

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Copperhead Fee A 003H (05.27.23)
Incident #: NAPP2317028374
Eddy County, New Mexico
Unit G Sec 31 T26S R29E
32.00018°, -104.02198°

Produced Water Release
Point of Release: Leaking Thread due to Corrosion
Release Date: 05.27.23
Volume Released: 1.7 Barrels of Produced Water
Volume Recovered: 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



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October 4, 2023

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

**Re: Closure Report
Copperhead Fee A 003H (05.27.23)
Concho Operating, LLC
Site Location: Unit G, S31, T26S, R29E
(Lat 32.00018°, Long -104.02198°)
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 Copperhead Fee A 003H. The site is located at 32.00018, -104.02198 within Unit G, S31, T26S, R29E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 27, 2023, caused by a leaking thread due to corrosion. It resulted in approximately one point seven (1.7) barrels of produced water being released and zero (0) barrels of produced water recovered. The impacted area occurred off pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 2.99 miles Northwest of the site in S27, T26S, R28E and was drilled in 2017. The well has a reported depth to groundwater of 145 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

On April 25, 2022, Carmona Resources, LLC was onsite to drill a groundwater determination bore to 55' below ground surface. The groundwater determination bore is located approximately .58 miles northwest of the site at 32.002359°, -104.031693° in S31, T26S, and R29E. The bore was left open for 72 hours and tagged with a water level meter. The bore has shown no signs of water at a depth of 55' below the ground surface (bgs). A copy of the groundwater determination bore log is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Site Assessment Activities

Trenching Assessment

On August 24, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) trench points (T-1 through T-3) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 6' 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 the areas of T-1 and T-2. The area of T-3 was not delineated vertically. Refer to Table 1.

Horizontal Delineation

The areas of H-2 through H-4 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. The area of H-1 showed a high concentration of chloride level at 1,530 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 September 6, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of T-1 was excavated to a depth of 4.5', the area of T-2 was excavated to a depth of 3', and the area of T-3 was excavated to a depth of 5.5' to ensure removal of all impacted material. Horizontal-1, which showed high concentrations of chlorides during the initial assessment, was excavated and resampled to ensure the removal of all impacted material. A total of sixteen (16) confirmation floor samples were collected (CS-1 through CS-16), and eleven (11) sidewall samples (SW-1 through SW-11) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. 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.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 324 cubic yards of material were excavated and transported offsite for proper disposal.



