130				08/16/24 08:19	08/16/24 11:20	1	

Lab Sample ID: LCS 880-88583/1-A

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88583

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1165		mg/Kg		116	70 - 130			
Toluene	0.100	0.1193		mg/Kg		119	70 - 130			
Ethylbenzene	0.100	0.1195		mg/Kg		119	70 - 130			
m-Xylene & p-Xylene	0.200	0.2449		mg/Kg		122	70 - 130			
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	123		70 - 130							
1,4-Difluorobenzene (Surr)	93		70 - 130							

Lab Sample ID: LCSD 880-88583/2-A

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88583

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1097		mg/Kg		110	70 - 130	6	35	
Toluene	0.100	0.1124		mg/Kg		112	70 - 130	6	35	
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	6	35	
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130	6	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	118		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-88583/2-A

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88583

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-47293-A-11-C MS

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 88583

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.100	0.1172		mg/Kg		117	70 - 130
Toluene	<0.00201	U	0.100	0.1205		mg/Kg		121	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.1216		mg/Kg		122	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2470		mg/Kg		124	70 - 130
o-Xylene	<0.00201	U	0.100	0.1221		mg/Kg		122	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-47293-A-11-D MSD

Matrix: Solid

Analysis Batch: 88580

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 88583

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Benzene	<0.00201	U	0.100	0.1163		mg/Kg		116	70 - 130	1
Toluene	<0.00201	U	0.100	0.1192		mg/Kg		119	70 - 130	1
Ethylbenzene	<0.00201	U	0.100	0.1199		mg/Kg		120	70 - 130	1
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2431		mg/Kg		122	70 - 130	2
o-Xylene	<0.00201	U	0.100	0.1202		mg/Kg		120	70 - 130	2

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-88586/1-A

Matrix: Solid

Analysis Batch: 88569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88586

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/16/24 08:00	08/16/24 08:29	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/16/24 08:00	08/16/24 08:29	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/16/24 08:00	08/16/24 08:29	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	119		70 - 130	08/16/24 08:00	08/16/24 08:29	1				
o-Terphenyl	133	S1+	70 - 130	08/16/24 08:00	08/16/24 08:29	1				

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-88586/2-A

Matrix: Solid

Analysis Batch: 88569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1082		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1106		mg/Kg		111	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	120		70 - 130				
o-Terphenyl	123		70 - 130				

Lab Sample ID: LCSD 880-88586/3-A

Matrix: Solid

Analysis Batch: 88569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88586

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1178		mg/Kg		118	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1180		mg/Kg		118	70 - 130	6	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	122		70 - 130						
o-Terphenyl	146	S1+	70 - 130						

Lab Sample ID: 880-47291-A-2-E MS

Matrix: Solid

Analysis Batch: 88569

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 88586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1204		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	630.6	F1	mg/Kg		63	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
1-Chlorooctane	95		70 - 130						
o-Terphenyl	91		70 - 130						

Lab Sample ID: 880-47291-A-2-F MSD

Matrix: Solid

Analysis Batch: 88569

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 88586

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1181		mg/Kg		118	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1000	614.3	F1	mg/Kg		61	70 - 130	3	20
Surrogate	%Recovery	MSD Qualifier	Limits								
1-Chlorooctane	93		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47291-A-2-F MSD				Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 88569				Prep Batch: 88586			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
o-Terphenyl	89		70 - 130				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88563/1-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Soluble		
Analysis Batch: 88597									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/16/24 11:22	1

Lab Sample ID: LCS 880-88563/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 88597									
			Spike	LCS	LCS			%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	243.2		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-88563/3-A					Client Sample ID: Lab Control Sample Dup							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 88597												
			Spike		LCSD	LCSD			%Rec		RPD	
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		243.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-47291-A-1-B MS							Client Sample ID: Matrix Spike			
Matrix: Solid							Prep Type: Soluble			
Analysis Batch: 88597										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5.16		251	242.1		mg/Kg	-	95	90 - 110	

Lab Sample ID: 880-47291-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 88597

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Chloride	5.16		251	242.8		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Carmona Resources

Job ID: 880-47292-1

Project/Site: CTA State com 5H (07.08.24)

SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 88567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-4	H-4 (0'-0.5')	Total/NA	Solid	5035	
MB 880-88567/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88567/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88567/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47293-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-47293-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 88568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-1	H-1 (0'-0.5')	Total/NA	Solid	5035	
880-47292-2	H-2 (0'-0.5')	Total/NA	Solid	5035	
880-47292-3	H-3 (0'-0.5')	Total/NA	Solid	5035	
MB 880-88568/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88568/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88568/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47293-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
880-47293-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 88579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-1	H-1 (0'-0.5')	Total/NA	Solid	8021B	88568
880-47292-2	H-2 (0'-0.5')	Total/NA	Solid	8021B	88568
880-47292-3	H-3 (0'-0.5')	Total/NA	Solid	8021B	88568
MB 880-88568/5-A	Method Blank	Total/NA	Solid	8021B	88568
LCS 880-88568/1-A	Lab Control Sample	Total/NA	Solid	8021B	88568
LCSD 880-88568/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88568
880-47293-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	88568
880-47293-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	88568

Analysis Batch: 88580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-5	H-5 (0'-0.5')	Total/NA	Solid	8021B	88583
MB 880-88583/5-A	Method Blank	Total/NA	Solid	8021B	88583
LCS 880-88583/1-A	Lab Control Sample	Total/NA	Solid	8021B	88583
LCSD 880-88583/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88583
880-47293-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	88583
880-47293-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	88583

Analysis Batch: 88581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-4	H-4 (0'-0.5')	Total/NA	Solid	8021B	88567
MB 880-88567/5-A	Method Blank	Total/NA	Solid	8021B	88567
LCS 880-88567/1-A	Lab Control Sample	Total/NA	Solid	8021B	88567
LCSD 880-88567/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88567
880-47293-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	88567
880-47293-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	88567

