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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: __ _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

L48 Spill Volume Estimate Form - Fill In Gray Cells

Facility Name & Well Number(s):	graham cracker 16-7					Release Discovery Date & Time:	5/13/23 at 3pm		
Provide any known details about the event:	there is a hole in one of the flowlines to the well					Primary Cause (dropdown):	Mechanical Damage/Failure	Secondary Cause (dropdown):	
			Was the Release to Soil / Caliche (dropdown):		Release On/Off Pad (dropdown):	Recovered Volume (bbl.) (if available, not included in volume calculations)	Release Type (dropdown):		Method of Determination (dropdown):
BU:	Permian	Asset Area:	DBW - Fine Sands	Yes	Off-Pad		Oil Mixture		Field Measurement
Known Volume (dropdown):	No								
Known Area (dropdown):	No								

Spill Calculation - On-Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated *Pool* Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	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.)
Rectangle A	20	20	0.3	400.00	1.48	0.00	1.48	50%	0.74	0.74
Rectangle B	0	0	0.0	0.00	0.00	0.00	0.00		0.00	0.00
Rectangle C	0	0	0.0	0.00	0.00	0.00	0.00		0.00	0.00
Rectangle D	0	0	0.0	0.00	0.00	0.00	0.00		0.00	0.00
Rectangle E				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00		0.00	0.00
Total Surface Pool Volume Released, Release to Soil/Caliche:							1.4849		0.7424	0.7424

CARMONA RESOURCES

SITE INFORMATION

Closure Report
Graham Cracker 16 State 007H (05.13.23)
Incident #: NAPP2314538444
Eddy County, New Mexico
Unit B Sec 16 T26S R28E
32.0488°, -104.0898°

Produced Water Release
Point of Release: Flowline leak due to corrosion.
Release Date: 05.13.2023
Volume Released: 0.75 Barrels of Crude Oil and 0.75 Barrels of Produced Water
Volume Recovered: 0.75 Barrels of Crude Oil and 0 Barrels of Produced Water

CARMONA RESOURCES

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

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

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

CARMONA RESOURCES

TABLE OF CONTENTS

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

CARMONA RESOURCES

November 9, 2023

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

Re: Closure Report
Graham Cracker 16 State 007H (05.13.23)
Concho Operating, LLC
Site Location: Unit B, S16, T26S, R28E
(Lat 32.0488º, Long -104.0898º)
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 Graham Cracker 16 State 007H. The site is located at 32.0488, -104.0898 within Unit B, S16, T26S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 13, 2023, caused by a flow line leak due to corrosion. It resulted in approximately point seven five (0.75) barrels of crude oil being released, with point seven five (0.75) barrels of crude oil recovered, as well as point seven five (0.75) barrels of produced water being released, with zero (0) barrels of produced water recovered. The impacted area occurred in the pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 0.85 miles southwest of the site in S18, T26S, R28E and was drilled in 1998. The well has a reported depth to groundwater of 16.35 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

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

CARMONA RESOURCES

4.0 Site Assessment Activities

Initial Assessment

On September 5, 2023, Carmona Resources, LLC performed site assessment activities to evaluate the soil impacted by the release. A total of three (3) sample points (S-1 through S-3) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 4' bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. 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.

Vertical Delineation

Vertical delineation was achieved for all sample points. Refer to Table 1.

Horizontal Delineation

Horizontal delineation was achieved for the areas of H-3 and H-4. The areas of H-1 and H-2 showed elevated concentrations of TPH ranging from 103 to 341 mg/kg. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on October 27, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-3 was excavated to a depth of 1.5' bgs. A total of four (4) confirmation floor samples were collected (CS-1 through CS-4), and five (5) sidewall samples (SW-1 through SW-5) were collected every 200 square feet to ensure the proper removal of the contaminated soils. Sidewalls were extended in the areas of H-1 and H-2 until delineation. 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. Refer to Table 2.

6.0 Reclamation Activities

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The backfilled areas were seeded on November 3, 2023. Double the recommended amount of seed mixture was dispersed via hand broadcasting method, and surrounding topsoil was raked onto the seed to aid the vegetation process. The seed mixture was the SLO sandy loam (SL), per SLO criteria. See Figure 5 for the reclamation area and Appendix F for reclamation criteria.

Approximately 40 cubic yards of material were excavated and transported offsite for proper disposal.

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

CARMONA RESOURCES

7.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and COG formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

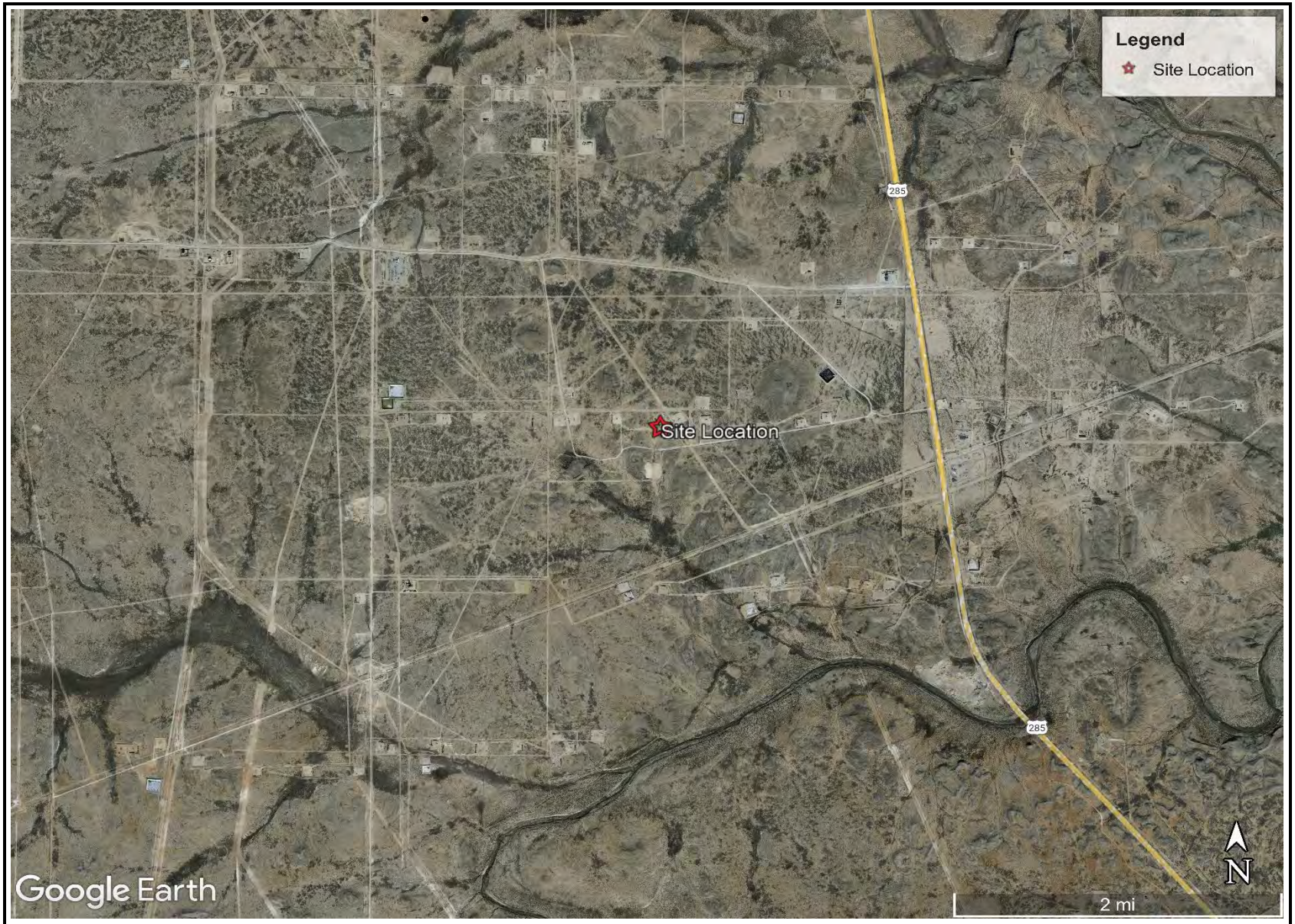
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

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

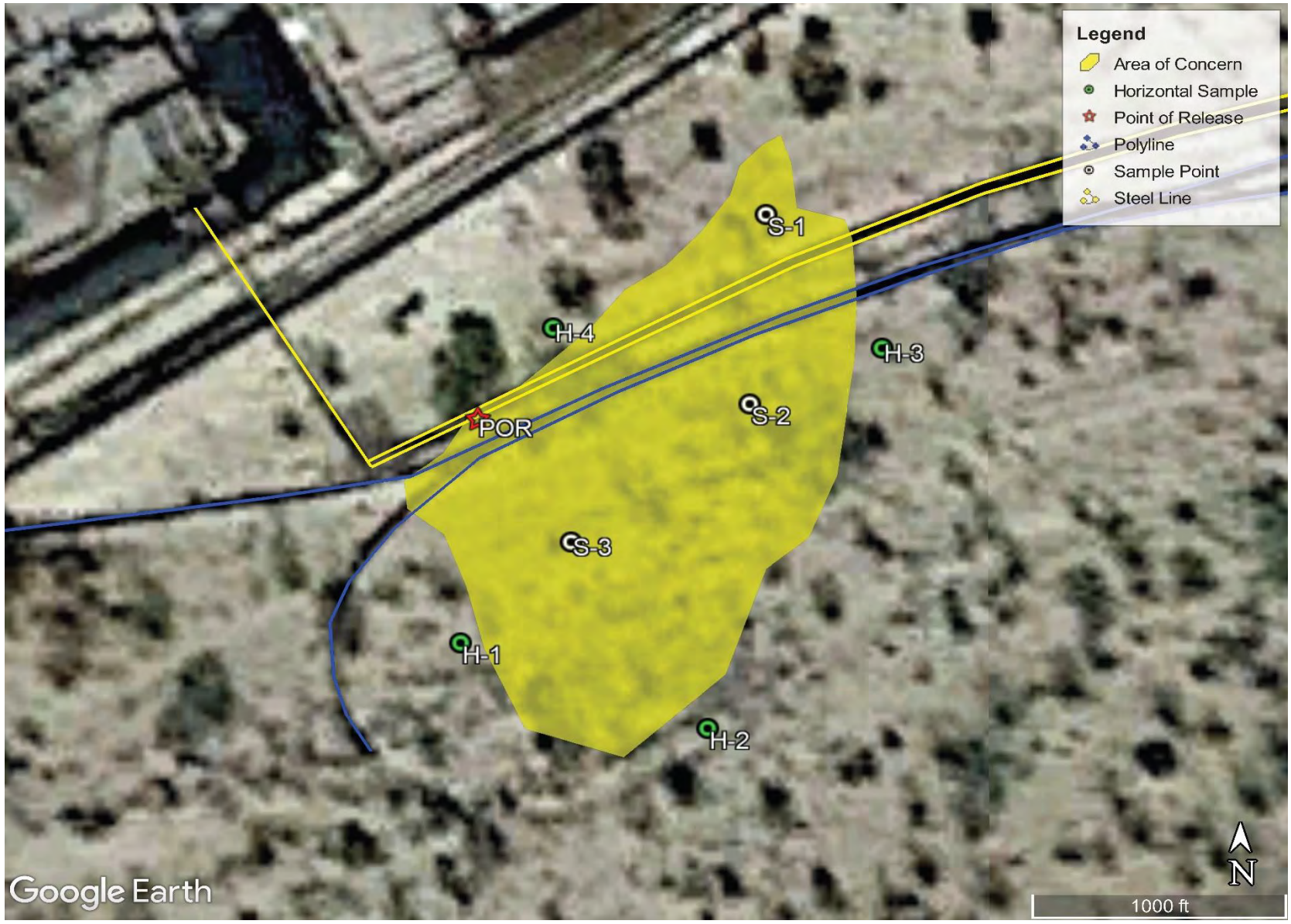
FIGURES

CARMONA RESOURCES



OVERVIEW MAP COG OPERATING, LLC GRAHAM CRACKER 16 STATE 007H (05.13.23) EDDY COUNTY, NEW MEXICO 32.0488°, -104.0898°	CARMONA RESOURCES	FIGURE 1

TOPOGRAPHIC MAP COG OPERATING, LLC GRAHAM CRACKER 16 STATE 007H (05.13.23) EDDY COUNTY, NEW MEXICO 32.0488°, -104.0898°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COG OPERATING, LLC GRAHAM CRACKER 16 STATE 007H (05.13.23) EDDY COUNTY, NEW MEXICO 32.0488°, -104.0898°	CARMONA RESOURCES	FIGURE 3

EXCAVATION DEPTH MAP COG OPERATING, LLC GRAHAM CRACKER 16 STATE 007H (05.13.23) EDDY COUNTY, NEW MEXICO 32.0488°, -104.0898°	CARMONA RESOURCES	FIGURE 4

RECLAMATION MAP COG OPERATING, LLC GRAHAM CRACKER 16 STATE 007H (05.13.23) EDDY COUNTY, NEW MEXICO 32.0488°, -104.0898°	CARMONA RESOURCES	FIGURE 5

APPENDIX A

CARMONA RESOURCES

Table 1
COG Operating, LLC
Graham Cracker 16 State 007H (05.13.23)
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	9/5/2023	0-1	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	88.2
	9/5/2023	1.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	127
	9/5/2023	2.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	136
	9/5/2023	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	152
	9/5/2023	4.0	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	184
S-2	9/5/2023	0-1	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	45.5
	9/5/2023	1.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	92.8
	9/5/2023	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	192
	9/5/2023	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	233
S-3	9/5/2023	0-1	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**792**
	9/5/2023	1.5	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00403	<0.00403	114
	9/5/2023	2.0	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	116
	9/5/2023	3.0	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	70.6
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

Removed

Table 1
COG Operating, LLC
Graham Cracker 16 State 007H (05.13.23)
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						
H-1	9/5/2023	0-0.5	<49.9	**228**	**113**	**341**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	45.4
H-2	9/5/2023	0-0.5	<50.3	**103**	<50.3	**103**	0.00322	<0.00198	0.00330	<0.00396	0.00652	48.9
H-3	9/5/2023	0-0.5	<50.5	76.6	<50.5	76.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	60.6
H-4	9/5/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	27.2
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

(H) Horizontal Sample

Removed

Table 2
COG Operating, LLC
Graham Cracker 16 State 007H (05.13.23)
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	10/31/2023	1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	54.1
CS-2	10/31/2023	1.5	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	55.0
CS-3	10/31/2023	1.5	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	47.6
CS-4	10/31/2023	1.5	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	84.1
SW-1	10/31/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	44.3
SW-2	10/31/2023	1.5	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	52.3
SW-3	10/31/2023	1.5	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	58.1
SW-4	10/31/2023	1.5	<50.4	<50.4	<50.4	<50.4	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	52.7
SW-5	10/31/2023	1.5	<50.5	<50.5	<50.5	<50.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	70.1
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

Concho Operating, LLC

Photograph No. 1

Facility: Graham Cracker 16 State 007H (05.13.23)

County: Eddy County, New Mexico

Description:
View Northwest area of CS-1 through CS-5.