6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

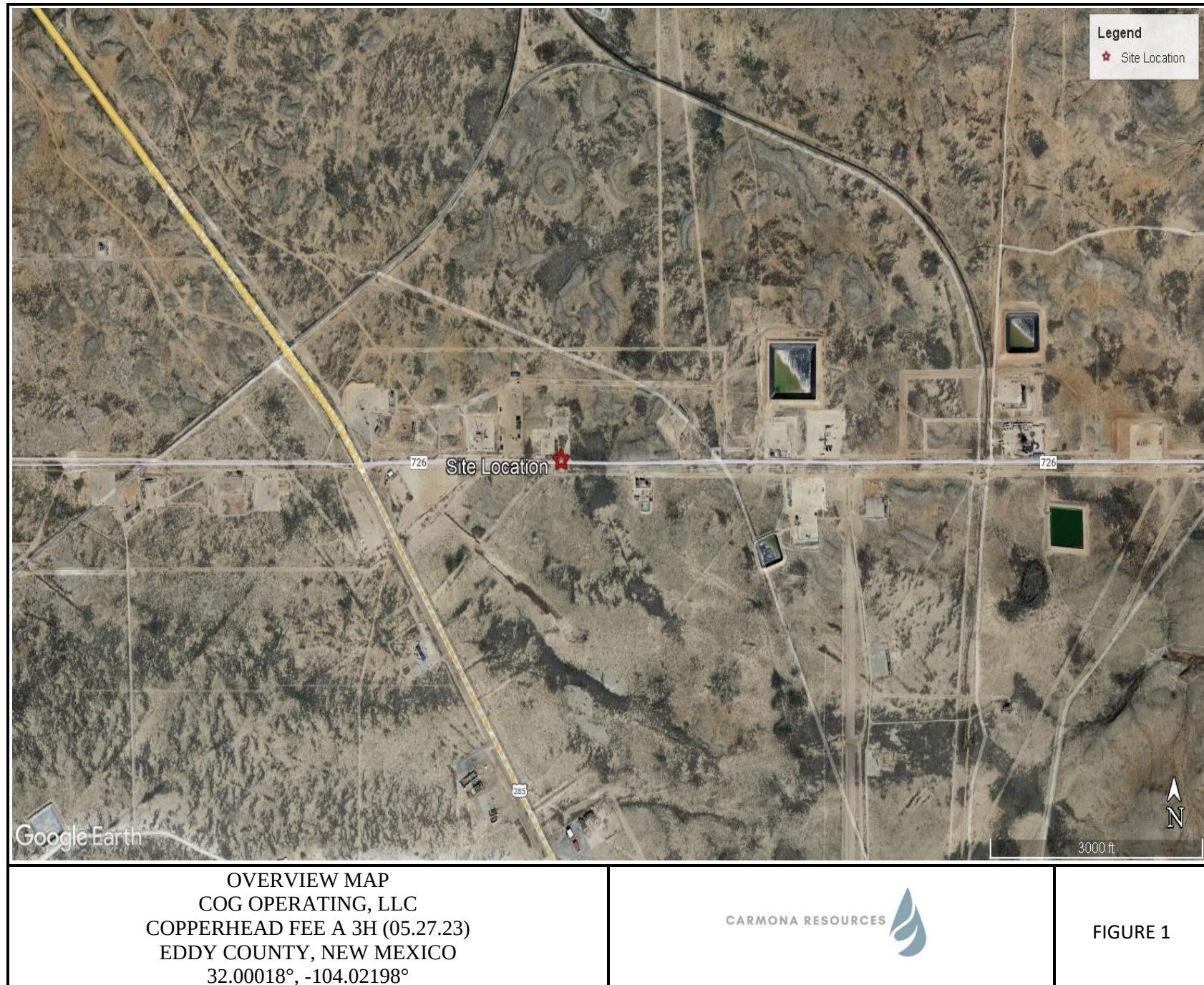
Mike Carmona
Environmental Manager

Devin Dominguez
Sr. Project Manager

FIGURES

CARMONA RESOURCES

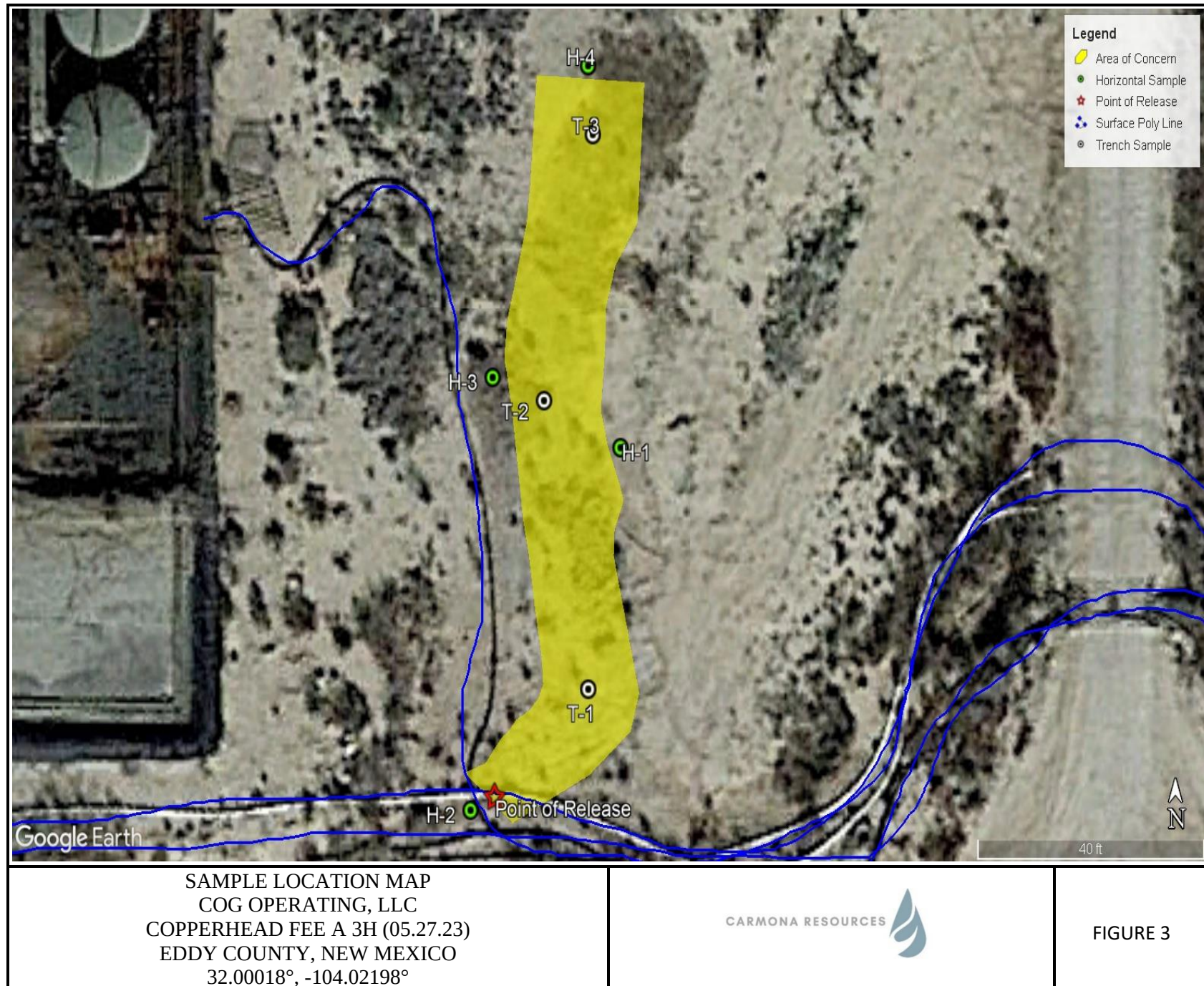






CARMONA RESOURCES

FIGURE 2





EXCAVATION MAP
 COG OPERATING, LLC
 COPPERHEAD FEE A 3H (05.27.23)
 EDDY COUNTY, NEW MEXICO
 32.00018°, -104.02198°



FIGURE 4

APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating, LLC
Copperhead Fee A 3H (05.27.23)
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						
T-1	8/24/2023	0-1	<49.5	<49.5	<49.5	<49.5	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	1,270
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,010
	"	2	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,940
	"	3	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	3,360
	"	4	<50.4	<50.4	<50.4	<50.4	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	7,280
	"	5	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	98.6
	"	6	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	140
T-2	8/24/2023	0-1	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	13,200
	"	1.5	<50.4	<50.4	<50.4	<50.4	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,780
	"	2	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	201
	"	3	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	89.6
	"	4	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	133
	"	5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	129
T-3	8/24/2023	0-1	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	801
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	177
	"	2	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	284
	"	3	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	4,810
	"	4	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,050
	"	5	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,310
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

(T) Trench Sample

Removed

Table 1
COG Operating, LLC
Copperhead Fee A 3H (05.27.23)
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	6/8/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,530
	8/24/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	114
H-2	6/8/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	252
H-3	6/8/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	179
H-4	6/8/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	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
(H) Horizontal Sample

Removed

Table 2
COG Operating, LLC
Copperhead Fee A 3H (5.27.23)
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	9/12/2023	4.5	<49.6	<49.6	<49.6	<49.6	0.0147	0.158	0.0172	0.0664	0.256	31.5
CS-2	9/12/2023	4.5	<50.3	88.3	<50.3	88.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	27.0
CS-3	9/12/2023	4.5	<50.1	69.9	<50.1	69.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.6
CS-4	9/12/2023	4.5	<50.5	62.2	<50.5	62.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	31.8
CS-5	9/12/2023	4.5	<49.9	76.6	<49.9	76.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	32.2
CS-6	9/12/2023	3.0	<49.8	68.0	<49.8	68.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	36.9
CS-7	9/12/2023	3.0	<49.7	68.8	<49.7	68.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	80.3
CS-8	9/12/2023	3.0	<50.3	68.0	<50.3	68.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.3
CS-9	9/12/2023	3.0	<50.1	68.8	<50.1	68.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	77.1
CS-10	9/12/2023	3.0	<50.5	70.0	<50.5	70.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	40.7
CS-11	9/12/2023	3.0	<50.0	58.0	<50.0	58.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	88.2
CS-12	9/12/2023	5.5	<49.9	64.4	<49.9	64.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	30.3
CS-13	9/12/2023	5.5	<49.6	71.7	<49.6	71.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.9
CS-14	9/12/2023	5.5	<49.6	63.9	<49.6	63.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	38.9
CS-15	9/12/2023	5.5	<50.3	63.9	<50.3	63.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	38.8
CS-16	9/12/2023	5.5	<50.2	69.2	<50.2	69.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	34.5
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