Prep Batch: 88583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-5	H-5 (0'-0.5')	Total/NA	Solid	5035	
MB 880-88583/5-A	Method Blank	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Prep Batch: 88583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-88583/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88583/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47293-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
880-47293-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 88692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-1	H-1 (0'-0.5')	Total/NA	Solid	Total BTEX	
880-47292-2	H-2 (0'-0.5')	Total/NA	Solid	Total BTEX	
880-47292-3	H-3 (0'-0.5')	Total/NA	Solid	Total BTEX	
880-47292-4	H-4 (0'-0.5')	Total/NA	Solid	Total BTEX	
880-47292-5	H-5 (0'-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 88569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-1	H-1 (0'-0.5')	Total/NA	Solid	8015B NM	88586
880-47292-2	H-2 (0'-0.5')	Total/NA	Solid	8015B NM	88586
880-47292-3	H-3 (0'-0.5')	Total/NA	Solid	8015B NM	88586
880-47292-4	H-4 (0'-0.5')	Total/NA	Solid	8015B NM	88586
880-47292-5	H-5 (0'-0.5')	Total/NA	Solid	8015B NM	88586
MB 880-88586/1-A	Method Blank	Total/NA	Solid	8015B NM	88586
LCS 880-88586/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88586
LCSD 880-88586/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88586
880-47291-A-2-E MS	Matrix Spike	Total/NA	Solid	8015B NM	88586
880-47291-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	88586

Prep Batch: 88586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-1	H-1 (0'-0.5')	Total/NA	Solid	8015NM Prep	
880-47292-2	H-2 (0'-0.5')	Total/NA	Solid	8015NM Prep	
880-47292-3	H-3 (0'-0.5')	Total/NA	Solid	8015NM Prep	
880-47292-4	H-4 (0'-0.5')	Total/NA	Solid	8015NM Prep	
880-47292-5	H-5 (0'-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-88586/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88586/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88586/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47291-A-2-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-47291-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-1	H-1 (0'-0.5')	Total/NA	Solid	8015 NM	
880-47292-2	H-2 (0'-0.5')	Total/NA	Solid	8015 NM	
880-47292-3	H-3 (0'-0.5')	Total/NA	Solid	8015 NM	
880-47292-4	H-4 (0'-0.5')	Total/NA	Solid	8015 NM	
880-47292-5	H-5 (0'-0.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 88563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-1	H-1 (0'-0.5')	Soluble	Solid	DI Leach	
880-47292-2	H-2 (0'-0.5')	Soluble	Solid	DI Leach	
880-47292-3	H-3 (0'-0.5')	Soluble	Solid	DI Leach	
880-47292-4	H-4 (0'-0.5')	Soluble	Solid	DI Leach	
880-47292-5	H-5 (0'-0.5')	Soluble	Solid	DI Leach	
MB 880-88563/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88563/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88563/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47291-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47291-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 88597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47292-1	H-1 (0'-0.5')	Soluble	Solid	300.0	88563
880-47292-2	H-2 (0'-0.5')	Soluble	Solid	300.0	88563
880-47292-3	H-3 (0'-0.5')	Soluble	Solid	300.0	88563
880-47292-4	H-4 (0'-0.5')	Soluble	Solid	300.0	88563
880-47292-5	H-5 (0'-0.5')	Soluble	Solid	300.0	88563
MB 880-88563/1-A	Method Blank	Soluble	Solid	300.0	88563
LCS 880-88563/2-A	Lab Control Sample	Soluble	Solid	300.0	88563
LCSD 880-88563/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88563
880-47291-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	88563
880-47291-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	88563

Lab Chronicle

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0'-0.5')
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47292-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88692	08/16/24 14:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88688	08/16/24 12:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88586	08/16/24 09:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88569	08/16/24 12:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 12:05	CH	EET MID

Client Sample ID: H-2 (0'-0.5')
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47292-2
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			5.00 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 14:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88692	08/16/24 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88688	08/16/24 12:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	88586	08/16/24 09:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88569	08/16/24 12:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 12:11	CH	EET MID

Client Sample ID: H-3 (0'-0.5')
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47292-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88568	08/15/24 20:46	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88579	08/16/24 16:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88692	08/16/24 16:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88688	08/16/24 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	88586	08/16/24 09:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88569	08/16/24 12:59	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 12:17	CH	EET MID

Client Sample ID: H-4 (0'-0.5')
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47292-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88567	08/15/24 20:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88581	08/16/24 16:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88692	08/16/24 16:36	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0'-0.5')
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47292-4
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			88688	08/16/24 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88586	08/16/24 09:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88569	08/16/24 13:20	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 12:35	CH	EET MID

Client Sample ID: H-5 (0'-0.5')
Date Collected: 08/12/24 00:00
Date Received: 08/15/24 16:42

Lab Sample ID: 880-47292-5
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			4.97 g	5 mL	88583	08/16/24 08:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88580	08/16/24 16:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88692	08/16/24 16:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			88688	08/16/24 13:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	88586	08/16/24 09:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88569	08/16/24 13:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88563	08/15/24 19:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88597	08/16/24 12:41	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: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
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: CTA State com 5H (07.08.24)

Job ID: 880-47292-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47292-1	H-1 (0'-0.5')	Solid	08/12/24 00:00	08/15/24 16:42
880-47292-2	H-2 (0'-0.5')	Solid	08/12/24 00:00	08/15/24 16:42
880-47292-3	H-3 (0'-0.5')	Solid	08/12/24 00:00	08/15/24 16:42
880-47292-4	H-4 (0'-0.5')	Solid	08/12/24 00:00	08/15/24 16:42
880-47292-5	H-5 (0'-0.5')	Solid	08/12/24 00:00	08/15/24 16:42

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Chain of Custody



880-47292 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: US/PT <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