Photograph No. 2

Facility: Graham Cracker 16 State 007H (05.13.23)

County: Eddy County, New Mexico

Description:
View Southeast area of CS-1 through CS-5.

Photograph No. 3

Facility: Graham Cracker 16 State 007H (05.13.23)

County: Eddy County, New Mexico

Description:
View Southeast, hand broadcast of seed mixture.

PHOTOGRAPHIC LOG

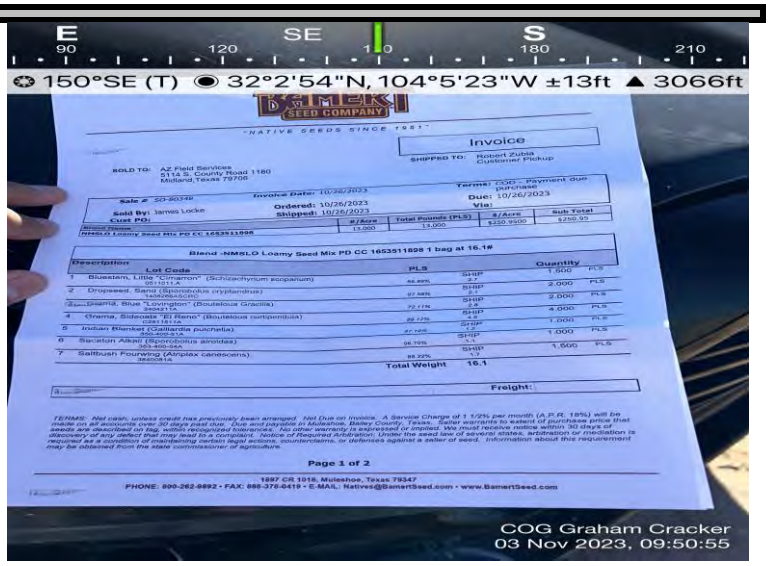
Concho Operating, LLC

Photograph No. 4

Facility: Graham Cracker 16 State 007H (05.13.23)

County: Eddy County, New Mexico

Description:
Seed Mixture.



APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 05/25/2023

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: _____

L48 Spill Volume Estimate Form - Fill In Gray Cells

Facility Name & Well Number(s):	graham cracker 16-7				Release Discovery Date & Time:	5/13/23 at 3pm			
Provide any known details about the event:	there is a hole in one of the flowlines to the well				Primary Cause (dropdown):	Mechanical Damage/Failure	Secondary Cause (dropdown):		
			Was the Release to Soil / Caliche (dropdown):		Release On/Off Pad (dropdown):	Recovered Volume (bbl.) (if available, not included in volume calculations)	Release Type (dropdown):		Method of Determination (dropdown):
BU:	Permian	Asset Area:	DBW - Fine Sands	Yes		Off-Pad		Oil Mixture	Field Measurement
Known Volume (dropdown):	No								
Known Area (dropdown):	No								

Spill Calculation - On-Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated *Pool* Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	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.)
Rectangle A	20	20	0.3	400.00	1.48	0.00	1.48	50%	0.74	0.74
Rectangle B	0	0	0.0	0.00	0.00	0.00	0.00		0.00	0.00
Rectangle C	0	0	0.0	0.00	0.00	0.00	0.00		0.00	0.00
Rectangle D	0	0	0.0	0.00	0.00	0.00	0.00		0.00	0.00
Rectangle E				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00		0.00	0.00
Total Surface Pool Volume Released, Release to Soil/Caliche:							1.4849		0.7424	0.7424

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

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 220642
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	5/25/2023

From: Wells, Shelly, EMNRD
Sent: Friday, October 27, 2023 4:26 PM
To: Conner Moehring
Cc: Mike Carmona; Devin Dominguez; Clint Merritt; Hamlet, Robert, EMNRD; Wells, Shelly, EMNRD
Subject: RE: [EXTERNAL] COG - Graham Cracker 16 State 007H (05.13.23) - Sampling Notification

Good afternoon Conner,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Friday, October 27, 2023 3:00 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>; Clint Merritt <MerrittC@carmonaresources.com>
Subject: [EXTERNAL] COG - Graham Cracker 16 State 007H (05.13.23) - Sampling Notification

Good Afternoon,

This email is a notification for confirmation sampling for the COG – Graham Cracker 16 State 007H (05.13.23). Sampling is scheduled to begin on Tuesday, October 31st, around 3:00 p.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples.

nAPP2314538444

Please call if you have any questions.

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

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

COG Operating

Legend

- 0.50 Mile Radius
- 0.85 Miles
- 1.38 Miles
- 1.43 Miles
- 1.44 Miles
- 1.48 Miles
- Graham Cracker 16 State 007H (05.13.2023)
- NMSEO Water Well
- USGS Water Well

Graham Cracker 16 State 007H (05.13.2023)

120' - Drilled 1960

175' - Drilled 2017

120' - Drilled 1960

16.35' - Drilled 1998

120' - Drilled 1961

N

4000 ft

Medium Karst

COG Operating

Legend

- Graham Cracker 16 State 007H (05.13.2023)
- High
- Medium

Graham Cracker 16 State 007H (05.13.2023)

Google Earth

N

1 mi

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S

Groundwater | New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320230104060601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320230104060601 26S.28E.18.33111

Eddy County, New Mexico
Latitude 32°02'30", Longitude 104°06'06" NAD27
Land-surface elevation 3,070 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) 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 measur
1981-05-01		D	62610		3050.88	NGVD29	1	Z		
1981-05-01		D	62611		3052.48	NAVD88	1	Z		
1981-05-01		D	72019	17.52			1	Z		
1983-01-25		D	62610		3052.15	NGVD29	1	Z		
1983-01-25		D	62611		3053.75	NAVD88	1	Z		
1983-01-25		D	72019	16.25			1	Z		
1987-10-13		D	62610		3053.27	NGVD29	1	Z		
1987-10-13		D	62611		3054.87	NAVD88	1	Z		
1987-10-13		D	72019	15.13			1	Z		
1992-11-03		D	62610		3050.77	NGVD29	1	S		
1992-11-03		D	62611		3052.37	NAVD88	1	S		
1992-11-03		D	72019	17.63			1	S		
1998-01-22		D	62610		3052.05	NGVD29	1	S		
1998-01-22		D	62611		3053.65	NAVD88	1	S		
1998-01-22		D	72019	16.35			1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S

Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 04022 POD1	4	4	2	15	26S	28E	588082	3545647

Driller License:	1184	**Driller Company:**	WEST TEXAS WATER WELL SERVICE		
Driller Name:	KEITH, RONNY				
Drill Start Date:	05/01/2017	**Drill Finish Date:**	05/05/2017	**Plug Date:**	
Log File Date:	06/05/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	1 GPM
Casing Size:	12.25	**Depth Well:**	220 feet	**Depth Water:**	175 feet

Water Bearing Stratifications:	Top	Bottom	Description
	175	180	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	160	220

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02160 S5	1	1	1	14	26S	28E	588225	3546237*

Driller License: **Driller Company:**

Driller Name: HEMLER

Drill Start Date: **Drill Finish Date:** 09/01/1960 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 300 feet **Depth Water:** 120 feet

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02160 S7	3	3	1	22	26S	28E	586638	3543998*

Driller License: **Driller Company:**

Driller Name: HEMLER

Drill Start Date: **Drill Finish Date:** 01/01/1961 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 300 feet **Depth Water:** 120 feet

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02160 S6	3	3	1	14	26S	28E	588232	3545635*

Driller License:		**Driller Company:**			
Driller Name:	HEMLER				
Drill Start Date:		**Drill Finish Date:**	11/01/1960	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	300 feet	**Depth Water:**	120 feet

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02479	CUB	ED		4	4	10	26S	28E	587909	3546534*	2006	200		
C 02480	CUB	ED		4	4	10	26S	28E	587909	3546534*	2006	150		
C 04022 POD1	CUB	ED	4	4	2	15	26S	28E	588082	3545647	2224	220	175	45
C 02160 S5	CUB	ED	1	1	1	14	26S	28E	588225	3546237*	2296	300	120	180
C 02160 S7	CUB	ED	3	3	1	22	26S	28E	586638	3543998*	2319	300	120	180
C 02160 S6	CUB	ED	3	3	1	14	26S	28E	588232	3545635*	2372	300	120	180
C 02481	CUB	ED		1	1	14	26S	28E	588326	3546138*	2397	200		
C 02160 S3	CUB	ED	2	2	1	14	26S	28E	588834	3546241*	2905	300	120	180
C 02160 S4	CUB	ED	2	2	1	14	26S	28E	588834	3546241*	2905	300	120	180
C 02160 S	CUB	ED	1	1	2	14	26S	28E	589043	3546244*	3114	300	120	180
C 02160 S2	CUB	ED	1	1	2	14	26S	28E	589043	3546244*	3114	300	120	180
C 02477	CUB	ED		1	1	03	26S	28E	586687	3549347*	3230	150		
C 02160	CUB	ED	4	1	2	14	26S	28E	589243	3546044*	3318	300	120	180
C 02924	C	ED	1	3	2	11	26S	28E	589032	3547451*	3343			
C 02478	CUB	ED		2	1	05	26S	28E	583848	3549325*	3748	100		
C 04022 POD2	CUB	ED	2	2	2	27	26S	28E	588106	3543082	3808	250	145	105

Average Depth to Water: **128 feet**

Minimum Depth: **120 feet**

Maximum Depth: **175 feet**

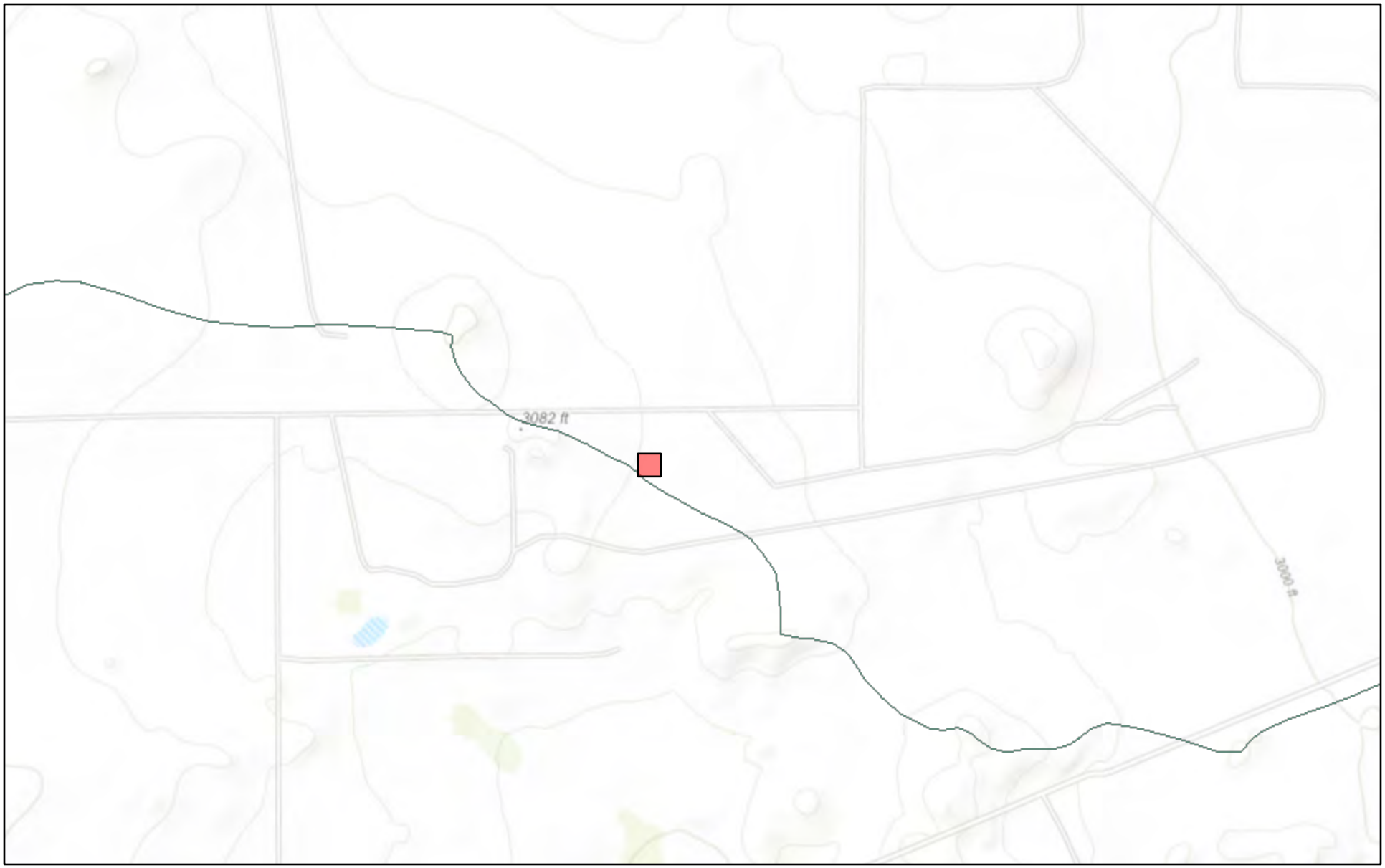
Record Count: 16

UTMNAD83 Radius Search (in meters):