Table 2
COG Operating, LLC
Copperhead Fee A 3H (5.27.23)
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						
SW-1	9/12/2023	1.5	<50.5	61.6	<50.5	61.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	31.8
SW-2	9/12/2023	4.5	<50.0	60.3	<50.0	60.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	59.3
SW-3	9/12/2023	4.5	<49.9	61.8	<49.9	61.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	39.6
SW-4	9/12/2023	4.5	<49.7	61.4	<49.7	61.4	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	41.6
SW-5	9/12/2023	3.0	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	93.3
SW-6	9/12/2023	2.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	55.7
SW-7	9/12/2023	3.0	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	38.2
SW-8	9/12/2023	2.5	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	31.5
SW-9	9/12/2023	5.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	59.9
SW-10	9/12/2023	5.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	20.4
SW-11	9/12/2023	5.5	<49.5	<49.5	<49.5	<49.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	84.8
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
(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**Concho Operating, LLC****Photograph No. 1****Facility:** Copperhead Fee A 003H (05.27.23)**County:** Eddy County, New Mexico**Description:**

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

☉ 153°SE (T) LAT: 32.000394 LON: -104.022130 ±13ft ▲ 2909ft

**Photograph No. 2****Facility:** Copperhead Fee A 003H (05.27.23)**County:** Eddy County, New Mexico**Description:**

View Northwest, area of CS-6 and CS-11.

☉ 331°NW (T) LAT: 0.000000 LON: -104.022003 ±13ft ▲ 2909ft

**Photograph No. 3****Facility:** Copperhead Fee A 003H (05.27.23)**County:** Eddy County, New Mexico**Description:**

View South, area of CS-12 through CS-16.

☉ 194°S (T) LAT: 32.000593 LON: -104.022035 ±16ft ▲ 2911ft



APPENDIX C

CARMONA RESOURCES



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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☐ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health and the environment.	
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u></u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>06/20/2023</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacqueline Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 10/11/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

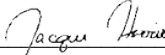
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 10/11/2023

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: _____

NAPP2317028374

L48 Spill Volume Estimate Form - Fill In Gray Cells													
Facility Name & Well Number(s):				Copperhead Fee A 3				Release Discovery Date & Time: 5.27.23					
Provide any known details about the event:				Flowline leak				Primary Cause (dropdown):		Secondary Cause (dropdown):			
				Recovered Volume (bbl.) (if available, not included in volume calculations)		Method of Determination (dropdown)		Release Type (dropdown):		> 1/2" of Rain in Last 24 Hours (dropdown):			
BU:		Permian		Asset Area:		DBW - Gypsum Land Complex		Field Measurement		Produced Water			
Known Volume (dropdown):				No									
Known Area (dropdown):				No									
Spill Calculation - Subsurface Spill - Rectangle										Remediation Recommendation			
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)					Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Current Rule of Thumb - RMR Handover Volume, (yd ³ .)
Rectangle A	40.0	10.0	2.0	Off-Pad	14.60%	11.87	1.73					3.09	750
Rectangle B						0.00						0.00	
Rectangle C						0.00						0.00	
Rectangle D						0.00						0.00	
Rectangle E						0.00						0.00	
Rectangle F						0.00						0.00	
Rectangle G						0.00						0.00	
Rectangle H						0.00						0.00	
Rectangle I						0.00						0.00	
Rectangle J						0.00						0.00	
Total Subsurface Volume Released:							1.7325					3.09	BU

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

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

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

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

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

CONDITIONS

Action 229913

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 229913
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/20/2023

Hello, Devin

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,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.490.0798 | michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Devin Dominguez <Ddominguez@carmonaresources.com>
Sent: Wednesday, September 6, 2023 7:51 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Conner Moehring <Cmoehring@carmonaresources.com>; jacqui.harris@conocophillips.com
Subject: [EXTERNAL] COG Copperhead Fee A 003H - Sampling Notification - Incident #NAPP2317028374

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

Good Morning,

This email serves as a notification for confirmation sampling on the COG Copperhead Fee A 003H. Sampling is scheduled to begin on Monday, September 11th around 8:00 a.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident #: NAPP2317028374

Devin Dominguez
310 West Wall Street, Suite 500
Midland Texas, 79701
M: 432-701-5475