ANALYSIS REQUEST									
Project Name:	Project Number:	Project Location	Sampler's Name:	PO #:	Turn Around			Pres. Code	# of Cont
					<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Due Date:		
CTA State com 5H (07.08.24)	2492	Eddy County, New Mexico	FV		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	24 HR		
Temp Blank:					Yes	No	Wet Ice:	Yes	No
Received Intact:					Yes	No	Thermometer ID:	Yes	No
Cooler Custody Seals:					Yes	No	Correction Factor:	Yes	No
Sample Custody Seals:					Yes	No	Temperature Reading:	Yes	No
Total Containers:					Yes	No	Corrected Temperature:	Yes	No
Sample Identification	Date	Time	Soil	Water	Grab/Comp				
H-1 (0'-0.5')	8/12/2024		X		G	1	X	X	
H-2 (0'-0.5')	8/12/2024		X		G	1	X	X	
H-3 (0'-0.5')	8/12/2024		X		G	1	X	X	
H-4 (0'-0.5')	8/12/2024		X		G	1	X	X	
H-5 (0'-0.5')	8/12/2024		X		G	1	X	X	
BTX 8021B									
TPH 8015M (GRO + DRO + MRO)									
Chloride 300.0									
Parameters									
Preservative Codes									
None: NO									
Cool: Cool									
HCL: HC									
H ₂ SO ₄ : H ₂									
H ₃ PO ₄ : HP									
NaHSO ₄ : NABIS									
Na ₂ S ₂ O ₃ : NaSO ₃									
Zn Acetate+NaOH: Zn									
NaOH+Ascorbic Acid: SAPC									
Sample Comments									

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Conner Moehring	8/15/24	[Signature]	8/15/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-47292-1
SDG Number: Eddy County, New Mexico

Login Number: 47292
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 8/26/2024 12:40:07 PM

JOB DESCRIPTION

CTA Sample Com 5H (07.08.24)
Eddy County, New Mexico

JOB NUMBER

880-47616-1

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
8/26/2024 12:40:07 PM

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

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Laboratory Job ID: 880-47616-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
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
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1

Job ID: 880-47616-1

Eurofins Midland

Job Narrative
880-47616-1

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

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

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

Receipt

The samples were received on 8/23/2024 9:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.8°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SW-2 (0.5') (880-47616-7). Percent recoveries are based on the amount spiked.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-89263 and analytical batch 880-89277 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (0.5')

Lab Sample ID: 880-47616-1

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 09:44	08/23/24 14:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 14:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 14:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 14:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 14:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/23/24 09:44	08/23/24 14:48	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/23/24 09:44	08/23/24 14:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/23/24 14:48	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			08/23/24 21:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/23/24 10:17	08/23/24 21:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/23/24 10:17	08/23/24 21:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/24 10:17	08/23/24 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/23/24 10:17	08/23/24 21:58	1
o-Terphenyl	84		70 - 130	08/23/24 10:17	08/23/24 21:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			08/23/24 15:55	1

Client Sample ID: CS-2 (0.5')

Lab Sample ID: 880-47616-2

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 09:44	08/23/24 15:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 15:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 15:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/23/24 09:44	08/23/24 15:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 15:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/23/24 09:44	08/23/24 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/23/24 09:44	08/23/24 15:08	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/23/24 09:44	08/23/24 15:08	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/23/24 15:08	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			08/23/24 22:46	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/23/24 22:46	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/23/24 22:46	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/23/24 22:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	92		70 - 130				08/23/24 10:17	08/23/24 22:46	1	
o-Terphenyl	79		70 - 130				08/23/24 10:17	08/23/24 22:46	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.05	U	5.05		mg/Kg			08/23/24 16:02	1	

Client Sample ID: CS-3 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 15:29	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 15:29	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 15:29	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 15:29	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 15:29	1	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 15:29	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	108		70 - 130				08/23/24 09:44	08/23/24 15:29	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				08/23/24 09:44	08/23/24 15:29	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/23/24 15:29	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			08/23/24 23:02	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/23/24 23:02	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/23/24 23:02	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (0.5')

Lab Sample ID: 880-47616-3

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/23/24 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/23/24 10:17	08/23/24 23:02	1
o-Terphenyl	80		70 - 130				08/23/24 10:17	08/23/24 23:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/23/24 16:10	1

Client Sample ID: CS-4 (0.5')

Lab Sample ID: 880-47616-4

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 09:44	08/23/24 15:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 15:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 15:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 15:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 15:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/23/24 09:44	08/23/24 15:49	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/23/24 09:44	08/23/24 15:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/23/24 15:49	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			08/23/24 23:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 23:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 23:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/23/24 10:17	08/23/24 23:18	1
o-Terphenyl	74		70 - 130				08/23/24 10:17	08/23/24 23:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			08/23/24 16:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-5 (0.5')

Lab Sample ID: 880-47616-5

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 09:44	08/23/24 16:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 16:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 16:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/23/24 09:44	08/23/24 16:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 16:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/23/24 09:44	08/23/24 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/23/24 09:44	08/23/24 16:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/23/24 09:44	08/23/24 16:10	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			08/23/24 16:10	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			08/23/24 23:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/23/24 10:17	08/23/24 23:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/23/24 10:17	08/23/24 23:34	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/23/24 10:17	08/23/24 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/23/24 10:17	08/23/24 23:34	1
o-Terphenyl	83		70 - 130	08/23/24 10:17	08/23/24 23:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			08/23/24 16:25	1

Client Sample ID: SW-1 (0.5')

Lab Sample ID: 880-47616-6

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 09:44	08/23/24 16:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 16:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 16:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 16:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 16:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/23/24 09:44	08/23/24 16:30	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/23/24 09:44	08/23/24 16:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/23/24 16:30	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			08/23/24 23:50	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		08/23/24 10:17	08/23/24 23:50	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 23:50	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 23:50	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	93		70 - 130				08/23/24 10:17	08/23/24 23:50	1	
o-Terphenyl	81		70 - 130				08/23/24 10:17	08/23/24 23:50	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<4.97	U	4.97		mg/Kg			08/24/24 00:29	1	

Client Sample ID: SW-2 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-7
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		08/23/24 09:44	08/23/24 16:51	1	
Toluene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 16:51	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 16:51	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/23/24 09:44	08/23/24 16:51	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/23/24 09:44	08/23/24 16:51	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/23/24 09:44	08/23/24 16:51	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	111		70 - 130				08/23/24 09:44	08/23/24 16:51	1	
1,4-Difluorobenzene (Surr)	98		70 - 130				08/23/24 09:44	08/23/24 16:51	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			08/23/24 16:51	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			08/24/24 00:06	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		08/23/24 10:17	08/24/24 00:06	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/24/24 00:06	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (0.5')