Easting (X): 585929 **Northing (Y):** 3546207 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

New Mexico NFHL Data



August 16, 2023

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

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

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APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/13/2023 12:53:04 PM

JOB DESCRIPTION

Graham Cracker 16 State 007H (05.13.23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-32993-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

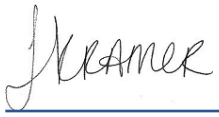
Eurofins Midland

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
9/13/2023 12:53:04 PM

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

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Laboratory Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Job ID: 880-32993-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32993-1

Receipt
The samples were received on 9/7/2023 2:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-32993-1), S-1 (1.5') (880-32993-2), S-1 (2') (880-32993-3), S-1 (3') (880-32993-4), S-1 (4') (880-32993-5), S-2 (0-1') (880-32993-6), S-2 (1.5') (880-32993-7), S-2 (2') (880-32993-8), S-2 (3') (880-32993-9), S-3 (0-1') (880-32993-10), S-3 (1.5') (880-32993-11), S-3 (2') (880-32993-12) and S-3 (3') (880-32993-13).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62007 and 880-62054 and analytical batch 880-62038 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-32979-A-1-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-62059 and analytical batch 880-62025 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-2 (0-1') (880-32993-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-62025/20), (CCV 880-62025/31) and (CCV 880-62025/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-62059 and analytical batch 880-62025 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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

Client Sample Results

Client: Carmona Resources
Job ID: 880-32993-1
Project/Site: Graham Cracker 16 State 007H (05.13.23)
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32993-1
Date Collected: 09/05/23 00:00
Matrix: Solid
Date Received: 09/07/23 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/07/23 16:17	09/08/23 14:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/07/23 16:17	09/08/23 14:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/07/23 16:17	09/08/23 14:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/07/23 16:17	09/08/23 14:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/07/23 16:17	09/08/23 14:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/07/23 16:17	09/08/23 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/07/23 16:17*	*09/08/23 14:33*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/07/23 16:17*	*09/08/23 14:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/08/23 16:02	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			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		09/08/23 10:06	09/08/23 15:06	1
Diesel Range Organics (Over C10-C28)	<50.5	U *-	50.5		mg/Kg		09/08/23 10:06	09/08/23 15:06	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/08/23 10:06	09/08/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/08/23 10:06*	*09/08/23 15:06*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/08/23 10:06*	*09/08/23 15:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.2**		4.96		mg/Kg			09/12/23 16:44	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-32993-2
Date Collected: 09/05/23 00:00
Matrix: Solid
Date Received: 09/07/23 14:26

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		09/07/23 16:17	09/08/23 14:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/07/23 16:17	09/08/23 14:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/07/23 16:17	09/08/23 14:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/07/23 16:17	09/08/23 14:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/07/23 16:17	09/08/23 14:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/07/23 16:17	09/08/23 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*09/07/23 16:17*	*09/08/23 14:54*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/07/23 16:17*	*09/08/23 14:54*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-32993-2
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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			09/08/23 16:02	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			09/11/23 09:54	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		09/08/23 10:06	09/08/23 15:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U *-	49.7		mg/Kg		09/08/23 10:06	09/08/23 15:28	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/08/23 10:06	09/08/23 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*09/08/23 10:06*	*09/08/23 15:28*	*1*
o-Terphenyl	*111*		*70 - 130*	*09/08/23 10:06*	*09/08/23 15:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		4.96		mg/Kg			09/12/23 16:51	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-32993-3
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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		09/07/23 16:17	09/08/23 15:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/07/23 16:17	09/08/23 15:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/07/23 16:17	09/08/23 15:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/07/23 16:17	09/08/23 15:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/07/23 16:17	09/08/23 15:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/07/23 16:17	09/08/23 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/07/23 16:17*	*09/08/23 15:15*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*09/07/23 16:17*	*09/08/23 15:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/08/23 16:02	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			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/08/23 10:06	09/08/23 15:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		09/08/23 10:06	09/08/23 15:50	1

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')

Lab Sample ID: 880-32993-3
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/08/23 10:06	09/08/23 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*09/08/23 10:06*	*09/08/23 15:50*	*1*
o-Terphenyl	*112*		*70 - 130*	*09/08/23 10:06*	*09/08/23 15:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**136**		4.98		mg/Kg			09/12/23 17:10	1

Client Sample ID: S-1 (3')

Lab Sample ID: 880-32993-4
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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		09/07/23 16:17	09/08/23 17:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 17:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 17:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/07/23 16:17	09/08/23 17:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 17:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/07/23 16:17	09/08/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*09/07/23 16:17*	*09/08/23 17:21*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*09/07/23 16:17*	*09/08/23 17:21*	*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			09/11/23 11:11	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			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/23 10:06	09/08/23 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		09/08/23 10:06	09/08/23 16:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/23 10:06	09/08/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*09/08/23 10:06*	*09/08/23 16:34*	*1*
o-Terphenyl	*108*		*70 - 130*	*09/08/23 10:06*	*09/08/23 16:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**152**		4.98		mg/Kg			09/12/23 17:16	1

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (4')

Lab Sample ID: 880-32993-5
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/07/23 16:17	09/08/23 17:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/07/23 16:17	09/08/23 17:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/07/23 16:17	09/08/23 17:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/07/23 16:17	09/08/23 17:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/07/23 16:17	09/08/23 17:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/07/23 16:17	09/08/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/07/23 16:17*	*09/08/23 17:42*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/07/23 16:17*	*09/08/23 17:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/11/23 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		09/08/23 10:06	09/08/23 16:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U *-	50.1		mg/Kg		09/08/23 10:06	09/08/23 16:55	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/08/23 10:06	09/08/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*09/08/23 10:06*	*09/08/23 16:55*	*1*
o-Terphenyl	*97*		*70 - 130*	*09/08/23 10:06*	*09/08/23 16:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		5.05		mg/Kg			09/12/23 17:23	1

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

Lab Sample ID: 880-32993-6
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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		09/07/23 16:17	09/08/23 18:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/07/23 16:17	09/08/23 18:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/07/23 16:17	09/08/23 18:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/07/23 16:17	09/08/23 18:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/07/23 16:17	09/08/23 18:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/07/23 16:17	09/08/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/07/23 16:17*	*09/08/23 18:03*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/07/23 16:17*	*09/08/23 18:03*	*1*

Client Sample Results

Client: Carmona Resources
Job ID: 880-32993-1
Project/Site: Graham Cracker 16 State 007H (05.13.23)
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (0-1')
Lab Sample ID: 880-32993-6
Date Collected: 09/05/23 00:00
Matrix: Solid
Date Received: 09/07/23 14:26

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			09/11/23 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/08/23 10:06	09/08/23 17:18	1
Diesel Range Organics (Over C10-C28)	<50.3	U *-	50.3		mg/Kg		09/08/23 10:06	09/08/23 17:18	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/08/23 10:06	09/08/23 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*09/08/23 10:06*	*09/08/23 17:18*	*1*
o-Terphenyl	*125*		*70 - 130*	*09/08/23 10:06*	*09/08/23 17:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.5**		5.01		mg/Kg			09/12/23 17:29	1

Client Sample ID: S-2 (1.5')
Lab Sample ID: 880-32993-7
Date Collected: 09/05/23 00:00
Matrix: Solid
Date Received: 09/07/23 14:26

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		09/07/23 16:17	09/08/23 18:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 18:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 18:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/07/23 16:17	09/08/23 18:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 18:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/07/23 16:17	09/08/23 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/07/23 16:17*	*09/08/23 18:23*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/07/23 16:17*	*09/08/23 18:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/11/23 11:11	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			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		09/08/23 10:06	09/08/23 17:40	1
Diesel Range Organics (Over C10-C28)	<50.5	U *-	50.5		mg/Kg		09/08/23 10:06	09/08/23 17:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-32993-7
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/08/23 10:06	09/08/23 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/08/23 10:06*	*09/08/23 17:40*	*1*
o-Terphenyl	*107*		*70 - 130*	*09/08/23 10:06*	*09/08/23 17:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.8**		4.97		mg/Kg			09/12/23 17:35	1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-32993-8
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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		09/08/23 09:10	09/08/23 23:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/08/23 23:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/08/23 23:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/08/23 09:10	09/08/23 23:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/08/23 23:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/08/23 09:10	09/08/23 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*09/08/23 09:10*	*09/08/23 23:57*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/08/23 09:10*	*09/08/23 23:57*	*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			09/11/23 11:11	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			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/08/23 10:06	09/08/23 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		09/08/23 10:06	09/08/23 18:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/23 10:06	09/08/23 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*09/08/23 10:06*	*09/08/23 18:02*	*1*
o-Terphenyl	*108*		*70 - 130*	*09/08/23 10:06*	*09/08/23 18:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**192**		4.98		mg/Kg			09/12/23 17:42	1

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3')

Lab Sample ID: 880-32993-9
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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		09/08/23 09:10	09/09/23 00:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/23 09:10	09/09/23 00:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/23 09:10	09/09/23 00:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/08/23 09:10	09/09/23 00:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/23 09:10	09/09/23 00:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/08/23 09:10	09/09/23 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/08/23 09:10*	*09/09/23 00:18*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*09/08/23 09:10*	*09/09/23 00:18*	*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			09/11/23 11:11	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			09/11/23 09:54	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	<49.9	U	49.9		mg/Kg		09/08/23 10:06	09/08/23 18:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		09/08/23 10:06	09/08/23 18:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/23 10:06	09/08/23 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/08/23 10:06*	*09/08/23 18:24*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/08/23 10:06*	*09/08/23 18:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**233**		4.99		mg/Kg			09/12/23 17:48	1

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

Lab Sample ID: 880-32993-10
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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		09/08/23 09:10	09/09/23 00:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/08/23 09:10	09/09/23 00:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/08/23 09:10	09/09/23 00:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/08/23 09:10	09/09/23 00:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/08/23 09:10	09/09/23 00:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/08/23 09:10	09/09/23 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/08/23 09:10*	*09/09/23 00:38*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/08/23 09:10*	*09/09/23 00:38*	*1*

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32993-10
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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			09/11/23 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/11/23 09:54	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		09/08/23 10:06	09/08/23 18:46	1
Diesel Range Organics (Over C10-C28)	<49.7	U *-	49.7		mg/Kg		09/08/23 10:06	09/08/23 18:46	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/08/23 10:06	09/08/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*09/08/23 10:06*	*09/08/23 18:46*	*1*
o-Terphenyl	*116*		*70 - 130*	*09/08/23 10:06*	*09/08/23 18:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**792**		4.98		mg/Kg			09/12/23 18:19	1

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-32993-11
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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		09/08/23 09:10	09/09/23 00:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/08/23 09:10	09/09/23 00:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/08/23 09:10	09/09/23 00:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/08/23 09:10	09/09/23 00:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/08/23 09:10	09/09/23 00:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/08/23 09:10	09/09/23 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/08/23 09:10*	*09/09/23 00:59*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/08/23 09:10*	*09/09/23 00:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/11/23 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			09/11/23 09:54	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	<49.6	U	49.6		mg/Kg		09/08/23 10:06	09/08/23 19:08	1
Diesel Range Organics (Over C10-C28)	<49.6	U *-	49.6		mg/Kg		09/08/23 10:06	09/08/23 19:08	1

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-32993-11
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/08/23 10:06	09/08/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*09/08/23 10:06*	*09/08/23 19:08*	*1*
o-Terphenyl	*111*		*70 - 130*	*09/08/23 10:06*	*09/08/23 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		4.96		mg/Kg			09/12/23 18:25	1

Client Sample ID: S-3 (2')

Lab Sample ID: 880-32993-12
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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		09/08/23 09:10	09/09/23 01:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/09/23 01:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/09/23 01:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/08/23 09:10	09/09/23 01:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/09/23 01:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/08/23 09:10	09/09/23 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*09/08/23 09:10*	*09/09/23 01:20*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/08/23 09:10*	*09/09/23 01:20*	*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			09/11/23 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/08/23 10:06	09/08/23 19:31	1
Diesel Range Organics (Over C10-C28)	<50.3	U *-	50.3		mg/Kg		09/08/23 10:06	09/08/23 19:31	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/08/23 10:06	09/08/23 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*09/08/23 10:06*	*09/08/23 19:31*	*1*
o-Terphenyl	*105*		*70 - 130*	*09/08/23 10:06*	*09/08/23 19:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		4.95		mg/Kg			09/12/23 18:45	1

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')

Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Lab Sample ID: 880-32993-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/09/23 01:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/09/23 01:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/09/23 01:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/08/23 09:10	09/09/23 01:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/08/23 09:10	09/09/23 01:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/08/23 09:10	09/09/23 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/08/23 09:10*	*09/09/23 01:41*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*09/08/23 09:10*	*09/09/23 01:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/11/23 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/11/23 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		09/08/23 10:06	09/08/23 19:53	1
Diesel Range Organics (Over C10-C28)	<50.4	U *-	50.4		mg/Kg		09/08/23 10:06	09/08/23 19:53	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		09/08/23 10:06	09/08/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*09/08/23 10:06*	*09/08/23 19:53*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/08/23 10:06*	*09/08/23 19:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.6**		4.99		mg/Kg			09/12/23 18:52	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
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)
880-32979-A-1-B MS	Matrix Spike	49 S1-	90
880-32979-A-1-C MSD	Matrix Spike Duplicate	96	110
880-32993-1	S-1 (0-1')	88	117
880-32993-2	S-1 (1.5')	94	113
880-32993-3	S-1 (2')	90	117
880-32993-4	S-1 (3')	85	107
880-32993-5	S-1 (4')	93	112
880-32993-6	S-2 (0-1')	90	110
880-32993-7	S-2 (1.5')	93	110
880-32993-8	S-2 (2')	91	95
880-32993-9	S-2 (3')	92	111
880-32993-10	S-3 (0-1')	88	113
880-32993-11	S-3 (1.5')	89	105
880-32993-12	S-3 (2')	77	89
880-32993-13	S-3 (3')	101	111
880-33024-A-16-A MS	Matrix Spike	90	101
880-33024-A-16-B MSD	Matrix Spike Duplicate	86	97
LCS 880-62007/1-A	Lab Control Sample	87	97
LCS 880-62054/1-A	Lab Control Sample	92	96
LCSD 880-62007/2-A	Lab Control Sample Dup	89	103
LCSD 880-62054/2-A	Lab Control Sample Dup	88	102
MB 880-62007/5-A	Method Blank	79	90
MB 880-62054/5-A	Method Blank	79	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 (70-130)	OTPH1 (70-130)
880-32977-A-1-D MS	Matrix Spike	108	82
880-32977-A-1-E MSD	Matrix Spike Duplicate	92	71
880-32993-1	S-1 (0-1')	101	88
880-32993-2	S-1 (1.5')	126	111
880-32993-3	S-1 (2')	127	112
880-32993-4	S-1 (3')	126	108
880-32993-5	S-1 (4')	108	97
880-32993-6	S-2 (0-1')	140 S1+	125
880-32993-7	S-2 (1.5')	121	107
880-32993-8	S-2 (2')	125	108
880-32993-9	S-2 (3')	121	104
880-32993-10	S-3 (0-1')	129	116
880-32993-11	S-3 (1.5')	124	111
880-32993-12	S-3 (2')	118	105
880-32993-13	S-3 (3')	125	109
LCS 880-62059/2-A	Lab Control Sample	84	87

Surrogate Summary

Client: Carmona Resources Job ID: 880-32993-1
Project/Site: Graham Cracker 16 State 007H (05.13.23) SDG: Eddy County, New Mexico

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCSD 880-62059/3-A	Lab Control Sample Dup	91	87								
MB 880-62059/1-A	Method Blank	133 S1+	120								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-62007/5-A
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/07/23 16:17	09/08/23 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/23 16:17	09/08/23 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/23 16:17	09/08/23 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*09/07/23 16:17*	*09/08/23 11:46*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/07/23 16:17*	*09/08/23 11:46*	*1*

Lab Sample ID: LCS 880-62007/1-A
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08374		mg/Kg		84	70 - 130
Toluene	0.100	0.07828		mg/Kg		78	70 - 130
Ethylbenzene	0.100	0.07675		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1528		mg/Kg		76	70 - 130
o-Xylene	0.100	0.07385		mg/Kg		74	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-62007/2-A
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62007

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09245		mg/Kg		92	70 - 130	10	35
Toluene	0.100	0.08722		mg/Kg		87	70 - 130	11	35
Ethylbenzene	0.100	0.08649		mg/Kg		86	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1728		mg/Kg		86	70 - 130	12	35
o-Xylene	0.100	0.08263		mg/Kg		83	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-32979-A-1-B MS
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62007

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.06984		mg/Kg		70	70 - 130
Toluene	<0.00198	U F1 F2	0.0996	0.03540	F1	mg/Kg		36	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32979-A-1-B MS
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62007

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U F1 F2	0.0996	0.03269	F1	mg/Kg		33	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.199	0.06143	F1	mg/Kg		31	70 - 130
o-Xylene	<0.00198	U F1 F2	0.0996	0.02885	F1	mg/Kg		29	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*49*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-32979-A-1-C MSD
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62007

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.08299		mg/Kg		83	70 - 130	17	35
Toluene	<0.00198	U F1 F2	0.100	0.07408	F2	mg/Kg		74	70 - 130	71	35
Ethylbenzene	<0.00198	U F1 F2	0.100	0.07131	F2	mg/Kg		71	70 - 130	74	35
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.200	0.1333	F1 F2	mg/Kg		67	70 - 130	74	35
o-Xylene	<0.00198	U F1 F2	0.100	0.07279	F2	mg/Kg		73	70 - 130	86	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-62054/5-A
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/23 09:10	09/08/23 23:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/23 09:10	09/08/23 23:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/23 09:10	09/08/23 23:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/08/23 09:10	09/08/23 23:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/23 09:10	09/08/23 23:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/08/23 09:10	09/08/23 23:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*09/08/23 09:10*	*09/08/23 23:14*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/08/23 09:10*	*09/08/23 23:14*	*1*

Lab Sample ID: LCS 880-62054/1-A
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08596		mg/Kg		86	70 - 130
Toluene	0.100	0.08383		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08356		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1686		mg/Kg		84	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-62054/1-A
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62054

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.08202		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-62054/2-A
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62054

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08719		mg/Kg		87	70 - 130	1	35
Toluene			0.100	0.08261		mg/Kg		83	70 - 130	1	35
Ethylbenzene			0.100	0.08113		mg/Kg		81	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1624		mg/Kg		81	70 - 130	4	35
o-Xylene			0.100	0.07926		mg/Kg		79	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-33024-A-16-A MS
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1	0.0998	0.07707		mg/Kg		77	70 - 130		
Toluene	<0.00199	U F1	0.0998	0.07092		mg/Kg		71	70 - 130		
Ethylbenzene	<0.00199	U F1	0.0998	0.06510	F1	mg/Kg		65	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1258	F1	mg/Kg		63	70 - 130		
o-Xylene	<0.00199	U F1	0.0998	0.06083	F1	mg/Kg		61	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-33024-A-16-B MSD
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62054

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.06789	F1	mg/Kg		68	70 - 130	13	35
Toluene	<0.00199	U F1	0.100	0.06215	F1	mg/Kg		62	70 - 130	13	35
Ethylbenzene	<0.00199	U F1	0.100	0.05615	F1	mg/Kg		56	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1058	F1	mg/Kg		53	70 - 130	17	35
o-Xylene	<0.00199	U F1	0.100	0.05375	F1	mg/Kg		53	70 - 130	12	35

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-33024-A-16-B MSD
Matrix: Solid
Analysis Batch: 62038

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62054

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 880-62059/1-A
Matrix: Solid
Analysis Batch: 62025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62059

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		09/08/23 08:00	09/08/23 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/23 08:00	09/08/23 09:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/23 08:00	09/08/23 09:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*09/08/23 08:00*	*09/08/23 09:08*	*1*
o-Terphenyl	*120*		*70 - 130*	*09/08/23 08:00*	*09/08/23 09:08*	*1*

Lab Sample ID: LCS 880-62059/2-A
Matrix: Solid
Analysis Batch: 62025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62059

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	949.2		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	689.8	*-	mg/Kg		69	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-62059/3-A
Matrix: Solid
Analysis Batch: 62025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62059

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	977.9		mg/Kg		98	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	695.3		mg/Kg		70	70 - 130	1	20

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

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32977-A-1-D MS
Matrix: Solid
Analysis Batch: 62025

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	969.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	80.8	*-	997	1092		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 880-32977-A-1-E MSD
Matrix: Solid
Analysis Batch: 62025

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	957.7		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	80.8	*-	997	937.7		mg/Kg		86	70 - 130	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62031/1-A
Matrix: Solid
Analysis Batch: 62278

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			09/12/23 14:36	1

Lab Sample ID: LCS 880-62031/2-A
Matrix: Solid
Analysis Batch: 62278

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-62031/3-A
Matrix: Solid
Analysis Batch: 62278

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.0		mg/Kg		99	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-32977-A-7-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 62278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	32.3		250	282.6		mg/Kg		100	90 - 110

Lab Sample ID: 880-32977-A-7-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 62278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	32.3		250	282.6		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-62032/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 62331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/12/23 17:25	1

Lab Sample ID: LCS 880-62032/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 62331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.5		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-62032/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 62331

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.9		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-32940-A-30-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 62331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	462	F1	250	682.1	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-32940-A-30-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 62331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	462	F1	250	681.8	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 62007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-1	S-1 (0-1')	Total/NA	Solid	5035	
880-32993-2	S-1 (1.5')	Total/NA	Solid	5035	
880-32993-3	S-1 (2')	Total/NA	Solid	5035	
880-32993-4	S-1 (3')	Total/NA	Solid	5035	
880-32993-5	S-1 (4')	Total/NA	Solid	5035	
880-32993-6	S-2 (0-1')	Total/NA	Solid	5035	
880-32993-7	S-2 (1.5')	Total/NA	Solid	5035	
MB 880-62007/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62007/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62007/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32979-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-32979-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 62038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-1	S-1 (0-1')	Total/NA	Solid	8021B	62007
880-32993-2	S-1 (1.5')	Total/NA	Solid	8021B	62007
880-32993-3	S-1 (2')	Total/NA	Solid	8021B	62007
880-32993-4	S-1 (3')	Total/NA	Solid	8021B	62007
880-32993-5	S-1 (4')	Total/NA	Solid	8021B	62007
880-32993-6	S-2 (0-1')	Total/NA	Solid	8021B	62007
880-32993-7	S-2 (1.5')	Total/NA	Solid	8021B	62007
880-32993-8	S-2 (2')	Total/NA	Solid	8021B	62054
880-32993-9	S-2 (3')	Total/NA	Solid	8021B	62054
880-32993-10	S-3 (0-1')	Total/NA	Solid	8021B	62054
880-32993-11	S-3 (1.5')	Total/NA	Solid	8021B	62054
880-32993-12	S-3 (2')	Total/NA	Solid	8021B	62054
880-32993-13	S-3 (3')	Total/NA	Solid	8021B	62054
MB 880-62007/5-A	Method Blank	Total/NA	Solid	8021B	62007
MB 880-62054/5-A	Method Blank	Total/NA	Solid	8021B	62054
LCS 880-62007/1-A	Lab Control Sample	Total/NA	Solid	8021B	62007
LCS 880-62054/1-A	Lab Control Sample	Total/NA	Solid	8021B	62054
LCSD 880-62007/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62007
LCSD 880-62054/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62054
880-32979-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	62007
880-32979-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62007
880-33024-A-16-A MS	Matrix Spike	Total/NA	Solid	8021B	62054
880-33024-A-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62054

Prep Batch: 62054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-8	S-2 (2')	Total/NA	Solid	5035	
880-32993-9	S-2 (3')	Total/NA	Solid	5035	
880-32993-10	S-3 (0-1')	Total/NA	Solid	5035	
880-32993-11	S-3 (1.5')	Total/NA	Solid	5035	
880-32993-12	S-3 (2')	Total/NA	Solid	5035	
880-32993-13	S-3 (3')	Total/NA	Solid	5035	
MB 880-62054/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62054/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62054/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33024-A-16-A MS	Matrix Spike	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Prep Batch: 62054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33024-A-16-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 62112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-32993-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-32993-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-32993-4	S-1 (3')	Total/NA	Solid	Total BTEX	
880-32993-5	S-1 (4')	Total/NA	Solid	Total BTEX	
880-32993-6	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-32993-7	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-32993-8	S-2 (2')	Total/NA	Solid	Total BTEX	
880-32993-9	S-2 (3')	Total/NA	Solid	Total BTEX	
880-32993-10	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-32993-11	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-32993-12	S-3 (2')	Total/NA	Solid	Total BTEX	
880-32993-13	S-3 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 62025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-1	S-1 (0-1')	Total/NA	Solid	8015B NM	62059
880-32993-2	S-1 (1.5')	Total/NA	Solid	8015B NM	62059
880-32993-3	S-1 (2')	Total/NA	Solid	8015B NM	62059
880-32993-4	S-1 (3')	Total/NA	Solid	8015B NM	62059
880-32993-5	S-1 (4')	Total/NA	Solid	8015B NM	62059
880-32993-6	S-2 (0-1')	Total/NA	Solid	8015B NM	62059
880-32993-7	S-2 (1.5')	Total/NA	Solid	8015B NM	62059
880-32993-8	S-2 (2')	Total/NA	Solid	8015B NM	62059
880-32993-9	S-2 (3')	Total/NA	Solid	8015B NM	62059
880-32993-10	S-3 (0-1')	Total/NA	Solid	8015B NM	62059
880-32993-11	S-3 (1.5')	Total/NA	Solid	8015B NM	62059
880-32993-12	S-3 (2')	Total/NA	Solid	8015B NM	62059
880-32993-13	S-3 (3')	Total/NA	Solid	8015B NM	62059
MB 880-62059/1-A	Method Blank	Total/NA	Solid	8015B NM	62059
LCS 880-62059/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62059
LCSD 880-62059/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62059
880-32977-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	62059
880-32977-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	62059