APPENDIX D

CARMONA RESOURCES

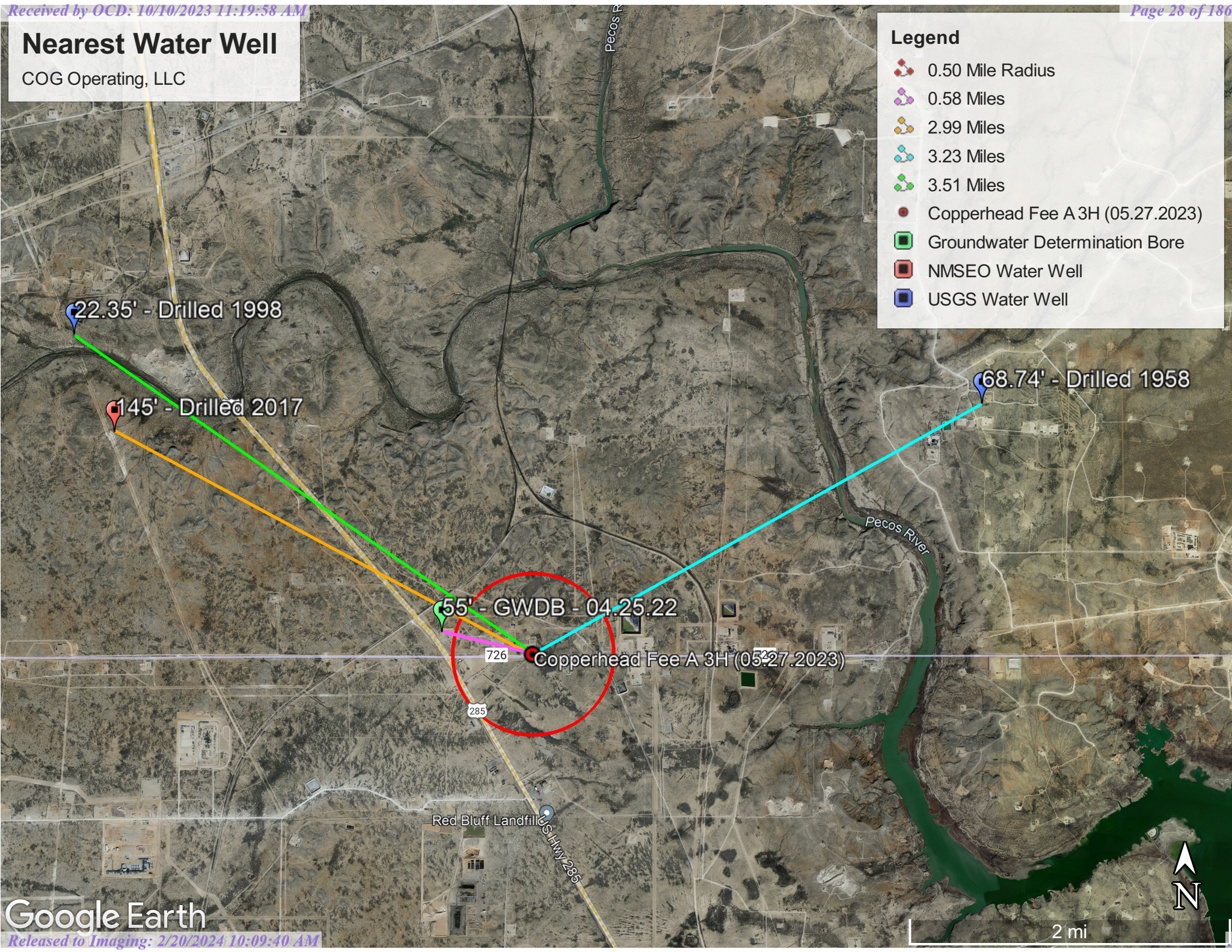


Nearest Water Well

COG Operating, LLC

Legend

- 0.50 Mile Radius
- 0.58 Miles
- 2.99 Miles
- 3.23 Miles
- 3.51 Miles
- Copperhead Fee A 3H (05.27.2023)
- Groundwater Determination Bore
- NMSEO Water Well
- USGS Water Well

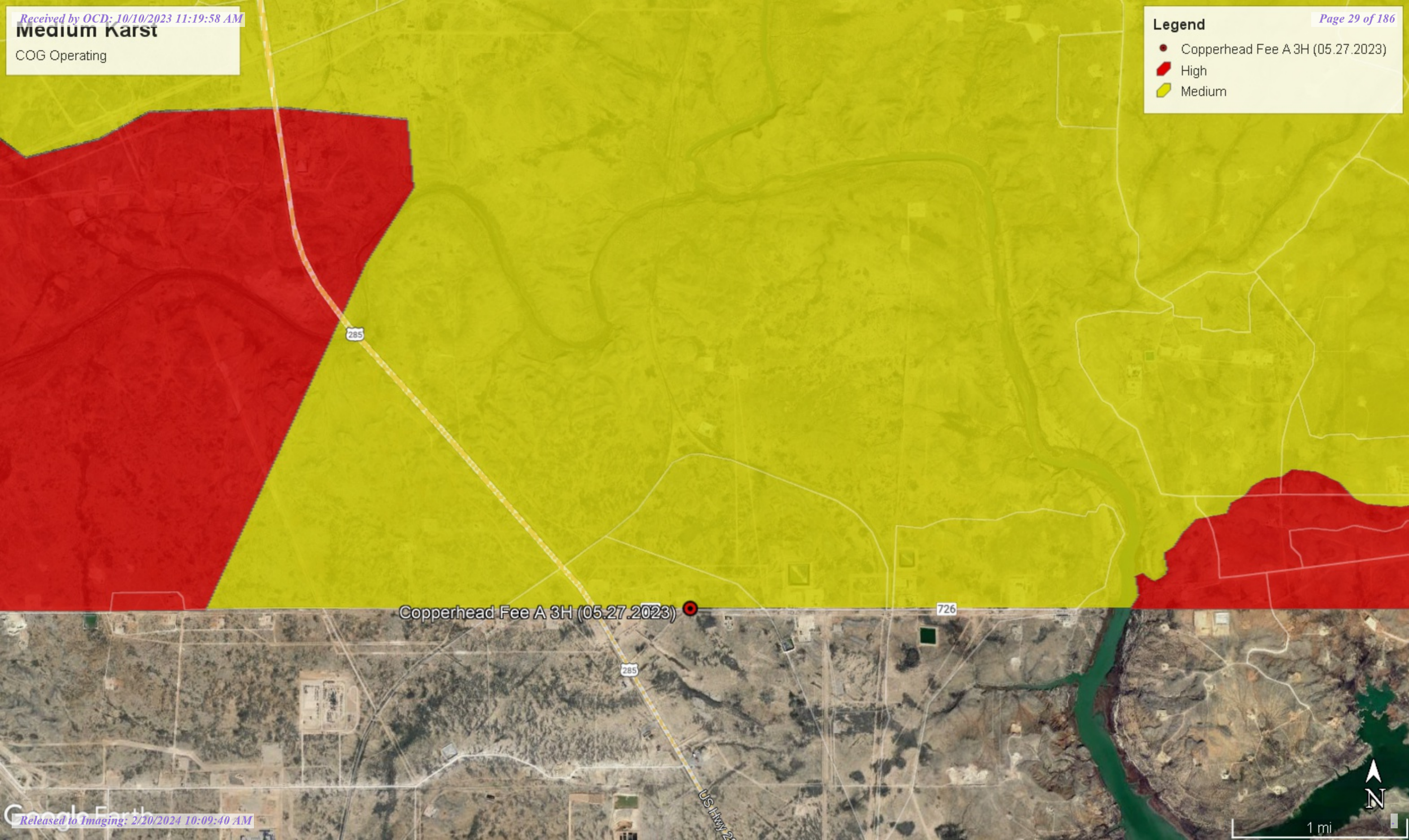


Medium Karst

COG Operating

Legend

- Copperhead Fee A 3H (05.27.2023)
- High
- Medium

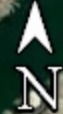


Copperhead Fee A 3H (05.27.2023)