Lab Sample ID: 880-47616-7

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/24/24 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				08/23/24 10:17	08/24/24 00:06	1
o-Terphenyl	59	S1-	70 - 130				08/23/24 10:17	08/24/24 00:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.34		5.05		mg/Kg			08/24/24 00:35	1

Client Sample ID: SW-3 (0.5')

Lab Sample ID: 880-47616-8

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 09:44	08/23/24 17:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/23/24 09:44	08/23/24 17:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/23/24 09:44	08/23/24 17:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/23/24 09:44	08/23/24 17:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/23/24 09:44	08/23/24 17:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/23/24 09:44	08/23/24 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/23/24 09:44	08/23/24 17:11	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/23/24 09:44	08/23/24 17:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/23/24 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/24/24 00:21	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		08/23/24 10:17	08/24/24 00:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/23/24 10:17	08/24/24 00:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/24 10:17	08/24/24 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/23/24 10:17	08/24/24 00:21	1
o-Terphenyl	83		70 - 130				08/23/24 10:17	08/24/24 00:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			08/24/24 00:41	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (0.5')

Lab Sample ID: 880-47616-9

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 09:44	08/23/24 17:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 17:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 17:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 17:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 17:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/23/24 09:44	08/23/24 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/23/24 09:44	08/23/24 17:32	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/23/24 09:44	08/23/24 17:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/23/24 17:32	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			08/24/24 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/24/24 00:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/24/24 00:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/23/24 10:17	08/24/24 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	08/23/24 10:17	08/24/24 00:38	1
o-Terphenyl	92		70 - 130	08/23/24 10:17	08/24/24 00:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/24/24 00:47	1

Client Sample ID: SW-5 (0.5')

Lab Sample ID: 880-47616-10

Date Collected: 08/21/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 09:44	08/23/24 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/23/24 09:44	08/23/24 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/23/24 09:44	08/23/24 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/23/24 09:44	08/23/24 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/23/24 09:44	08/23/24 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/23/24 09:44	08/23/24 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/23/24 09:44	08/23/24 17:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/23/24 09:44	08/23/24 17:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-10
Matrix: Solid

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			08/23/24 17:53	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			08/24/24 00:54	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/23/24 10:17	08/24/24 00:54	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/23/24 10:17	08/24/24 00:54	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/23/24 10:17	08/24/24 00:54	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	92		70 - 130				08/23/24 10:17	08/24/24 00:54	1	
o-Terphenyl	78		70 - 130				08/23/24 10:17	08/24/24 00:54	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6.22		5.02		mg/Kg			08/24/24 00:53	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
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	DFBZ1				
		(70-130)	(70-130)				
880-47616-1	CS-1 (0.5')	108	96				
880-47616-1 MS	CS-1 (0.5')	100	104				
880-47616-1 MSD	CS-1 (0.5')	99	105				
880-47616-2	CS-2 (0.5')	108	97				
880-47616-3	CS-3 (0.5')	108	99				
880-47616-4	CS-4 (0.5')	112	98				
880-47616-5	CS-5 (0.5')	107	98				
880-47616-6	SW-1 (0.5')	114	97				
880-47616-7	SW-2 (0.5')	111	98				
880-47616-8	SW-3 (0.5')	109	95				
880-47616-9	SW-4 (0.5')	113	100				
880-47616-10	SW-5 (0.5')	110	96				
LCS 880-89262/1-A	Lab Control Sample	97	104				
LCSD 880-89262/2-A	Lab Control Sample Dup	95	109				
MB 880-89262/5-A	Method Blank	101	95				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-47616-1	CS-1 (0.5')	97	84				
880-47616-1 MS	CS-1 (0.5')	113	90				
880-47616-1 MSD	CS-1 (0.5')	91	87				
880-47616-2	CS-2 (0.5')	92	79				
880-47616-3	CS-3 (0.5')	94	80				
880-47616-4	CS-4 (0.5')	86	74				
880-47616-5	CS-5 (0.5')	95	83				
880-47616-6	SW-1 (0.5')	93	81				
880-47616-7	SW-2 (0.5')	68 S1-	59 S1-				
880-47616-8	SW-3 (0.5')	96	83				
880-47616-9	SW-4 (0.5')	106	92				
880-47616-10	SW-5 (0.5')	92	78				
LCS 880-89272/2-A	Lab Control Sample	97	84				
LCSD 880-89272/3-A	Lab Control Sample Dup	81	86				
MB 880-89272/1-A	Method Blank	117	106				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-89262/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 89243							Prep Batch: 89262		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 14:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 14:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 14:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/23/24 09:44	08/23/24 14:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:44	08/23/24 14:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/23/24 09:44	08/23/24 14:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/23/24 09:44	08/23/24 14:26	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/23/24 09:44	08/23/24 14:26	1

Lab Sample ID: LCS 880-89262/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 89243							Prep Batch: 89262		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1139		mg/Kg		114	70 - 130	
Toluene		0.100	0.1053		mg/Kg		105	70 - 130	
Ethylbenzene		0.100	0.1078		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene		0.200	0.2163		mg/Kg		108	70 - 130	
o-Xylene		0.100	0.1093		mg/Kg		109	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: LCSD 880-89262/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 89243							Prep Batch: 89262			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1202		mg/Kg		120	70 - 130	5	35
Toluene		0.100	0.1105		mg/Kg		110	70 - 130	5	35
Ethylbenzene		0.100	0.1128		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene		0.200	0.2265		mg/Kg		113	70 - 130	5	35
o-Xylene		0.100	0.1142		mg/Kg		114	70 - 130	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	95		70 - 130							
1,4-Difluorobenzene (Surr)	109		70 - 130							

Lab Sample ID: 880-47616-1 MS							Client Sample ID: CS-1 (0.5')		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 89243							Prep Batch: 89262		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1151		mg/Kg		115	70 - 130
Toluene	<0.00200	U	0.100	0.1097		mg/Kg		110	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47616-1 MS
Matrix: Solid
Analysis Batch: 89243

Client Sample ID: CS-1 (0.5')
Prep Type: Total/NA
Prep Batch: 89262

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1143		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2323		mg/Kg		116	70 - 130
o-Xylene	<0.00200	U	0.100	0.1156		mg/Kg		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 880-47616-1 MSD
Matrix: Solid
Analysis Batch: 89243