Prep Batch: 62059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-32993-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-32993-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-32993-4	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-32993-5	S-1 (4')	Total/NA	Solid	8015NM Prep	
880-32993-6	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-32993-7	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-32993-8	S-2 (2')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 62059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-9	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-32993-10	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-32993-11	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-32993-12	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-32993-13	S-3 (3')	Total/NA	Solid	8015NM Prep	
MB 880-62059/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62059/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62059/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32977-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-32977-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-32993-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-32993-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-32993-4	S-1 (3')	Total/NA	Solid	8015 NM	
880-32993-5	S-1 (4')	Total/NA	Solid	8015 NM	
880-32993-6	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-32993-7	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-32993-8	S-2 (2')	Total/NA	Solid	8015 NM	
880-32993-9	S-2 (3')	Total/NA	Solid	8015 NM	
880-32993-10	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-32993-11	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-32993-12	S-3 (2')	Total/NA	Solid	8015 NM	
880-32993-13	S-3 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 62031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-32993-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-32993-3	S-1 (2')	Soluble	Solid	DI Leach	
880-32993-4	S-1 (3')	Soluble	Solid	DI Leach	
880-32993-5	S-1 (4')	Soluble	Solid	DI Leach	
880-32993-6	S-2 (0-1')	Soluble	Solid	DI Leach	
880-32993-7	S-2 (1.5')	Soluble	Solid	DI Leach	
880-32993-8	S-2 (2')	Soluble	Solid	DI Leach	
880-32993-9	S-2 (3')	Soluble	Solid	DI Leach	
MB 880-62031/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62031/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62031/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32977-A-7-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-32977-A-7-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 62032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-10	S-3 (0-1')	Soluble	Solid	DI Leach	
880-32993-11	S-3 (1.5')	Soluble	Solid	DI Leach	
880-32993-12	S-3 (2')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 62032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-13	S-3 (3')	Soluble	Solid	DI Leach	
MB 880-62032/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62032/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62032/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32940-A-30-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-32940-A-30-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 62278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-1	S-1 (0-1')	Soluble	Solid	300.0	62031
880-32993-2	S-1 (1.5')	Soluble	Solid	300.0	62031
880-32993-3	S-1 (2')	Soluble	Solid	300.0	62031
880-32993-4	S-1 (3')	Soluble	Solid	300.0	62031
880-32993-5	S-1 (4')	Soluble	Solid	300.0	62031
880-32993-6	S-2 (0-1')	Soluble	Solid	300.0	62031
880-32993-7	S-2 (1.5')	Soluble	Solid	300.0	62031
880-32993-8	S-2 (2')	Soluble	Solid	300.0	62031
880-32993-9	S-2 (3')	Soluble	Solid	300.0	62031
MB 880-62031/1-A	Method Blank	Soluble	Solid	300.0	62031
LCS 880-62031/2-A	Lab Control Sample	Soluble	Solid	300.0	62031
LCSD 880-62031/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62031
880-32977-A-7-C MS	Matrix Spike	Soluble	Solid	300.0	62031
880-32977-A-7-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	62031

Analysis Batch: 62331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32993-10	S-3 (0-1')	Soluble	Solid	300.0	62032
880-32993-11	S-3 (1.5')	Soluble	Solid	300.0	62032
880-32993-12	S-3 (2')	Soluble	Solid	300.0	62032
880-32993-13	S-3 (3')	Soluble	Solid	300.0	62032
MB 880-62032/1-A	Method Blank	Soluble	Solid	300.0	62032
LCS 880-62032/2-A	Lab Control Sample	Soluble	Solid	300.0	62032
LCSD 880-62032/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62032
880-32940-A-30-C MS	Matrix Spike	Soluble	Solid	300.0	62032
880-32940-A-30-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	62032

Lab Chronicle

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32993-1
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	62007	09/07/23 16:17	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/08/23 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/08/23 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 15:06	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 16:44	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-32993-2
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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	62007	09/07/23 16:17	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/08/23 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/08/23 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 15:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 16:51	CH	EET MID

Client Sample ID: S-1 (2')

Lab Sample ID: 880-32993-3
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	62007	09/07/23 16:17	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/08/23 15:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/08/23 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 15:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 17:10	CH	EET MID

Client Sample ID: S-1 (3')

Lab Sample ID: 880-32993-4
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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	62007	09/07/23 16:17	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/08/23 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (3')

Lab Sample ID: 880-32993-4
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 16:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 17:16	CH	EET MID

Client Sample ID: S-1 (4')

Lab Sample ID: 880-32993-5
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	62007	09/07/23 16:17	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/08/23 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 16:55	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 17:23	CH	EET MID

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

Lab Sample ID: 880-32993-6
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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	62007	09/07/23 16:17	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/08/23 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 17:18	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 17:29	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-32993-7
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	62007	09/07/23 16:17	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/08/23 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 17:40	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-32993-7
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 17:35	CH	EET MID

Client Sample ID: S-2 (2')

Lab Sample ID: 880-32993-8
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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	62054	09/08/23 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/08/23 23:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 18:02	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 17:42	CH	EET MID

Client Sample ID: S-2 (3')

Lab Sample ID: 880-32993-9
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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	62054	09/08/23 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/09/23 00:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 18:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 17:48	CH	EET MID

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

Lab Sample ID: 880-32993-10
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

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	62054	09/08/23 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/09/23 00:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 18:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62032	09/08/23 08:04	CH	EET MID
Soluble	Analysis	300.0		1			62331	09/12/23 18:19	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-32993-11
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.965 g	5 mL	62054	09/08/23 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/09/23 00:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 19:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62032	09/08/23 08:04	CH	EET MID
Soluble	Analysis	300.0		1			62331	09/12/23 18:25	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-32993-12
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	62054	09/08/23 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/09/23 01:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 19:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62032	09/08/23 08:04	CH	EET MID
Soluble	Analysis	300.0		1			62331	09/12/23 18:45	CH	EET MID

Client Sample ID: S-3 (3')

Lab Sample ID: 880-32993-13
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	62054	09/08/23 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62038	09/09/23 01:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62112	09/11/23 11:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			62141	09/11/23 09:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	62059	09/08/23 10:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62025	09/08/23 19:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62032	09/08/23 08:04	CH	EET MID
Soluble	Analysis	300.0		1			62331	09/12/23 18:52	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
Job ID: 880-32993-1
Project/Site: Graham Cracker 16 State 007H (05.13.23)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
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: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32993-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32993-1	S-1 (0-1')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-2	S-1 (1.5')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-3	S-1 (2')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-4	S-1 (3')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-5	S-1 (4')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-6	S-2 (0-1')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-7	S-2 (1.5')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-8	S-2 (2')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-9	S-2 (3')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-10	S-3 (0-1')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-11	S-3 (1.5')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-12	S-3 (2')	Solid	09/05/23 00:00	09/07/23 14:26
880-32993-13	S-3 (3')	Solid	09/05/23 00:00	09/07/23 14:26

Chain of Custody

Wc

880-32993 Chain of Custody

Page 1 of 2

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Graham Cracker 16 State 007H (05 13 23)	Turn Around	
Project Number	2121	☐ Routine	☑ Rush
Project Location	Eddy County New Mexico	Due Date	72 Hrs
Sampler's Name	JR/JM		
PO #:			

SAMPLE RECEIPT	Temp Blank.	Yes (No)	Wet Ice	(Yes) No	
Received Intact:	(Yes) No	Thermometer ID		108	
Cooler Custody Seals	Yes No (N/A)	Correction Factor		-.30	
Sample Custody Seals	Yes No (N/A)	Temperature Reading		10.0	
Total Containers.		Corrected Temperature		9.7	

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL. HC; HNO_3 HN; H_2S0_4. H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-1 (0-1')	9/5/2023		X		G	1	X	X	X	
S-1 (1 5')	9/5/2023		X		G	1	X	X	X	
S-1 (2')	9/5/2023		X		G	1	X	X	X	
S-1 (3')	9/5/2023		X		G	1	X	X	X	
S-1 (4')	9/5/2023		X		G	1	X	X	X	
S-2 (0-1')	9/5/2023		X		G	1	X	X	X	
S-2 (1 5')	9/5/2023		X		G	1	X	X	X	
S-2 (2')	9/5/2023		X		G	1	X	X	X	
S-2 (3')	9/5/2023		X		G	1	X	X	X	
S-3 (0-1')	9/5/2023		X		G	1	X	X	X	

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	9-7-23 1426		

Chain of Custody

Loc: 880
32993

Work Order No: 2

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

Work Order Comments

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

Project Name.	Graham Cracker 16 State 007H (05 13 23)	Turn Around	
Project Number	2121	☐ Routine	☑ Rush
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name.	JR/JM		
PO #.			

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice.	Yes No	
Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature		

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2S0_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
S-3 (1 5')	9/5/2023		X		G	1		X	X	X	
S-3 (2')	9/5/2023		X		G	1		X	X	X	
S-3 (3')	9/5/2023		X		G	1		X	X	X	

Parameters

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	9-7-23 1424		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-32993-1
SDG Number: Eddy County, New Mexico

Login Number: 32993
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/13/2023 12:52:01 PM

JOB DESCRIPTION

Graham Cracker 16 State 007H (05.13.23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-32976-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

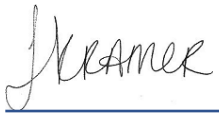
Eurofins Midland

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
9/13/2023 12:52:01 PM

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

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Laboratory Job ID: 880-32976-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, 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/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

Job ID: 880-32976-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32976-1

Receipt
The samples were received on 9/7/2023 2:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-32976-1), H-2 (0-0.5') (880-32976-2), H-3 (0-0.5') (880-32976-3) and H-4 (0-0.5') (880-32976-4).

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-62002 and analytical batch 880-61968 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-62060 and analytical batch 880-62028 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-62060 and analytical batch 880-62028 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-62060 and analytical batch 880-62028 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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

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

Client Sample Results

Client: Carmona Resources
Job ID: 880-32976-1
Project/Site: Graham Cracker 16 State 007H (05.13.23)
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32976-1
Date Collected: 09/05/23 00:00
Matrix: Solid
Date Received: 09/07/23 14:24

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		09/07/23 15:49	09/07/23 19:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 19:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 19:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/07/23 15:49	09/07/23 19:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 19:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/07/23 15:49	09/07/23 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/07/23 15:49*	*09/07/23 19:23*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/07/23 15:49*	*09/07/23 19:23*	*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			09/08/23 08:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**341**		49.9		mg/Kg			09/11/23 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2 *1	49.9		mg/Kg		09/08/23 10:09	09/08/23 11:42	1
Diesel Range Organics (Over C10-C28)	**228**	**F1 *1**	49.9		mg/Kg		09/08/23 10:09	09/08/23 11:42	1
Oil Range Organics (Over C28-C36)	**113**		49.9		mg/Kg		09/08/23 10:09	09/08/23 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/08/23 10:09*	*09/08/23 11:42*	*1*
o-Terphenyl	*115*		*70 - 130*	*09/08/23 10:09*	*09/08/23 11:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.4**		4.96		mg/Kg			09/12/23 14:56	1

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

Lab Sample ID: 880-32976-2
Date Collected: 09/05/23 00:00
Matrix: Solid
Date Received: 09/07/23 14:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00322**		0.00198		mg/Kg		09/07/23 15:49	09/07/23 19:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/07/23 15:49	09/07/23 19:44	1
Ethylbenzene	**0.00330**		0.00198		mg/Kg		09/07/23 15:49	09/07/23 19:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/07/23 15:49	09/07/23 19:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/07/23 15:49	09/07/23 19:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/07/23 15:49	09/07/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*09/07/23 15:49*	*09/07/23 19:44*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*09/07/23 15:49*	*09/07/23 19:44*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

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

Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:24

Lab Sample ID: 880-32976-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00652**		0.00396		mg/Kg			09/08/23 08:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**103**		50.3		mg/Kg			09/11/23 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3		mg/Kg		09/08/23 10:09	09/08/23 12:48	1
Diesel Range Organics (Over C10-C28)	**103**	***1**	50.3		mg/Kg		09/08/23 10:09	09/08/23 12:48	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/08/23 10:09	09/08/23 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*09/08/23 10:09*	*09/08/23 12:48*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/08/23 10:09*	*09/08/23 12:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.9**		5.00		mg/Kg			09/12/23 15:15	1

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

Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:24

Lab Sample ID: 880-32976-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/07/23 15:49	09/07/23 20:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/07/23 15:49	09/07/23 20:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/07/23 15:49	09/07/23 20:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/07/23 15:49	09/07/23 20:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/07/23 15:49	09/07/23 20:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/07/23 15:49	09/07/23 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/07/23 15:49*	*09/07/23 20:04*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/07/23 15:49*	*09/07/23 20:04*	*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			09/08/23 08:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.6**		50.5		mg/Kg			09/11/23 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		09/08/23 10:09	09/08/23 13:11	1
Diesel Range Organics (Over C10-C28)	**76.6**	***1**	50.5		mg/Kg		09/08/23 10:09	09/08/23 13:11	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32976-3
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/08/23 10:09	09/08/23 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*09/08/23 10:09*	*09/08/23 13:11*	*1*
o-Terphenyl	*120*		*70 - 130*	*09/08/23 10:09*	*09/08/23 13:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.6**		5.04		mg/Kg			09/12/23 15:21	1

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

Lab Sample ID: 880-32976-4
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:24