726

285

US Hwy 285



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03605 POD1	CUB	ED		4	2	3	27	26S	29E	596990	3541983	4738	45	0	45
C 04022 POD2	CUB	ED		2	2	2	27	26S	28E	588106	3543082	4801	250	145	105
C 04630 POD1	CUB	ED		3	4	3	22	26S	29E	596792	3543275	5015			
C 04653 POD6	CUB	ED		4	4	4	22	26S	29E	597782	3543171	5864	74	67	7
C 04653 POD5	CUB	ED		4	4	4	22	26S	29E	597784	3543186	5871	72	67	5

Average Depth to Water: **69 feet**

Minimum Depth: **0 feet**

Maximum Depth: **145 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 592378.96

Northing (Y): 3540891.99

Radius: 6000

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

6/14/23 8:49 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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 POD2	2	2	2	27	26S	28E	588106	3543082 
Driller License: 1184		Driller Company:				WEST TEXAS WATER WELL SERVICE			
Driller Name: KEITH, RONNY									
Drill Start Date: 05/08/2017		Drill Finish Date:				05/12/2017		Plug Date:	
Log File Date: 06/05/2017		PCW Rev Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield: 60 GPM	
Casing Size: 12.25		Depth Well:				250 feet		Depth Water: 145 feet	
Water Bearing Stratifications:				Top	Bottom	Description			
				150	160	Sandstone/Gravel/Conglomerate			
				160	180	Sandstone/Gravel/Conglomerate			
				180	190	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				130	250				

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

6/14/23 9:01 AM

POINT OF DIVERSION SUMMARY

CARMONA RESOURCES



Project Name : COG - Copperhead Fee 31E CTB (01.14.22)
 Project No. : 1002
 Location : Eddy County, New Mexico
 Coordinates : 32.002359, -104.031693
 Elevation : 2,930'

Date : Monday, May 9, 2022
 Sampler : Lane Scarborough
 Driller : Scarborough Drilling
 Method : Air Rotary

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		50		(50') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)	
5		(5') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		55		(55') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)	
10		(10') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		60			
12		(12') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		65			
15		(15') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		70			
20		(20') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		75			
25		(25') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		80			
30		(30') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		85			
35		(35') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		90			
40		(40') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		95			
45		(45') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		105			
50							

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

Well gauged on 5/13/22 at 11:00 AM Central Time with no detection of groundwater or moisture



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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320126103562801

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

USGS 320126103562801 26S.29E.22.340

Eddy County, New Mexico
Latitude 32°01'22", Longitude 103°58'26" NAD27
Land-surface elevation 2,888 feet above NGVD29
The depth of the well is 80 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1958-08-18			D	62610	2819.26	NGVD29	1	Z		
1958-08-18			D	62611	2820.78	NAVD88	1	Z		
1958-08-18			D	72019	68.74		1	Z		

Explanation

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

Section	Code	Description
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels
URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320126103562801&agency_cd=USGS&format=html)



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Page Last Modified: 2023-06-14 10:54:42 EDT
0.28 0.24 nadww02

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	

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320145104041701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320145104041701 26S.28E.22.234431

Eddy County, New Mexico

Latitude 32°01'45", Longitude 104°04'17" NAD27

Land-surface elevation 2,980 feet above NGVD29

The depth of the well is 23.00 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1987-12-12		D	62610		2958.98	NGVD29	1		S	
1987-12-12		D	62611		2960.55	NAVD88	1		S	
1987-12-12		D	72019	21.02			1		S	
1998-01-22		D	62610		2957.65	NGVD29	1		S	
1998-01-22		D	62611		2959.22	NAVD88	1		S	
1998-01-22		D	72019	22.35			1		S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

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
Measuring agency				Not determined			
Source of measurement				Not determined			
Water-level approval status				A	Approved for publication -- Processing and review completed.		

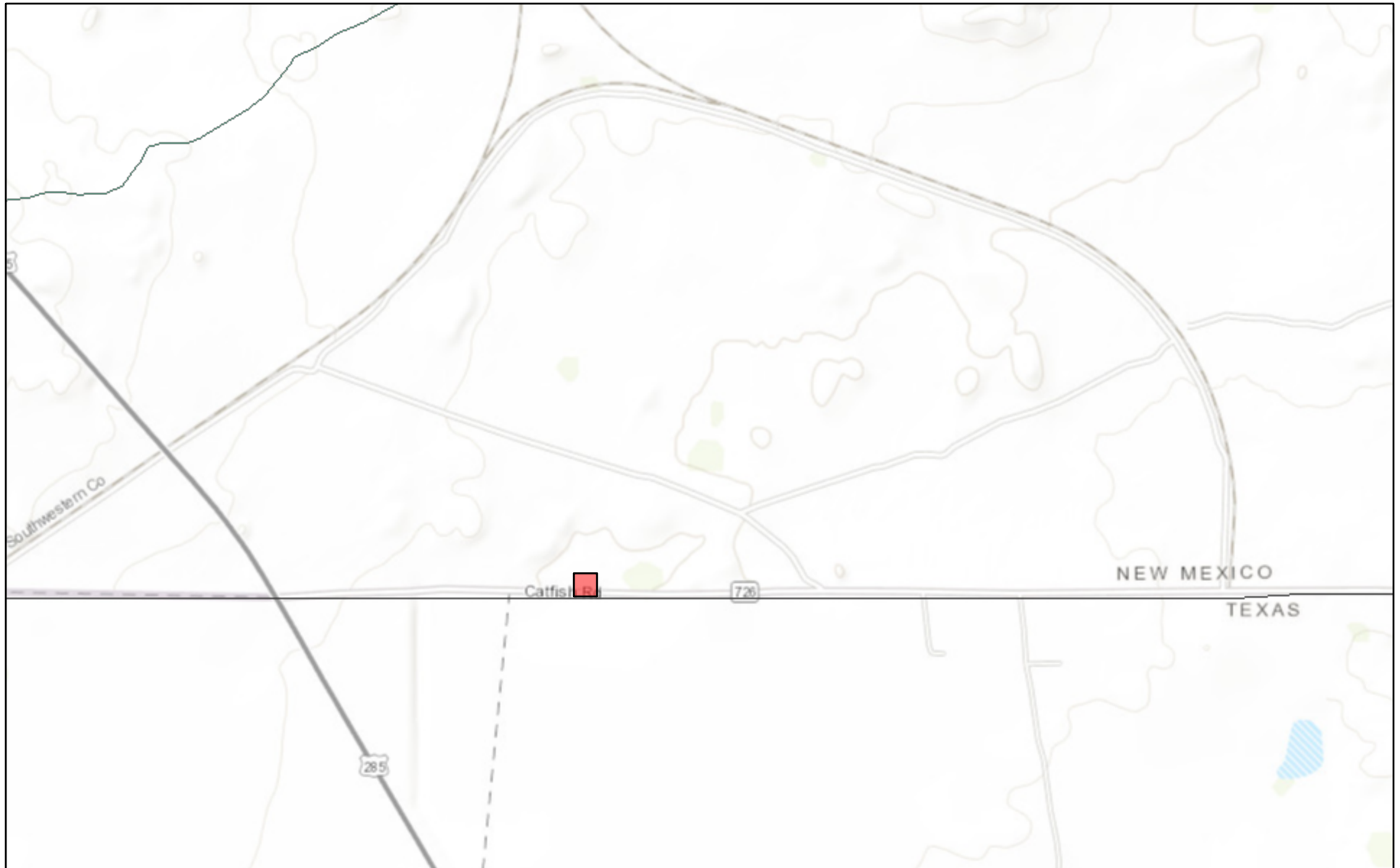
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URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320145104041701&agency_cd=USGS&format=html)