Client Sample ID: CS-1 (0.5')
Prep Type: Total/NA
Prep Batch: 89262

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1068		mg/Kg		107	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.09691		mg/Kg		97	70 - 130	12	35
Ethylbenzene	<0.00200	U	0.100	0.09838		mg/Kg		98	70 - 130	15	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1968		mg/Kg		98	70 - 130	17	35
o-Xylene	<0.00200	U	0.100	0.09964		mg/Kg		100	70 - 130	15	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

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

Lab Sample ID: MB 880-89272/1-A
Matrix: Solid
Analysis Batch: 89258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89272

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		08/23/24 10:17	08/23/24 21:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 21:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 21:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: LCS 880-89272/2-A
Matrix: Solid
Analysis Batch: 89258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	830.4		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	763.4		mg/Kg		76	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-89272/2-A

Matrix: Solid

Analysis Batch: 89258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89272

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-89272/3-A

Matrix: Solid

Analysis Batch: 89258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 89272

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	838.8		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	822.1		mg/Kg		82	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-47616-1 MS

Matrix: Solid

Analysis Batch: 89258

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 89272

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	998	819.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	847.0		mg/Kg		85	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-47616-1 MSD

Matrix: Solid

Analysis Batch: 89258

Client Sample ID: CS-1 (0.5')

Prep Type: Total/NA

Prep Batch: 89272

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	998	806.4		mg/Kg		81	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	876.3		mg/Kg		88	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	87		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-89263/1-A

Matrix: Solid

Analysis Batch: 89277

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			08/23/24 12:40	1

Lab Sample ID: LCS 880-89263/2-A

Matrix: Solid

Analysis Batch: 89277

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.0		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-89263/3-A

Matrix: Solid

Analysis Batch: 89277

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	230.3		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-47613-A-11-B MS

Matrix: Solid

Analysis Batch: 89277

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	2310	F1	1260	3875	F1	mg/Kg		124	90 - 110

Lab Sample ID: 880-47613-A-11-C MSD

Matrix: Solid

Analysis Batch: 89277

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	2310	F1	1260	3879	F1	mg/Kg		124	90 - 110	0	20

Lab Sample ID: MB 880-89334/1-A

Matrix: Solid

Analysis Batch: 89336

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			08/23/24 23:10	1

Lab Sample ID: LCS 880-89334/2-A

Matrix: Solid

Analysis Batch: 89336

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.3		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-89334/3-A

Matrix: Solid

Analysis Batch: 89336

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	243.8		mg/Kg		98	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-47616-10 MS

Client Sample ID: SW-5 (0.5')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 89336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.22		251	244.1		mg/Kg		95	90 - 110

Lab Sample ID: 880-47616-10 MSD

Client Sample ID: SW-5 (0.5')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 89336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.22		251	242.9		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Carmona Resources

Job ID: 880-47616-1

Project/Site: CTA Sample Com 5H (07.08.24)

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 89243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-1	CS-1 (0.5')	Total/NA	Solid	8021B	89262
880-47616-2	CS-2 (0.5')	Total/NA	Solid	8021B	89262
880-47616-3	CS-3 (0.5')	Total/NA	Solid	8021B	89262
880-47616-4	CS-4 (0.5')	Total/NA	Solid	8021B	89262
880-47616-5	CS-5 (0.5')	Total/NA	Solid	8021B	89262
880-47616-6	SW-1 (0.5')	Total/NA	Solid	8021B	89262
880-47616-7	SW-2 (0.5')	Total/NA	Solid	8021B	89262
880-47616-8	SW-3 (0.5')	Total/NA	Solid	8021B	89262
880-47616-9	SW-4 (0.5')	Total/NA	Solid	8021B	89262
880-47616-10	SW-5 (0.5')	Total/NA	Solid	8021B	89262
MB 880-89262/5-A	Method Blank	Total/NA	Solid	8021B	89262
LCS 880-89262/1-A	Lab Control Sample	Total/NA	Solid	8021B	89262
LCSD 880-89262/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89262
880-47616-1 MS	CS-1 (0.5')	Total/NA	Solid	8021B	89262
880-47616-1 MSD	CS-1 (0.5')	Total/NA	Solid	8021B	89262

Prep Batch: 89262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-1	CS-1 (0.5')	Total/NA	Solid	5035	
880-47616-2	CS-2 (0.5')	Total/NA	Solid	5035	
880-47616-3	CS-3 (0.5')	Total/NA	Solid	5035	
880-47616-4	CS-4 (0.5')	Total/NA	Solid	5035	
880-47616-5	CS-5 (0.5')	Total/NA	Solid	5035	
880-47616-6	SW-1 (0.5')	Total/NA	Solid	5035	
880-47616-7	SW-2 (0.5')	Total/NA	Solid	5035	
880-47616-8	SW-3 (0.5')	Total/NA	Solid	5035	
880-47616-9	SW-4 (0.5')	Total/NA	Solid	5035	
880-47616-10	SW-5 (0.5')	Total/NA	Solid	5035	
MB 880-89262/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-89262/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-89262/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47616-1 MS	CS-1 (0.5')	Total/NA	Solid	5035	
880-47616-1 MSD	CS-1 (0.5')	Total/NA	Solid	5035	

Analysis Batch: 89413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-1	CS-1 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-2	CS-2 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-3	CS-3 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-4	CS-4 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-5	CS-5 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-6	SW-1 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-7	SW-2 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-8	SW-3 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-9	SW-4 (0.5')	Total/NA	Solid	Total BTEX	
880-47616-10	SW-5 (0.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources

Job ID: 880-47616-1

Project/Site: CTA Sample Com 5H (07.08.24)

SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 89258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-1	CS-1 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-2	CS-2 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-3	CS-3 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-4	CS-4 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-5	CS-5 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-6	SW-1 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-7	SW-2 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-8	SW-3 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-9	SW-4 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-10	SW-5 (0.5')	Total/NA	Solid	8015B NM	89272
MB 880-89272/1-A	Method Blank	Total/NA	Solid	8015B NM	89272
LCS 880-89272/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89272
LCSD 880-89272/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89272
880-47616-1 MS	CS-1 (0.5')	Total/NA	Solid	8015B NM	89272
880-47616-1 MSD	CS-1 (0.5')	Total/NA	Solid	8015B NM	89272