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		09/07/23 15:49	09/07/23 20:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 20:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 20:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/07/23 15:49	09/07/23 20:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 20:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/23 15:49	09/07/23 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/07/23 15:49*	*09/07/23 20:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*09/07/23 15:49*	*09/07/23 20:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/08/23 08:59	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			09/11/23 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		09/08/23 10:09	09/08/23 13:37	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		09/08/23 10:09	09/08/23 13:37	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/08/23 10:09	09/08/23 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*09/08/23 10:09*	*09/08/23 13:37*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/08/23 10:09*	*09/08/23 13:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.2**		4.95		mg/Kg			09/12/23 15:28	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-32976-1	H-1 (0-0.5')	93	112
880-32976-2	H-2 (0-0.5')	89	108
880-32976-3	H-3 (0-0.5')	95	110
880-32976-4	H-4 (0-0.5')	113	96
880-32978-A-1-A MS	Matrix Spike	91	103
880-32978-A-1-B MSD	Matrix Spike Duplicate	86	101
LCS 880-62002/1-A	Lab Control Sample	88	100
LCSD 880-62002/2-A	Lab Control Sample Dup	97	101
MB 880-62002/5-A	Method Blank	81	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-32976-1	H-1 (0-0.5')	110	115
880-32976-1 MS	H-1 (0-0.5')	96	92
880-32976-1 MSD	H-1 (0-0.5')	96	92
880-32976-2	H-2 (0-0.5')	97	102
880-32976-3	H-3 (0-0.5')	112	120
880-32976-4	H-4 (0-0.5')	96	104
LCS 880-62060/2-A	Lab Control Sample	91	96
LCSD 880-62060/3-A	Lab Control Sample Dup	82	89
MB 880-62060/1-A	Method Blank	163 S1+	180 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-62002/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61968 — **Prep Batch: 62002**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 18:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 18:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 18:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/07/23 15:49	09/07/23 18:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/07/23 15:49	09/07/23 18:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/07/23 15:49	09/07/23 18:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*09/07/23 15:49*	*09/07/23 18:40*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/07/23 15:49*	*09/07/23 18:40*	*1*

Lab Sample ID: LCS 880-62002/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61968 — **Prep Batch: 62002**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08595		mg/Kg		86	70 - 130
Toluene	0.100	0.08295		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08107		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1624		mg/Kg		81	70 - 130
o-Xylene	0.100	0.07819		mg/Kg		78	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-62002/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61968 — **Prep Batch: 62002**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1137		mg/Kg		114	70 - 130	28	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	27	35
Ethylbenzene	0.100	0.1087		mg/Kg		109	70 - 130	29	35
m-Xylene & p-Xylene	0.200	0.2186		mg/Kg		109	70 - 130	29	35
o-Xylene	0.100	0.1045		mg/Kg		104	70 - 130	29	35

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

Lab Sample ID: 880-32978-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61968 — **Prep Batch: 62002**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.100	0.08687		mg/Kg		86	70 - 130
Toluene	<0.00201	U F1	0.100	0.08240		mg/Kg		82	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32978-A-1-A MS
Matrix: Solid
Analysis Batch: 61968

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.07979		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1569		mg/Kg		78	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.07419		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-32978-A-1-B MSD
Matrix: Solid
Analysis Batch: 61968

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62002

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.101	0.06854	F1	mg/Kg		67	70 - 130	24	35
Toluene	<0.00201	U F1	0.101	0.06166	F1	mg/Kg		61	70 - 130	29	35
Ethylbenzene	<0.00201	U F1	0.101	0.05995	F1	mg/Kg		59	70 - 130	28	35
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1171	F1	mg/Kg		58	70 - 130	29	35
o-Xylene	<0.00201	U F1	0.101	0.05482	F1	mg/Kg		54	70 - 130	30	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-62060/1-A
Matrix: Solid
Analysis Batch: 62028

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62060

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		09/08/23 08:00	09/08/23 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/23 08:00	09/08/23 09:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/23 08:00	09/08/23 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*09/08/23 08:00*	*09/08/23 09:08*	*1*
o-Terphenyl	*180*	*S1+*	*70 - 130*	*09/08/23 08:00*	*09/08/23 09:08*	*1*

Lab Sample ID: LCS 880-62060/2-A
Matrix: Solid
Analysis Batch: 62028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1166		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1051		mg/Kg		105	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-62060/2-A
Matrix: Solid
Analysis Batch: 62028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62060

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-62060/3-A
Matrix: Solid
Analysis Batch: 62028

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62060

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	938.4	*1	mg/Kg		94	70 - 130	22	20
Diesel Range Organics (Over C10-C28)			1000	783.4	*1	mg/Kg		78	70 - 130	29	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-32976-1 MS
Matrix: Solid
Analysis Batch: 62028

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 62060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2 *1	995	829.3		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	228	F1 *1	995	863.5	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-32976-1 MSD
Matrix: Solid
Analysis Batch: 62028

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 62060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2 *1	995	1142	F2	mg/Kg		113	70 - 130	32	20
Diesel Range Organics (Over C10-C28)	228	F1 *1	995	864.8	F1	mg/Kg		64	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	92		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62031/1-A
Matrix: Solid
Analysis Batch: 62278

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			09/12/23 14:36	1

Lab Sample ID: LCS 880-62031/2-A
Matrix: Solid
Analysis Batch: 62278

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-62031/3-A
Matrix: Solid
Analysis Batch: 62278

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	247.0		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-32976-1 MS
Matrix: Solid
Analysis Batch: 62278

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	45.4		248	298.5		mg/Kg		102	90 - 110		

Lab Sample ID: 880-32976-1 MSD
Matrix: Solid
Analysis Batch: 62278

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	45.4		248	298.2		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 61968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32976-1	H-1 (0-0.5')	Total/NA	Solid	8021B	62002
880-32976-2	H-2 (0-0.5')	Total/NA	Solid	8021B	62002
880-32976-3	H-3 (0-0.5')	Total/NA	Solid	8021B	62002
880-32976-4	H-4 (0-0.5')	Total/NA	Solid	8021B	62002
MB 880-62002/5-A	Method Blank	Total/NA	Solid	8021B	62002
LCS 880-62002/1-A	Lab Control Sample	Total/NA	Solid	8021B	62002
LCSD 880-62002/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62002
880-32978-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	62002
880-32978-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62002

Prep Batch: 62002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32976-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-32976-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-32976-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-32976-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-62002/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62002/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62002/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32978-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-32978-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 62043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32976-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-32976-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-32976-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-32976-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 62028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32976-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	62060
880-32976-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	62060
880-32976-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	62060
880-32976-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	62060
MB 880-62060/1-A	Method Blank	Total/NA	Solid	8015B NM	62060
LCS 880-62060/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62060
LCSD 880-62060/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62060
880-32976-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	62060
880-32976-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	62060

Prep Batch: 62060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32976-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-32976-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-32976-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-32976-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-62060/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62060/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 62060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-62060/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32976-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-32976-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32976-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-32976-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-32976-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-32976-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 62031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32976-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-32976-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-32976-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-32976-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-62031/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62031/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62031/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32976-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-32976-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 62278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32976-1	H-1 (0-0.5')	Soluble	Solid	300.0	62031
880-32976-2	H-2 (0-0.5')	Soluble	Solid	300.0	62031
880-32976-3	H-3 (0-0.5')	Soluble	Solid	300.0	62031
880-32976-4	H-4 (0-0.5')	Soluble	Solid	300.0	62031
MB 880-62031/1-A	Method Blank	Soluble	Solid	300.0	62031
LCS 880-62031/2-A	Lab Control Sample	Soluble	Solid	300.0	62031
LCSD 880-62031/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62031
880-32976-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	62031
880-32976-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	62031

Lab Chronicle

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32976-1
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:24

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	62002	09/07/23 15:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61968	09/07/23 19:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			62043	09/08/23 08:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			62145	09/11/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	62060	09/08/23 10:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62028	09/08/23 11:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 14:56	CH	EET MID

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

Lab Sample ID: 880-32976-2
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	62002	09/07/23 15:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61968	09/07/23 19:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			62043	09/08/23 08:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			62145	09/11/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62060	09/08/23 10:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62028	09/08/23 12:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 15:15	CH	EET MID

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

Lab Sample ID: 880-32976-3
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:24

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	62002	09/07/23 15:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61968	09/07/23 20:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			62043	09/08/23 08:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			62145	09/11/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62060	09/08/23 10:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62028	09/08/23 13:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 15:21	CH	EET MID

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

Lab Sample ID: 880-32976-4
Matrix: Solid
Date Collected: 09/05/23 00:00
Date Received: 09/07/23 14:24

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	62002	09/07/23 15:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61968	09/07/23 20:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			62043	09/08/23 08:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Job ID: 880-32976-1
Project/Site: Graham Cracker 16 State 007H (05.13.23)
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Lab Sample ID: 880-32976-4

Date Collected: 09/05/23 00:00
Matrix: Solid
Date Received: 09/07/23 14:24

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			62145	09/11/23 10:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	62060	09/08/23 10:09	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62028	09/08/23 13:37	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62031	09/08/23 08:03	CH	EET MID
Soluble	Analysis	300.0		1			62278	09/12/23 15:28	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Job ID: 880-32976-1
Project/Site: Graham Cracker 16 State 007H (05.13.23)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Carmona Resources
Job ID: 880-32976-1
Project/Site: Graham Cracker 16 State 007H (05.13.23)
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: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-32976-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32976-1	H-1 (0-0.5')	Solid	09/05/23 00:00	09/07/23 14:24
880-32976-2	H-2 (0-0.5')	Solid	09/05/23 00:00	09/07/23 14:24
880-32976-3	H-3 (0-0.5')	Solid	09/05/23 00:00	09/07/23 14:24
880-32976-4	H-4 (0-0.5')	Solid	09/05/23 00:00	09/07/23 14:24

Chain of Custody

Work Order No: 32976

Page 1 of 1

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Graham Cracker 16 State 007H (05 13 23)	Turn Around	
Project Number	2121	☐ Routine ☑ Rush	
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	JR/JM		
PO #			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Received Intact:	Yes No	Thermometer ID	IR8	
Cooler Custody Seals.	Yes No N/A	Correction Factor	-.30	
Sample Custody Seals.	Yes No N/A	Temperature Reading	0.0	
Total Containers.		Corrected Temperature.	67	

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
H-1 (0-0 5')	9/5/2023		X		G	1		X	X	X
H-2 (0-0 5')	9/5/2023		X		G	1		X	X	X
H-3 (0-0 5')	9/5/2023		X		G	1		X	X	X
H-4 (0-0 5')	9/5/2023		X		G	1		X	X	X

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2S0_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

880-32976 Chain of Custody

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	9-7-23 1420		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-32976-1
SDG Number: Eddy County, New Mexico

Login Number: 32976
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/3/2023 11:20:16 AM

JOB DESCRIPTION

Graham Cracker 16 State 007H (05.13.23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-35134-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

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
11/3/2023 11:20:16 AM

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

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Laboratory Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Job ID: 880-35134-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-35134-1

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

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

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

Receipt
The samples were received on 11/1/2023 9:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (1.5') (880-35134-1), CS-2 (1.5') (880-35134-2), CS-3 (1.5') (880-35134-3), CS-4 (1.5') (880-35134-4), SW-1 (1.5') (880-35134-5), SW-2 (1.5') (880-35134-6), SW-3 (1.5') (880-35134-7), SW-4 (1.5') (880-35134-8) and SW-5 (1.5') (880-35134-9).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-65962 and analytical batch 880-65954 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-65962/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-66035/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65965 and analytical batch 880-65945 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (1.5') (880-35134-1), CS-3 (1.5') (880-35134-3), CS-4 (1.5') (880-35134-4), SW-1 (1.5') (880-35134-5), SW-2 (1.5') (880-35134-6), SW-3 (1.5') (880-35134-7), (880-35073-A-25-C), (880-35073-A-25-D MS) and (880-35073-A-25-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-65945/20) and (CCV 880-65945/5). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-35134-1
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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		11/01/23 09:35	11/01/23 16:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/23 09:35	11/01/23 16:10	1
Ethylbenzene	<0.00202	U *-	0.00202		mg/Kg		11/01/23 09:35	11/01/23 16:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/23 09:35	11/01/23 16:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/23 09:35	11/01/23 16:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/23 09:35	11/01/23 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/01/23 09:35*	*11/01/23 16:10*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/01/23 09:35*	*11/01/23 16:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/01/23 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	<50.0	U	50.0		mg/Kg			11/01/23 15:13	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		11/01/23 10:31	11/01/23 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/01/23 10:31	11/01/23 15:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/23 10:31	11/01/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*11/01/23 10:31*	*11/01/23 15:13*	*1*
o-Terphenyl	*128*		*70 - 130*	*11/01/23 10:31*	*11/01/23 15:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.1**		5.02		mg/Kg			11/02/23 19:08	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-35134-2
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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		11/01/23 09:35	11/01/23 16:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/23 09:35	11/01/23 16:31	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		11/01/23 09:35	11/01/23 16:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/23 09:35	11/01/23 16:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/23 09:35	11/01/23 16:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/23 09:35	11/01/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/01/23 09:35*	*11/01/23 16:31*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*11/01/23 09:35*	*11/01/23 16:31*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-35134-2
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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			11/01/23 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/01/23 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		11/01/23 10:31	11/01/23 15:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/01/23 10:31	11/01/23 15:36	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/01/23 10:31	11/01/23 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*11/01/23 10:31*	*11/01/23 15:36*	*1*
o-Terphenyl	*120*		*70 - 130*	*11/01/23 10:31*	*11/01/23 15:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.0**		4.98		mg/Kg			11/02/23 19:14	1