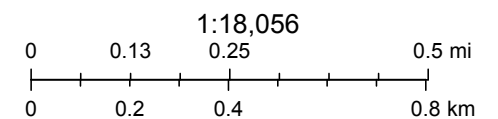


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0.29 0.25 nadww02

New Mexico NFHL Data



June 14, 2023



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





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/30/2023 9:34:00 AM

JOB DESCRIPTION

Copperhead Fee A 3H
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-32574-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/30/2023 9:34:00 AM

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

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Laboratory Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Table of Contents

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low 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
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: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Job ID: 880-32574-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-32574-1****Receipt**

The samples were received on 8/25/2023 3:22 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-32574-1), T-1 (1.5') (880-32574-2), T-1 (2') (880-32574-3), T-1 (3') (880-32574-4), T-1 (4') (880-32574-5), T-1 (5') (880-32574-6), T-1 (6') (880-32574-7), T-2 (0-1') (880-32574-8), T-2 (1.5') (880-32574-9), T-2 (2') (880-32574-10), T-2 (3') (880-32574-11), T-2 (4') (880-32574-12), T-2 (5') (880-32574-13), T-3 (0-1') (880-32574-14), T-3 (1.5') (880-32574-15), T-3 (2') (880-32574-16), T-3 (3') (880-32574-17), T-3 (4') (880-32574-18) and T-3 (5') (880-32574-19).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-1 (0-1') (880-32574-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: T-1 (2') (880-32574-3) and T-1 (3') (880-32574-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-2 (1.5') (880-32574-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-2 (4') (880-32574-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-61445 and analytical batch 880-61425 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: The continuing calibration verification (CCV) associated with batch 880-61425 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-61425/20).

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 880-61194 and analytical batch 880-61220 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-61166 and analytical batch 880-61230 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The continuing calibration blank (CCB) for analytical batch 880-61230 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

Case Narrative

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Job ID: 880-32574-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32574-1

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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		08/29/23 10:54	08/29/23 11:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 11:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 11:44	1
m-Xylene & p-Xylene	<0.00397	U **	0.00397		mg/Kg		08/29/23 10:54	08/29/23 11:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 11:44	1
Xylenes, Total	<0.00397	U **	0.00397		mg/Kg		08/29/23 10:54	08/29/23 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/29/23 10:54	08/29/23 11:44	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130	08/29/23 10:54	08/29/23 11:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		08/26/23 10:59	08/27/23 11:11	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		08/26/23 10:59	08/27/23 11:11	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/26/23 10:59	08/27/23 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/26/23 10:59	08/27/23 11:11	1
o-Terphenyl	103		70 - 130	08/26/23 10:59	08/27/23 11:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		25.0		mg/Kg			08/27/23 15:45	5

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-32574-2

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 12:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 12:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 12:05	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/29/23 10:54	08/29/23 12:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 12:05	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/29/23 10:54	08/29/23 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/29/23 10:54	08/29/23 12:05	1
1,4-Difluorobenzene (Surr)	72		70 - 130	08/29/23 10:54	08/29/23 12:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-32574-2

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/26/23 10:59	08/27/23 12:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/26/23 10:59	08/27/23 12:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/26/23 10:59	08/27/23 12:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/26/23 10:59	08/27/23 12:20	1
o-Terphenyl	101		70 - 130				08/26/23 10:59	08/27/23 12:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		25.0		mg/Kg			08/27/23 15:56	5

Client Sample ID: T-1 (2')

Lab Sample ID: 880-32574-3

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 12:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 12:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 12:25	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		08/29/23 10:54	08/29/23 12:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 12:25	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		08/29/23 10:54	08/29/23 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/29/23 10:54	08/29/23 12:25	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130				08/29/23 10:54	08/29/23 12:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/26/23 10:59	08/27/23 12:43	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/26/23 10:59	08/27/23 12:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (2')

Lab Sample ID: 880-32574-3

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/26/23 10:59	08/27/23 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/26/23 10:59	08/27/23 12:43	1
o-Terphenyl	103		70 - 130				08/26/23 10:59	08/27/23 12:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		24.9		mg/Kg			08/27/23 16:30	5

Client Sample ID: T-1 (3')

Lab Sample ID: 880-32574-4

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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		08/29/23 10:54	08/29/23 12:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 12:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 12:46	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396		mg/Kg		08/29/23 10:54	08/29/23 12:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 12:46	1
Xylenes, Total	<0.00396	U **	0.00396		mg/Kg		08/29/23 10:54	08/29/23 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				08/29/23 10:54	08/29/23 12:46	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				08/29/23 10:54	08/29/23 12:46	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			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/26/23 10:59	08/27/23 13:07	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/26/23 10:59	08/27/23 13:07	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/26/23 10:59	08/27/23 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/26/23 10:59	08/27/23 13:07	1
o-Terphenyl	100		70 - 130				08/26/23 10:59	08/27/23 13:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360		24.9		mg/Kg			08/27/23 16:41	5

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (4')