Prep Batch: 89272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-1	CS-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-2	CS-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-3	CS-3 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-4	CS-4 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-5	CS-5 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-6	SW-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-7	SW-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-8	SW-3 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-9	SW-4 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-10	SW-5 (0.5')	Total/NA	Solid	8015NM Prep	
MB 880-89272/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89272/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89272/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47616-1 MS	CS-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-47616-1 MSD	CS-1 (0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 89408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-1	CS-1 (0.5')	Total/NA	Solid	8015 NM	
880-47616-2	CS-2 (0.5')	Total/NA	Solid	8015 NM	
880-47616-3	CS-3 (0.5')	Total/NA	Solid	8015 NM	
880-47616-4	CS-4 (0.5')	Total/NA	Solid	8015 NM	
880-47616-5	CS-5 (0.5')	Total/NA	Solid	8015 NM	
880-47616-6	SW-1 (0.5')	Total/NA	Solid	8015 NM	
880-47616-7	SW-2 (0.5')	Total/NA	Solid	8015 NM	
880-47616-8	SW-3 (0.5')	Total/NA	Solid	8015 NM	
880-47616-9	SW-4 (0.5')	Total/NA	Solid	8015 NM	
880-47616-10	SW-5 (0.5')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 89263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-1	CS-1 (0.5')	Soluble	Solid	DI Leach	
880-47616-2	CS-2 (0.5')	Soluble	Solid	DI Leach	
880-47616-3	CS-3 (0.5')	Soluble	Solid	DI Leach	
880-47616-4	CS-4 (0.5')	Soluble	Solid	DI Leach	
880-47616-5	CS-5 (0.5')	Soluble	Solid	DI Leach	
MB 880-89263/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89263/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89263/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47613-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47613-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 89277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-1	CS-1 (0.5')	Soluble	Solid	300.0	89263
880-47616-2	CS-2 (0.5')	Soluble	Solid	300.0	89263
880-47616-3	CS-3 (0.5')	Soluble	Solid	300.0	89263
880-47616-4	CS-4 (0.5')	Soluble	Solid	300.0	89263
880-47616-5	CS-5 (0.5')	Soluble	Solid	300.0	89263
MB 880-89263/1-A	Method Blank	Soluble	Solid	300.0	89263
LCS 880-89263/2-A	Lab Control Sample	Soluble	Solid	300.0	89263
LCSD 880-89263/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89263
880-47613-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	89263
880-47613-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	89263

Leach Batch: 89334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-6	SW-1 (0.5')	Soluble	Solid	DI Leach	
880-47616-7	SW-2 (0.5')	Soluble	Solid	DI Leach	
880-47616-8	SW-3 (0.5')	Soluble	Solid	DI Leach	
880-47616-9	SW-4 (0.5')	Soluble	Solid	DI Leach	
880-47616-10	SW-5 (0.5')	Soluble	Solid	DI Leach	
MB 880-89334/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89334/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89334/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47616-10 MS	SW-5 (0.5')	Soluble	Solid	DI Leach	
880-47616-10 MSD	SW-5 (0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 89336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47616-6	SW-1 (0.5')	Soluble	Solid	300.0	89334
880-47616-7	SW-2 (0.5')	Soluble	Solid	300.0	89334
880-47616-8	SW-3 (0.5')	Soluble	Solid	300.0	89334
880-47616-9	SW-4 (0.5')	Soluble	Solid	300.0	89334
880-47616-10	SW-5 (0.5')	Soluble	Solid	300.0	89334
MB 880-89334/1-A	Method Blank	Soluble	Solid	300.0	89334
LCS 880-89334/2-A	Lab Control Sample	Soluble	Solid	300.0	89334
LCSD 880-89334/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89334
880-47616-10 MS	SW-5 (0.5')	Soluble	Solid	300.0	89334
880-47616-10 MSD	SW-5 (0.5')	Soluble	Solid	300.0	89334

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Lab Chronicle

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/23/24 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/23/24 21:58	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89263	08/23/24 09:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89277	08/23/24 15:55	CH	EET MID

Client Sample ID: CS-2 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 15:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 15:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/23/24 22:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/23/24 22:46	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89263	08/23/24 09:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89277	08/23/24 16:02	CH	EET MID

Client Sample ID: CS-3 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 15:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/23/24 23:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/23/24 23:02	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89263	08/23/24 09:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89277	08/23/24 16:10	CH	EET MID

Client Sample ID: CS-4 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-4
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			5.01 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 15:49	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-4
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			89408	08/23/24 23:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/23/24 23:18	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89263	08/23/24 09:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89277	08/23/24 16:17	CH	EET MID

Client Sample ID: CS-5 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-5
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			4.97 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 16:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 16:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/23/24 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/23/24 23:34	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	89263	08/23/24 09:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89277	08/23/24 16:25	CH	EET MID

Client Sample ID: SW-1 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 16:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/23/24 23:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/23/24 23:50	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89334	08/23/24 14:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89336	08/24/24 00:29	CH	EET MID

Client Sample ID: SW-2 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-7
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	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 16:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 16:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/24/24 00:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/24/24 00:06	TKC	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	89334	08/23/24 14:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89336	08/24/24 00:35	CH	EET MID

Client Sample ID: SW-3 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 17:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 17:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/24/24 00:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/24/24 00:21	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89334	08/23/24 14:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89336	08/24/24 00:41	CH	EET MID

Client Sample ID: SW-4 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 17:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 17:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/24/24 00:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/24/24 00:38	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	89334	08/23/24 14:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89336	08/24/24 00:47	CH	EET MID

Client Sample ID: SW-5 (0.5')
Date Collected: 08/21/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47616-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	89262	08/23/24 09:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89243	08/23/24 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89413	08/23/24 17:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			89408	08/24/24 00:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/24/24 00:54	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89334	08/23/24 14:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89336	08/24/24 00:53	CH	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
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: CTA Sample Com 5H (07.08.24)