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-35134-3
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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		11/01/23 09:35	11/01/23 16:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/23 09:35	11/01/23 16:51	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		11/01/23 09:35	11/01/23 16:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/23 09:35	11/01/23 16:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/23 09:35	11/01/23 16:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/23 09:35	11/01/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/01/23 09:35*	*11/01/23 16:51*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/01/23 09:35*	*11/01/23 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			11/01/23 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	<50.3	U	50.3		mg/Kg			11/01/23 16:21	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	<50.3	U	50.3		mg/Kg		11/01/23 10:31	11/01/23 16:21	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/01/23 10:31	11/01/23 16:21	1

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-35134-3
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/01/23 10:31	11/01/23 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*11/01/23 10:31*	*11/01/23 16:21*	*1*
o-Terphenyl	*127*		*70 - 130*	*11/01/23 10:31*	*11/01/23 16:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.6**		5.04		mg/Kg			11/02/23 19:21	1

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-35134-4
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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		11/02/23 08:43	11/02/23 11:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/02/23 08:43	11/02/23 11:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/02/23 08:43	11/02/23 11:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/02/23 08:43	11/02/23 11:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/02/23 08:43	11/02/23 11:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/02/23 08:43	11/02/23 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*11/02/23 08:43*	*11/02/23 11:58*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/02/23 08:43*	*11/02/23 11:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/02/23 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			11/01/23 16:43	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	<50.3	U	50.3		mg/Kg		11/01/23 10:31	11/01/23 16:43	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		11/01/23 10:31	11/01/23 16:43	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/01/23 10:31	11/01/23 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*11/01/23 10:31*	*11/01/23 16:43*	*1*
o-Terphenyl	*126*		*70 - 130*	*11/01/23 10:31*	*11/01/23 16:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.1**		5.02		mg/Kg			11/02/23 19:41	1

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-35134-5
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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		11/02/23 08:43	11/02/23 12:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/02/23 08:43	11/02/23 12:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/02/23 08:43	11/02/23 12:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/02/23 08:43	11/02/23 12:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/02/23 08:43	11/02/23 12:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/02/23 08:43	11/02/23 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/02/23 08:43*	*11/02/23 12:19*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/02/23 08:43*	*11/02/23 12:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/02/23 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/01/23 17:05	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		11/01/23 10:31	11/01/23 17:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/01/23 10:31	11/01/23 17:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/01/23 10:31	11/01/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*11/01/23 10:31*	*11/01/23 17:05*	*1*
o-Terphenyl	*126*		*70 - 130*	*11/01/23 10:31*	*11/01/23 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.3**		4.96		mg/Kg			11/02/23 19:47	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-35134-6
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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		11/02/23 08:43	11/02/23 12:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/02/23 08:43	11/02/23 12:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/02/23 08:43	11/02/23 12:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/02/23 08:43	11/02/23 12:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/02/23 08:43	11/02/23 12:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/02/23 08:43	11/02/23 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/02/23 08:43*	*11/02/23 12:39*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/02/23 08:43*	*11/02/23 12:39*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-35134-6
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/02/23 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/01/23 17:27	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	<49.6	U	49.6		mg/Kg		11/01/23 10:31	11/01/23 17:27	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		11/01/23 10:31	11/01/23 17:27	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/01/23 10:31	11/01/23 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*11/01/23 10:31*	*11/01/23 17:27*	*1*
o-Terphenyl	*120*		*70 - 130*	*11/01/23 10:31*	*11/01/23 17:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.3**		4.96		mg/Kg			11/02/23 20:07	1

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-35134-7
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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		11/02/23 08:43	11/02/23 12:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/02/23 08:43	11/02/23 12:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/02/23 08:43	11/02/23 12:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/02/23 08:43	11/02/23 12:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/02/23 08:43	11/02/23 12:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/02/23 08:43	11/02/23 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/02/23 08:43*	*11/02/23 12:59*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*11/02/23 08:43*	*11/02/23 12:59*	*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			11/02/23 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			11/01/23 17:49	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	<50.2	U	50.2		mg/Kg		11/01/23 10:31	11/01/23 17:49	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		11/01/23 10:31	11/01/23 17:49	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-35134-7
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/01/23 10:31	11/01/23 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*11/01/23 10:31*	*11/01/23 17:49*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*11/01/23 10:31*	*11/01/23 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.1**		5.03		mg/Kg			11/02/23 20:14	1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-35134-8
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/02/23 08:43	11/02/23 13:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/02/23 08:43	11/02/23 13:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/02/23 08:43	11/02/23 13:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/02/23 08:43	11/02/23 13:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/02/23 08:43	11/02/23 13:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/02/23 08:43	11/02/23 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/02/23 08:43*	*11/02/23 13:20*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/02/23 08:43*	*11/02/23 13:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/02/23 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/01/23 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		11/01/23 10:31	11/01/23 18:12	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		11/01/23 10:31	11/01/23 18:12	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/01/23 10:31	11/01/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*11/01/23 10:31*	*11/01/23 18:12*	*1*
o-Terphenyl	*125*		*70 - 130*	*11/01/23 10:31*	*11/01/23 18:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.7**		5.04		mg/Kg			11/02/23 20:20	1

Client Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (1.5')

Lab Sample ID: 880-35134-9
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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		11/02/23 08:43	11/02/23 13:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/02/23 08:43	11/02/23 13:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/02/23 08:43	11/02/23 13:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/02/23 08:43	11/02/23 13:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/02/23 08:43	11/02/23 13:40	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/02/23 08:43	11/02/23 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/02/23 08:43*	*11/02/23 13:40*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*11/02/23 08:43*	*11/02/23 13:40*	*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			11/02/23 13:40	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			11/01/23 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		11/01/23 10:31	11/01/23 18:33	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		11/01/23 10:31	11/01/23 18:33	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/01/23 10:31	11/01/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*11/01/23 10:31*	*11/01/23 18:33*	*1*
o-Terphenyl	*121*		*70 - 130*	*11/01/23 10:31*	*11/01/23 18:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.1**		5.02		mg/Kg			11/02/23 20:27	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
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)
880-35121-A-1-B MS	Matrix Spike	103	118
880-35121-A-1-C MSD	Matrix Spike Duplicate	98	98
880-35134-1	CS-1 (1.5')	102	114
880-35134-2	CS-2 (1.5')	102	115
880-35134-3	CS-3 (1.5')	101	113
880-35134-4	CS-4 (1.5')	83	106
880-35134-4 MS	CS-4 (1.5')	102	104
880-35134-4 MSD	CS-4 (1.5')	91	99
880-35134-5	SW-1 (1.5')	99	109
880-35134-6	SW-2 (1.5')	94	109
880-35134-7	SW-3 (1.5')	93	116
880-35134-8	SW-4 (1.5')	105	113
880-35134-9	SW-5 (1.5')	95	117
LCS 880-65962/1-A	Lab Control Sample	97	109
LCS 880-66035/1-A	Lab Control Sample	95	104
LCSD 880-65962/2-A	Lab Control Sample Dup	106	107
LCSD 880-66035/2-A	Lab Control Sample Dup	102	106
MB 880-65962/5-A	Method Blank	105	150 S1+
MB 880-66035/5-A	Method Blank	110	144 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-35073-A-25-D MS	Matrix Spike	134 S1+	116
880-35073-A-25-E MSD	Matrix Spike Duplicate	138 S1+	118
880-35134-1	CS-1 (1.5')	136 S1+	128
880-35134-2	CS-2 (1.5')	129	120
880-35134-3	CS-3 (1.5')	137 S1+	127
880-35134-4	CS-4 (1.5')	134 S1+	126
880-35134-5	SW-1 (1.5')	136 S1+	126
880-35134-6	SW-2 (1.5')	131 S1+	120
880-35134-7	SW-3 (1.5')	154 S1+	135 S1+
880-35134-8	SW-4 (1.5')	130	125
880-35134-9	SW-5 (1.5')	126	121
LCS 880-65965/2-A	Lab Control Sample	103	116
LCSD 880-65965/3-A	Lab Control Sample Dup	103	109
MB 880-65965/1-A	Method Blank	225 S1+	224 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65962/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65954 — **Prep Batch: 65962**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/23 09:35	11/01/23 13:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/23 09:35	11/01/23 13:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/23 09:35	11/01/23 13:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/23 09:35	11/01/23 13:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/23 09:35	11/01/23 13:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/23 09:35	11/01/23 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/01/23 09:35*	*11/01/23 13:18*	*1*
1,4-Difluorobenzene (Surr)	*150*	*S1+*	*70 - 130*	*11/01/23 09:35*	*11/01/23 13:18*	*1*

Lab Sample ID: LCS 880-65962/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65954 — **Prep Batch: 65962**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1111		mg/Kg		111	70 - 130
Toluene	0.100	0.09242		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09005		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.2045		mg/Kg		102	70 - 130
o-Xylene	0.100	0.09676		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-65962/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65954 — **Prep Batch: 65962**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09826		mg/Kg		98	70 - 130	12	35
Toluene	0.100	0.07905		mg/Kg		79	70 - 130	16	35
Ethylbenzene	0.100	0.06910	*-	mg/Kg		69	70 - 130	26	35
m-Xylene & p-Xylene	0.200	0.1566		mg/Kg		78	70 - 130	27	35
o-Xylene	0.100	0.07738		mg/Kg		77	70 - 130	22	35

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

Lab Sample ID: 880-35121-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65954 — **Prep Batch: 65962**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1074		mg/Kg		107	70 - 130
Toluene	<0.00199	U	0.100	0.1002		mg/Kg		100	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35121-A-1-B MS
Matrix: Solid
Analysis Batch: 65954

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65962

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U *-	0.100	0.09214		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2199		mg/Kg		110	70 - 130
o-Xylene	<0.00199	U	0.100	0.1044		mg/Kg		104	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: 880-35121-A-1-C MSD
Matrix: Solid
Analysis Batch: 65954

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65962

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0992	0.09353		mg/Kg		94	70 - 130	14	35
Toluene	<0.00199	U	0.0992	0.08523		mg/Kg		86	70 - 130	16	35
Ethylbenzene	<0.00199	U *-	0.0992	0.07792		mg/Kg		79	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1744		mg/Kg		88	70 - 130	23	35
o-Xylene	<0.00199	U	0.0992	0.08390		mg/Kg		85	70 - 130	22	35

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

Lab Sample ID: MB 880-66035/5-A
Matrix: Solid
Analysis Batch: 66027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/23 08:43	11/02/23 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/02/23 08:43	11/02/23 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/02/23 08:43*	*11/02/23 11:29*	*1*
1,4-Difluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*11/02/23 08:43*	*11/02/23 11:29*	*1*

Lab Sample ID: LCS 880-66035/1-A
Matrix: Solid
Analysis Batch: 66027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09947		mg/Kg		99	70 - 130
Toluene	0.100	0.08623		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08715		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1907		mg/Kg		95	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-66035/1-A
Matrix: Solid
Analysis Batch: 66027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66035

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.08967		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-66035/2-A
Matrix: Solid
Analysis Batch: 66027

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66035

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1054		mg/Kg		105	70 - 130	6	35
Toluene			0.100	0.08968		mg/Kg		90	70 - 130	4	35
Ethylbenzene			0.100	0.09339		mg/Kg		93	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2051		mg/Kg		103	70 - 130	7	35
o-Xylene			0.100	0.09722		mg/Kg		97	70 - 130	8	35

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

Lab Sample ID: 880-35134-4 MS
Matrix: Solid
Analysis Batch: 66027

Client Sample ID: CS-4 (1.5')
Prep Type: Total/NA
Prep Batch: 66035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.1066		mg/Kg		107	70 - 130		
Toluene	<0.00199	U	0.0996	0.09336		mg/Kg		94	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.09136		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2067		mg/Kg		104	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.09830		mg/Kg		98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-35134-4 MSD
Matrix: Solid
Analysis Batch: 66027

Client Sample ID: CS-4 (1.5')
Prep Type: Total/NA
Prep Batch: 66035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1091		mg/Kg		109	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.09621		mg/Kg		96	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.100	0.08962		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2017		mg/Kg		100	70 - 130	2	35
o-Xylene	<0.00199	U	0.100	0.09642		mg/Kg		96	70 - 130	2	35

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35134-4 MSD
Matrix: Solid
Analysis Batch: 66027

Client Sample ID: CS-4 (1.5')
Prep Type: Total/NA
Prep Batch: 66035

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

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

Lab Sample ID: MB 880-65965/1-A
Matrix: Solid
Analysis Batch: 65945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65965

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		11/01/23 08:00	11/01/23 08:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/01/23 08:00	11/01/23 08:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/23 08:00	11/01/23 08:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	225	S1+	70 - 130	11/01/23 08:00	11/01/23 08:37	1
o-Terphenyl	224	S1+	70 - 130	11/01/23 08:00	11/01/23 08:37	1

Lab Sample ID: LCS 880-65965/2-A
Matrix: Solid
Analysis Batch: 65945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65965

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	907.3		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	945.7		mg/Kg		95	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-65965/3-A
Matrix: Solid
Analysis Batch: 65945

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65965

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	880.5		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	910.0		mg/Kg		91	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35073-A-25-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65945 — **Prep Batch: 65965**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	1215		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	998	1197		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*134*	*S1+*	*70 - 130*
o-Terphenyl	*116*		*70 - 130*

Lab Sample ID: 880-35073-A-25-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 65945 — **Prep Batch: 65965**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	1223		mg/Kg		119	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.3	U	998	1239		mg/Kg		122	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*138*	*S1+*	*70 - 130*
o-Terphenyl	*118*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65964/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 65983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/02/23 17:29	1