Lab Sample ID: 880-32574-5

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 13:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 13:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 13:06	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		08/29/23 10:54	08/29/23 13:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 13:06	1
Xylenes, Total	<0.00403	U **	0.00403		mg/Kg		08/29/23 10:54	08/29/23 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	08/29/23 10:54	08/29/23 13:06	1
1,4-Difluorobenzene (Surr)	77		70 - 130	08/29/23 10:54	08/29/23 13:06	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			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 13:30	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 13:30	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/26/23 10:59	08/27/23 13:30	1
o-Terphenyl	98		70 - 130	08/26/23 10:59	08/27/23 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7280		50.2		mg/Kg			08/27/23 16:52	10

Client Sample ID: T-1 (5')

Lab Sample ID: 880-32574-6

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 13:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 13:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 13:27	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		08/29/23 10:54	08/29/23 13:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 13:27	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		08/29/23 10:54	08/29/23 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	08/29/23 10:54	08/29/23 13:27	1
1,4-Difluorobenzene (Surr)	70		70 - 130	08/29/23 10:54	08/29/23 13:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (5')

Lab Sample ID: 880-32574-6

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/26/23 10:59	08/27/23 13:54	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/26/23 10:59	08/27/23 13:54	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/26/23 10:59	08/27/23 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/26/23 10:59	08/27/23 13:54	1
o-Terphenyl	103		70 - 130				08/26/23 10:59	08/27/23 13:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.6		4.99		mg/Kg			08/27/23 17:03	1

Client Sample ID: T-1 (6')

Lab Sample ID: 880-32574-7

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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		08/29/23 10:54	08/29/23 13:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 13:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 13:47	1
m-Xylene & p-Xylene	<0.00397	U **	0.00397		mg/Kg		08/29/23 10:54	08/29/23 13:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 13:47	1
Xylenes, Total	<0.00397	U **	0.00397		mg/Kg		08/29/23 10:54	08/29/23 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				08/29/23 10:54	08/29/23 13:47	1
1,4-Difluorobenzene (Surr)	78		70 - 130				08/29/23 10:54	08/29/23 13:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 14:16	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 14:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (6')

Lab Sample ID: 880-32574-7

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/26/23 10:59	08/27/23 14:16	1
o-Terphenyl	101		70 - 130				08/26/23 10:59	08/27/23 14:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		4.98		mg/Kg			08/27/23 17:14	1

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

Lab Sample ID: 880-32574-8

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/29/23 10:54	08/29/23 14:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/29/23 10:54	08/29/23 14:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/29/23 10:54	08/29/23 14:08	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/29/23 10:54	08/29/23 14:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/29/23 10:54	08/29/23 14:08	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		08/29/23 10:54	08/29/23 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				08/29/23 10:54	08/29/23 14:08	1
1,4-Difluorobenzene (Surr)	77		70 - 130				08/29/23 10:54	08/29/23 14:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/26/23 10:59	08/27/23 14:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/26/23 10:59	08/27/23 14:42	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/26/23 10:59	08/27/23 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/26/23 10:59	08/27/23 14:42	1
o-Terphenyl	92		70 - 130				08/26/23 10:59	08/27/23 14:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13200		99.0		mg/Kg			08/27/23 17:26	20

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-32574-9

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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		08/29/23 10:54	08/29/23 14:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 14:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 14:28	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396		mg/Kg		08/29/23 10:54	08/29/23 14:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 14:28	1
Xylenes, Total	<0.00396	U **	0.00396		mg/Kg		08/29/23 10:54	08/29/23 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	08/29/23 10:54	08/29/23 14:28	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	08/29/23 10:54	08/29/23 14:28	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			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 15:08	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 15:08	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/26/23 10:59	08/27/23 15:08	1
o-Terphenyl	104		70 - 130	08/26/23 10:59	08/27/23 15:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1780		25.2		mg/Kg			08/27/23 17:37	5

Client Sample ID: T-2 (2')

Lab Sample ID: 880-32574-10

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 14:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 14:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 14:49	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/29/23 10:54	08/29/23 14:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 14:49	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/29/23 10:54	08/29/23 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	08/29/23 10:54	08/29/23 14:49	1
1,4-Difluorobenzene (Surr)	79		70 - 130	08/29/23 10:54	08/29/23 14:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (2')

Lab Sample ID: 880-32574-10

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/26/23 10:59	08/27/23 15:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/26/23 10:59	08/27/23 15:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/26/23 10:59	08/27/23 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/26/23 10:59	08/27/23 15:33	1
o-Terphenyl	101		70 - 130				08/26/23 10:59	08/27/23 15:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		5.04		mg/Kg			08/29/23 11:33	1

Client Sample ID: T-2 (3')

Lab Sample ID: 880-32574-11

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 16:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 16:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 16:11	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		08/29/23 10:54	08/29/23 16:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 16:11	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		08/29/23 10:54	08/29/23 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				08/29/23 10:54	08/29/23 16:11	1
1,4-Difluorobenzene (Surr)	74		70 - 130				08/29/23 10:54	08/29/23 16:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/26/23 10:59	08/27/23 16:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/26/23 10:59	08/27/23 16:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (3')

Lab Sample ID: 880-32574-11

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/26/23 10:59	08/27/23 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/26/23 10:59	08/27/23 16:26	1
o-Terphenyl	99		70 - 130				08/26/23 10:59	08/27/23 16:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.6	F1	4.95		mg/Kg			08/29/23 11:40	1

Client Sample ID: T-2 (4')

Lab Sample ID: 880-32574-12

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 16:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 16:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 16:32	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		08/29/23 10:54	08/29/23 16:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 16:32	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		08/29/23 10:54	08/29/23 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				08/29/23 10:54	08/29/23 16:32	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				08/29/23 10:54	08/29/23 16:32	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			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 16:51	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 16:51	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/26/23 10:59	08/27/23 16:51	1
o-Terphenyl	92		70 - 130				08/26/23 10:59	08/27/23 16:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		4.98		mg/Kg			08/29/23 12:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (5')

Lab Sample ID: 880-32574-13

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 16:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 16:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 16:52	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		08/29/23 10:54	08/29/23 16:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 16:52	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		08/29/23 10:54	08/29/23 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/29/23 10:54	08/29/23 16:52	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/29/23 10:54	08/29/23 16:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/26/23 10:59	08/27/23 17:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/26/23 10:59	08/27/23 17:14	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/26/23 10:59	08/27/23 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/26/23 10:59	08/27/23 17:14	1
o-Terphenyl	111		70 - 130	08/26/23 10:59	08/27/23 17:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		5.04		mg/Kg			08/29/23 12:09	1