Job ID: 880-47616-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47616-1	CS-1 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-2	CS-2 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-3	CS-3 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-4	CS-4 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-5	CS-5 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-6	SW-1 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-7	SW-2 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-8	SW-3 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-9	SW-4 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13
880-47616-10	SW-5 (0.5')	Solid	08/21/24 00:00	08/23/24 09:13

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Chain of Custody



880-47616 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			

Project Name: CTA State Com 5H (07.08.24)		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number: 2492		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Due Date: 24 HR		Parameters		BTEX 8021B		TPH 8015M (GRO + DRO + MRO)		Chloride 300.0						None: NO		DI Water: H ₂ O	
Project Location: Eddy County, New Mexico		JR				Temp Blank: Yes No		Thermometer ID: Yes No		Wet Ice: Yes No								Cool: Cool		MeOH: Me	
Sampler's Name: PO #:		Temp Blank: Yes No		Thermometer ID: Yes No		Correction Factor: Yes No		Temperature Reading: Yes No		Corrected Temperature: Yes No								HCL: HC		HNO ₃ : HN	
Received Intact: Yes No		Cooler Custody Seals: Yes No		Sample Custody Seals: Yes No		Total Containers: Yes No												H ₂ SO ₄ : H ₂		NaOH: Na	
																		H ₃ PO ₄ : HP			
																		NaHSO ₄ : NABIS			
																		Na ₂ S ₂ O ₃ : NaSO ₃			
																		Zn Acetate+NaOH: Zn			
																		NaOH+Ascorbic Acid: SAPC			

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont
CS-1 (0.5')	8/21/2024		X		C	1
CS-2 (0.5')	8/21/2024		X		C	1
CS-3 (0.5')	8/21/2024		X		C	1
CS-4 (0.5')	8/21/2024		X		C	1
CS-5 (0.5')	8/21/2024		X		C	1
SW-1 (0.5')	8/21/2024		X		C	1
SW-2 (0.5')	8/21/2024		X		C	1
SW-3 (0.5')	8/21/2024		X		C	1
SW-4 (0.5')	8/21/2024		X		C	1
SW-5 (0.5')	8/21/2024		X		C	1

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>Conner Moehring</i>	8/23/24 09:13	<i>[Signature]</i>	8/23/24 9:13 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-47616-1
SDG Number: Eddy County, New Mexico

Login Number: 47616
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 8/26/2024 12:38:18 PM

JOB DESCRIPTION

CTA Sample Com 5H (07.08.24)
Eddy County, New Mexico

JOB NUMBER

880-47615-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

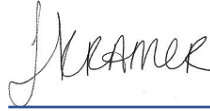
Eurofins Midland

Job Notes

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

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

Authorization



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8/26/2024 12:38:18 PM

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

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Laboratory Job ID: 880-47615-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
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
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1

Job ID: 880-47615-1

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Job Narrative 880-47615-1

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

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

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

Receipt

The sample was received on 8/23/2024 9:13 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.8°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: PB Materials Pit Sample (880-47615-1).

GC VOA

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

Diesel Range Organics

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-89263 and analytical batch 880-89277 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

Client Sample ID: PB Materials Pit Sample

Lab Sample ID: 880-47615-1

Date Collected: 08/22/24 00:00

Matrix: Solid

Date Received: 08/23/24 09:13

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		08/23/24 10:24	08/23/24 18:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/24 10:24	08/23/24 18:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/24 10:24	08/23/24 18:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/23/24 10:24	08/23/24 18:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/24 10:24	08/23/24 18:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/23/24 10:24	08/23/24 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/23/24 10:24	08/23/24 18:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/23/24 10:24	08/23/24 18:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/23/24 18:58	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			08/24/24 01:25	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		08/23/24 10:17	08/24/24 01:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/24/24 01:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/24/24 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/23/24 10:17	08/24/24 01:25	1
o-Terphenyl	80		70 - 130	08/23/24 10:17	08/24/24 01:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/23/24 15:47	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
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)
880-47612-A-6-B MS	Matrix Spike	98	93
880-47612-A-6-C MSD	Matrix Spike Duplicate	99	95
880-47615-1	PB Materials Pit Sample	105	94
LCS 880-89252/1-A	Lab Control Sample	98	95
LCSD 880-89252/2-A	Lab Control Sample Dup	98	97
MB 880-89252/5-A	Method Blank	100	87
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-47615-1	PB Materials Pit Sample	93	80
880-47616-A-1-F MS	Matrix Spike	113	90
880-47616-A-1-G MSD	Matrix Spike Duplicate	91	87
LCS 880-89272/2-A	Lab Control Sample	97	84
LCSD 880-89272/3-A	Lab Control Sample Dup	81	86
MB 880-89272/1-A	Method Blank	117	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-89252/5-A

Matrix: Solid

Analysis Batch: 89245

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 89252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:03	08/23/24 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:03	08/23/24 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:03	08/23/24 11:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/23/24 09:03	08/23/24 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/24 09:03	08/23/24 11:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/23/24 09:03	08/23/24 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/23/24 09:03	08/23/24 11:53	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/23/24 09:03	08/23/24 11:53	1

Lab Sample ID: LCS 880-89252/1-A

Matrix: Solid

Analysis Batch: 89245

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09432		mg/Kg		94	70 - 130
Toluene	0.100	0.09065		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08911		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1898		mg/Kg		95	70 - 130
o-Xylene	0.100	0.09593		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-89252/2-A

Matrix: Solid

Analysis Batch: 89245

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 89252

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1045		mg/Kg		104	70 - 130	10	35
Toluene	0.100	0.09986		mg/Kg		100	70 - 130	10	35
Ethylbenzene	0.100	0.09883		mg/Kg		99	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2091		mg/Kg		105	70 - 130	10	35
o-Xylene	0.100	0.1047		mg/Kg		105	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-47612-A-6-B MS

Matrix: Solid

Analysis Batch: 89245

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 89252

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09654		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.09247		mg/Kg		92	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47612-A-6-B MS
Matrix: Solid
Analysis Batch: 89245

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 89252

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09120		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1930		mg/Kg		97	70 - 130
o-Xylene	<0.00200	U	0.100	0.09681		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	93		70 - 130						