Lab Sample ID: LCS 880-65964/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 65983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.4		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-65964/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 65983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	265.1		mg/Kg		106	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-35134-3 MS
Matrix: Solid
Analysis Batch: 65983

Client Sample ID: CS-3 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	47.6		252	313.1		mg/Kg		105	90 - 110		

Lab Sample ID: 880-35134-3 MSD
Matrix: Solid
Analysis Batch: 65983

Client Sample ID: CS-3 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	47.6		252	312.0		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 65954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-1	CS-1 (1.5')	Total/NA	Solid	8021B	65962
880-35134-2	CS-2 (1.5')	Total/NA	Solid	8021B	65962
880-35134-3	CS-3 (1.5')	Total/NA	Solid	8021B	65962
MB 880-65962/5-A	Method Blank	Total/NA	Solid	8021B	65962
LCS 880-65962/1-A	Lab Control Sample	Total/NA	Solid	8021B	65962
LCSD 880-65962/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65962
880-35121-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	65962
880-35121-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	65962

Prep Batch: 65962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-35134-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-35134-3	CS-3 (1.5')	Total/NA	Solid	5035	
MB 880-65962/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65962/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65962/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35121-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-35121-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-4	CS-4 (1.5')	Total/NA	Solid	8021B	66035
880-35134-5	SW-1 (1.5')	Total/NA	Solid	8021B	66035
880-35134-6	SW-2 (1.5')	Total/NA	Solid	8021B	66035
880-35134-7	SW-3 (1.5')	Total/NA	Solid	8021B	66035
880-35134-8	SW-4 (1.5')	Total/NA	Solid	8021B	66035
880-35134-9	SW-5 (1.5')	Total/NA	Solid	8021B	66035
MB 880-66035/5-A	Method Blank	Total/NA	Solid	8021B	66035
LCS 880-66035/1-A	Lab Control Sample	Total/NA	Solid	8021B	66035
LCSD 880-66035/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66035
880-35134-4 MS	CS-4 (1.5')	Total/NA	Solid	8021B	66035
880-35134-4 MSD	CS-4 (1.5')	Total/NA	Solid	8021B	66035

Prep Batch: 66035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-4	CS-4 (1.5')	Total/NA	Solid	5035	
880-35134-5	SW-1 (1.5')	Total/NA	Solid	5035	
880-35134-6	SW-2 (1.5')	Total/NA	Solid	5035	
880-35134-7	SW-3 (1.5')	Total/NA	Solid	5035	
880-35134-8	SW-4 (1.5')	Total/NA	Solid	5035	
880-35134-9	SW-5 (1.5')	Total/NA	Solid	5035	
MB 880-66035/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66035/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66035/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35134-4 MS	CS-4 (1.5')	Total/NA	Solid	5035	
880-35134-4 MSD	CS-4 (1.5')	Total/NA	Solid	5035	

Analysis Batch: 66107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-1	CS-1 (1.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 66107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	
880-35134-3	CS-3 (1.5')	Total/NA	Solid	Total BTEX	
880-35134-4	CS-4 (1.5')	Total/NA	Solid	Total BTEX	
880-35134-5	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-35134-6	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-35134-7	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-35134-8	SW-4 (1.5')	Total/NA	Solid	Total BTEX	
880-35134-9	SW-5 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 65945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	65965
880-35134-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	65965
880-35134-3	CS-3 (1.5')	Total/NA	Solid	8015B NM	65965
880-35134-4	CS-4 (1.5')	Total/NA	Solid	8015B NM	65965
880-35134-5	SW-1 (1.5')	Total/NA	Solid	8015B NM	65965
880-35134-6	SW-2 (1.5')	Total/NA	Solid	8015B NM	65965
880-35134-7	SW-3 (1.5')	Total/NA	Solid	8015B NM	65965
880-35134-8	SW-4 (1.5')	Total/NA	Solid	8015B NM	65965
880-35134-9	SW-5 (1.5')	Total/NA	Solid	8015B NM	65965
MB 880-65965/1-A	Method Blank	Total/NA	Solid	8015B NM	65965
LCS 880-65965/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65965
LCSD 880-65965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65965
880-35073-A-25-D MS	Matrix Spike	Total/NA	Solid	8015B NM	65965
880-35073-A-25-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	65965

Prep Batch: 65965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-35134-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-35134-3	CS-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-35134-4	CS-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-35134-5	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-35134-6	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-35134-7	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-35134-8	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-35134-9	SW-5 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-65965/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65965/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65965/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35073-A-25-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-35073-A-25-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-1	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-35134-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-35134-3	CS-3 (1.5')	Total/NA	Solid	8015 NM	
880-35134-4	CS-4 (1.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 66065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-5	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-35134-6	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-35134-7	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-35134-8	SW-4 (1.5')	Total/NA	Solid	8015 NM	
880-35134-9	SW-5 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 65964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-35134-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-35134-3	CS-3 (1.5')	Soluble	Solid	DI Leach	
880-35134-4	CS-4 (1.5')	Soluble	Solid	DI Leach	
880-35134-5	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-35134-6	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-35134-7	SW-3 (1.5')	Soluble	Solid	DI Leach	
880-35134-8	SW-4 (1.5')	Soluble	Solid	DI Leach	
880-35134-9	SW-5 (1.5')	Soluble	Solid	DI Leach	
MB 880-65964/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65964/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65964/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35134-3 MS	CS-3 (1.5')	Soluble	Solid	DI Leach	
880-35134-3 MSD	CS-3 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 65983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35134-1	CS-1 (1.5')	Soluble	Solid	300.0	65964
880-35134-2	CS-2 (1.5')	Soluble	Solid	300.0	65964
880-35134-3	CS-3 (1.5')	Soluble	Solid	300.0	65964
880-35134-4	CS-4 (1.5')	Soluble	Solid	300.0	65964
880-35134-5	SW-1 (1.5')	Soluble	Solid	300.0	65964
880-35134-6	SW-2 (1.5')	Soluble	Solid	300.0	65964
880-35134-7	SW-3 (1.5')	Soluble	Solid	300.0	65964
880-35134-8	SW-4 (1.5')	Soluble	Solid	300.0	65964
880-35134-9	SW-5 (1.5')	Soluble	Solid	300.0	65964
MB 880-65964/1-A	Method Blank	Soluble	Solid	300.0	65964
LCS 880-65964/2-A	Lab Control Sample	Soluble	Solid	300.0	65964
LCSD 880-65964/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65964
880-35134-3 MS	CS-3 (1.5')	Soluble	Solid	300.0	65964
880-35134-3 MSD	CS-3 (1.5')	Soluble	Solid	300.0	65964

Lab Chronicle

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-35134-1
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	65962	11/01/23 09:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65954	11/01/23 16:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/01/23 16:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			66065	11/01/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 15:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 19:08	CH	EET MID

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-35134-2
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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	65962	11/01/23 09:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65954	11/01/23 16:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/01/23 16:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			66065	11/01/23 15:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 15:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 19:14	CH	EET MID

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-35134-3
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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	65962	11/01/23 09:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65954	11/01/23 16:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/01/23 16:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			66065	11/01/23 16:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 16:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 19:21	CH	EET MID

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-35134-4
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	66035	11/02/23 08:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/02/23 11:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/02/23 11:58	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-35134-4
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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			66065	11/01/23 16:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 16:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 19:41	CH	EET MID

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-35134-5
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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	66035	11/02/23 08:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/02/23 12:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/02/23 12:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			66065	11/01/23 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 19:47	CH	EET MID

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-35134-6
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	66035	11/02/23 08:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/02/23 12:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/02/23 12:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			66065	11/01/23 17:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 17:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 20:07	CH	EET MID

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-35134-7
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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	66035	11/02/23 08:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/02/23 12:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/02/23 12:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			66065	11/01/23 17:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 17:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-35134-7
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 20:14	CH	EET MID

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-35134-8
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	66035	11/02/23 08:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/02/23 13:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/02/23 13:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			66065	11/01/23 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 18:12	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 20:20	CH	EET MID

Client Sample ID: SW-5 (1.5')

Lab Sample ID: 880-35134-9
Matrix: Solid
Date Collected: 10/31/23 00:00
Date Received: 11/01/23 09:27

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	66035	11/02/23 08:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66027	11/02/23 13:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			66107	11/02/23 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			66065	11/01/23 18:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65965	11/01/23 10:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65945	11/01/23 18:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	65964	11/01/23 10:27	SA	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	65983	11/02/23 20:27	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
Job ID: 880-35134-1
Project/Site: Graham Cracker 16 State 007H (05.13.23)
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
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: Graham Cracker 16 State 007H (05.13.23)

Job ID: 880-35134-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35134-1	CS-1 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27
880-35134-2	CS-2 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27
880-35134-3	CS-3 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27
880-35134-4	CS-4 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27
880-35134-5	SW-1 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27
880-35134-6	SW-2 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27
880-35134-7	SW-3 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27
880-35134-8	SW-4 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27
880-35134-9	SW-5 (1.5')	Solid	10/31/23 00:00	11/01/23 09:27

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

880-35134 Chain of Custody
11/3/2023

Page 1 of 1

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

Work Order Comments

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

Project Name	Graham Cracker 16 State 007H (05 13 23)	Turn Around	☐ Routine ☑ Rush
Project Number	2121	Due Date	48 HR
Project Location	Eddy County, New Mexico		
Sampler's Name:	JR		
PO #:			

SAMPLE RECEIPT	Temp Blank	Yes (No)	Wet Ice	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:		IR8
Cooler Custody Seals.	Yes No (N/A)	Correction Factor:		+.20
Sample Custody Seals.	Yes No (N/A)	Temperature Reading:		-.26
Total Containers.		Corrected Temperature		-.24

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
CS-1 (1 5')	10/31/2023		X		Comp	1	X	X	X	
CS-2 (1 5')	10/31/2023		X		Comp	1	X	X	X	
CS-3 (1 5')	10/31/2023		X		Comp	1	X	X	X	
CS-4 (1 5')	10/31/2023		X		Comp	1	X	X	X	
SW-1 (1 5')	10/31/2023		X		Comp	1	X	X	X	
SW-2 (1 5')	10/31/2023		X		Comp	1	X	X	X	
SW-3 (1 5')	10/31/2023		X		Comp	1	X	X	X	
SW-4 (1 5')	10/31/2023		X		Comp	1	X	X	X	
SW-5 (1 5')	10/31/2023		X		Comp	1	X	X	X	

Preservative Codes

None NO — DI Water: H_2O
Cool Cool — MeOH Me
HCL. HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	11-1-23 927	[signature]	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35134-1
SDG Number: Eddy County, New Mexico

Login Number: 35134
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

APPENDIX F

CARMONA RESOURCES

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

(A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
(B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
(C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

From: Conner Moehring
Sent: Friday, October 27, 2023 4:20 PM
To: eco@slo.state.nm.us
Cc: Mike Carmona; Devin Dominguez; Clint Merritt
Subject: COG - Graham Cracker 16 State 007H (05.13.23) - Sampling Notification

Good Afternoon,

This email is a notification for confirmation sampling for the COG Graham Cracker 16 State 007H (05.13.23). We will be kicking off Remediation activities on Monday the 30th. Sampling is scheduled to begin on Tuesday, October 31st, around 3:00 p.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples. Once the confirmation samples have been received and all samples are below the regulatory limits. We will reseed the disturbed areas with the appropriate SLO seed mixture. Also attached is the cover page from the arch survey, clearing us to work.

nAPP2314538444

Please call if you have any questions.

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

CARMONA RESOURCES

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	0.1	100.0%
Totals for Area of Interest		**0.1**	**100.0%**

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 14 inches
Mean annual air temperature: 60 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Upton
Percent of map unit: 1 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Atoka
Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

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 325453

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2314538444**
Incident Name	**NAPP2314538444 GRAHAM CRACKER 16 STATE 007H @ 0**
Incident Type	**Release Other**
Incident Status	**Reclamation Report Received**
Incident Facility	**[fAPP2203933496] Graham Cracker 16 St 2H Battery**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GRAHAM CRACKER 16 STATE 007H
Date Release Discovered	05/13/2023
Surface Owner	Federal

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	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Crude Oil | Released: 1 BBL | Recovered: 1 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 1 BBL | Recovered: 0 BBL | Lost: 1 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.*

District I
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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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	*Unavailable.*
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/21/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	792
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	341
GRO+DRO (EPA SW-846 Method 8015M)	228
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	10/27/2023
On what date will (or did) the final sampling or liner inspection occur	10/31/2023
On what date will (or was) the remediation complete(d)	11/03/2023
What is the estimated surface area (in square feet) that will be reclaimed	720
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	720
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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
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.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(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	LUSK DEEP UNIT A #1 BATTERY [fAPP2204035753]
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	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
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 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: 03/21/2024
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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**325462**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**09/05/2023**
What was the (estimated) number of samples that were to be gathered	**9**
What was the sampling surface area in square feet	**720**

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	720
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	720
What was the total volume (in cubic yards) reclaimed	40
Summarize any additional remediation activities not included by answers (above)	All confirmation sample locations were below regulatory thresholds for TPH, BTEX, and chloride.

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.

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	720
What was the total volume of replacement material (in cubic yards) for this site	40
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a 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.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	11/03/2023
Summarize any additional reclamation activities not included by answers (above)	After remediation activities, the backfilled areas were reseeded with double the amount of SLO Sandy Loam (SL) Seed Mixture.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
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QUESTIONS (continued)

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	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 325453

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 325453
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	Reclamation approved but note going forward that at least one representative 5-point composite sample needs to be collected from the backfill and laboratory results submitted with your report for reclamation to be approved.	5/16/2024