Lab Sample ID: 880-47612-A-6-C MSD
Matrix: Solid
Analysis Batch: 89245

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 89252

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1014		mg/Kg		101	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.09627		mg/Kg		96	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.09495		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2015		mg/Kg		101	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.1011		mg/Kg		101	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 - 130								

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

Lab Sample ID: MB 880-89272/1-A
Matrix: Solid
Analysis Batch: 89258

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89272

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		08/23/24 10:17	08/23/24 21:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 21:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/24 10:17	08/23/24 21:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: LCS 880-89272/2-A
Matrix: Solid
Analysis Batch: 89258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	830.4		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	763.4		mg/Kg		76	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-89272/2-A
Matrix: Solid
Analysis Batch: 89258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89272

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-89272/3-A
Matrix: Solid
Analysis Batch: 89258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89272

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	838.8		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	822.1		mg/Kg		82	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-47616-A-1-F MS
Matrix: Solid
Analysis Batch: 89258

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 89272

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	998	819.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	847.0		mg/Kg		85	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-47616-A-1-G MSD
Matrix: Solid
Analysis Batch: 89258

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 89272

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	998	806.4		mg/Kg		81	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	876.3		mg/Kg		88	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	87		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-89263/1-A Matrix: Solid Analysis Batch: 89277										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			08/23/24 12:40	1		

Lab Sample ID: LCS 880-89263/2-A Matrix: Solid Analysis Batch: 89277										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	229.0		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-89263/3-A Matrix: Solid Analysis Batch: 89277										Client Sample ID: Lab Control Sample Dup Prep Type: Soluble	
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	230.3		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-47613-A-11-B MS Matrix: Solid Analysis Batch: 89277										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	2310	F1	1260	3875	F1	mg/Kg		124	90 - 110		

Lab Sample ID: 880-47613-A-11-C MSD Matrix: Solid Analysis Batch: 89277										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	2310	F1	1260	3879	F1	mg/Kg		124	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 89245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47615-1	PB Materials Pit Sample	Total/NA	Solid	8021B	89252
MB 880-89252/5-A	Method Blank	Total/NA	Solid	8021B	89252
LCS 880-89252/1-A	Lab Control Sample	Total/NA	Solid	8021B	89252
LCSD 880-89252/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89252
880-47612-A-6-B MS	Matrix Spike	Total/NA	Solid	8021B	89252
880-47612-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	89252

Prep Batch: 89252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47615-1	PB Materials Pit Sample	Total/NA	Solid	5035	
MB 880-89252/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-89252/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-89252/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47612-A-6-B MS	Matrix Spike	Total/NA	Solid	5035	
880-47612-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 89418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47615-1	PB Materials Pit Sample	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 89258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47615-1	PB Materials Pit Sample	Total/NA	Solid	8015B NM	89272
MB 880-89272/1-A	Method Blank	Total/NA	Solid	8015B NM	89272
LCS 880-89272/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89272
LCSD 880-89272/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89272
880-47616-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	89272
880-47616-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	89272

Prep Batch: 89272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47615-1	PB Materials Pit Sample	Total/NA	Solid	8015NM Prep	
MB 880-89272/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89272/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89272/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47616-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-47616-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 89409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47615-1	PB Materials Pit Sample	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 89263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47615-1	PB Materials Pit Sample	Soluble	Solid	DI Leach	
MB 880-89263/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89263/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89263/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 89263 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47613-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47613-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 89277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47615-1	PB Materials Pit Sample	Soluble	Solid	300.0	89263
MB 880-89263/1-A	Method Blank	Soluble	Solid	300.0	89263
LCS 880-89263/2-A	Lab Control Sample	Soluble	Solid	300.0	89263
LCSD 880-89263/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89263
880-47613-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	89263
880-47613-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	89263

Lab Chronicle

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

Client Sample ID: PB Materials Pit Sample
Date Collected: 08/22/24 00:00
Date Received: 08/23/24 09:13

Lab Sample ID: 880-47615-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	89252	08/23/24 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	89245	08/23/24 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			89418	08/23/24 18:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			89409	08/24/24 01:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89272	08/23/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89258	08/24/24 01:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89263	08/23/24 09:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89277	08/23/24 15:47	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: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
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: CTA Sample Com 5H (07.08.24)

Job ID: 880-47615-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47615-1	PB Materials Pit Sample	Solid	08/22/24 00:00	08/23/24 09:13

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



17615 Chain of Custody

Page 1 of 1

Chain of Custody

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

[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>[Signature]</i>	8/23/2009 9:13	<i>[Signature]</i>	8/23/09

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-47615-1
SDG Number: Eddy County, New Mexico

Login Number: 47615
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	

District I
1625 N. French Dr., Hobbs, NM 88240
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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 382976

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	382976
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420734164
Incident Name	NAPP2420734164 CTA STATE COM 005H @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2203449986] CTA ST Com 5H Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CTA State Com 005H
Date Release Discovered	07/08/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
Did this release result in a fire or is the result of a fire	Yes
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: Equipment Failure Separator Crude Oil Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	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 382976

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	382976
	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)	More info needed to determine if this will be treated as 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: (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: 07/25/2024
--	---

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 382976

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	382976
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	8
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2900
GRO+DRO	(EPA SW-846 Method 8015M)	2900
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

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	08/20/2024
On what date will (or did) the final sampling or liner inspection occur	08/21/2024
On what date will (or was) the remediation complete(d)	08/22/2024
What is the estimated surface area (in square feet) that will be reclaimed	1000
What is the estimated volume (in cubic yards) that will be reclaimed	40
What is the estimated surface area (in square feet) that will be remediated	1000
What is the estimated volume (in cubic yards) that will be remediated	40

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 382976

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	382976
	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	CTA ST Com 5H Battery [APP2203449986]
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: 09/12/2024
<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 382976

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 382976
	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 382976

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	382976
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	374948
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/21/2024
What was the (estimated) number of samples that were to be gathered	11
What was the sampling surface area in square feet	1050

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	1000
What was the total volume (cubic yards) remediated	40
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	1000
What was the total volume (in cubic yards) reclaimed	40
Summarize any additional remediation activities not included by answers (above)	na

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: 09/12/2024
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QUESTIONS, Page 7

Action 382976

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 382976
	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 382976

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	382976
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	9/19/2024
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.	9/19/2024