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

Lab Sample ID: 880-32574-14

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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		08/29/23 10:54	08/29/23 17:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 17:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 17:13	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396		mg/Kg		08/29/23 10:54	08/29/23 17:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/29/23 10:54	08/29/23 17:13	1
Xylenes, Total	<0.00396	U **	0.00396		mg/Kg		08/29/23 10:54	08/29/23 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/29/23 10:54	08/29/23 17:13	1
1,4-Difluorobenzene (Surr)	79		70 - 130	08/29/23 10:54	08/29/23 17:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32574-14

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/26/23 10:59	08/27/23 17:37	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/26/23 10:59	08/27/23 17:37	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/26/23 10:59	08/27/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/26/23 10:59	08/27/23 17:37	1
o-Terphenyl	97		70 - 130				08/26/23 10:59	08/27/23 17:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	801		4.97		mg/Kg			08/29/23 12:30	1

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-32574-15

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 17:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 17:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 17:33	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		08/29/23 10:54	08/29/23 17:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/29/23 10:54	08/29/23 17:33	1
Xylenes, Total	<0.00403	U **	0.00403		mg/Kg		08/29/23 10:54	08/29/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				08/29/23 10:54	08/29/23 17:33	1
1,4-Difluorobenzene (Surr)	73		70 - 130				08/29/23 10:54	08/29/23 17:33	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			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/26/23 10:59	08/27/23 18:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/26/23 10:59	08/27/23 18:00	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-32574-15

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/26/23 10:59	08/27/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/26/23 10:59	08/27/23 18:00	1
o-Terphenyl	101		70 - 130				08/26/23 10:59	08/27/23 18:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		4.96		mg/Kg			08/29/23 12:37	1

Client Sample ID: T-3 (2')

Lab Sample ID: 880-32574-16

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 17:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 17:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 17:54	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		08/29/23 10:54	08/29/23 17:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 17:54	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		08/29/23 10:54	08/29/23 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/29/23 10:54	08/29/23 17:54	1
1,4-Difluorobenzene (Surr)	81		70 - 130				08/29/23 10:54	08/29/23 17:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/26/23 10:59	08/27/23 18:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/26/23 10:59	08/27/23 18:23	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/26/23 10:59	08/27/23 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/26/23 10:59	08/27/23 18:23	1
o-Terphenyl	98		70 - 130				08/26/23 10:59	08/27/23 18:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		5.01		mg/Kg			08/29/23 12:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (3')

Lab Sample ID: 880-32574-17

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 18:14	1
m-Xylene & p-Xylene	<0.00400	U **	0.00400		mg/Kg		08/29/23 10:54	08/29/23 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 18:14	1
Xylenes, Total	<0.00400	U **	0.00400		mg/Kg		08/29/23 10:54	08/29/23 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	08/29/23 10:54	08/29/23 18:14	1
1,4-Difluorobenzene (Surr)	73		70 - 130	08/29/23 10:54	08/29/23 18:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 18:48	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 18:48	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/26/23 10:59	08/27/23 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/26/23 10:59	08/27/23 18:48	1
o-Terphenyl	102		70 - 130	08/26/23 10:59	08/27/23 18:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4810		25.3		mg/Kg			08/29/23 12:52	5

Client Sample ID: T-3 (4')

Lab Sample ID: 880-32574-18

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/29/23 10:54	08/29/23 18:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/29/23 10:54	08/29/23 18:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/29/23 10:54	08/29/23 18:35	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/29/23 10:54	08/29/23 18:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/29/23 10:54	08/29/23 18:35	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		08/29/23 10:54	08/29/23 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	08/29/23 10:54	08/29/23 18:35	1
1,4-Difluorobenzene (Surr)	70		70 - 130	08/29/23 10:54	08/29/23 18:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (4')

Lab Sample ID: 880-32574-18

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 19:14	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 19:14	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/26/23 10:59	08/27/23 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/26/23 10:59	08/27/23 19:14	1
o-Terphenyl	103		70 - 130				08/26/23 10:59	08/27/23 19:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5050		25.0		mg/Kg			08/29/23 12:59	5

Client Sample ID: T-3 (5')

Lab Sample ID: 880-32574-19

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 18:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 18:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 18:55	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/29/23 10:54	08/29/23 18:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 18:55	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/29/23 10:54	08/29/23 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/29/23 10:54	08/29/23 18:55	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/29/23 10:54	08/29/23 18:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/30/23 09:53	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			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/26/23 10:59	08/27/23 19:38	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/26/23 10:59	08/27/23 19:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (5')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-19
Matrix: Solid

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		08/26/23 10:59	08/27/23 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/26/23 10:59	08/27/23 19:38	1
o-Terphenyl	94		70 - 130				08/26/23 10:59	08/27/23 19:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		5.04		mg/Kg			08/29/23 13:06	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
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)
880-32574-1	T-1 (0-1')	98	63 S1-
880-32574-1 MS	T-1 (0-1')	122	91
880-32574-1 MSD	T-1 (0-1')	119	102
880-32574-2	T-1 (1.5')	87	72
880-32574-3	T-1 (2')	104	61 S1-
880-32574-4	T-1 (3')	100	65 S1-
880-32574-5	T-1 (4')	88	77
880-32574-6	T-1 (5')	81	70
880-32574-7	T-1 (6')	83	78
880-32574-8	T-2 (0-1')	83	77
880-32574-9	T-2 (1.5')	86	68 S1-
880-32574-10	T-2 (2')	83	79
880-32574-11	T-2 (3')	82	74
880-32574-12	T-2 (4')	85	66 S1-
880-32574-13	T-2 (5')	85	78
880-32574-14	T-3 (0-1')	87	79
880-32574-15	T-3 (1.5')	86	73
880-32574-16	T-3 (2')	88	81
880-32574-17	T-3 (3')	88	73
880-32574-18	T-3 (4')	88	70
880-32574-19	T-3 (5')	108	98
LCS 880-61445/1-A	Lab Control Sample	124	117
LCSD 880-61445/2-A	Lab Control Sample Dup	121	119
MB 880-61445/5-A	Method Blank	78	80
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)
880-32574-1	T-1 (0-1')	98	103
880-32574-1 MS	T-1 (0-1')	97	90
880-32574-1 MSD	T-1 (0-1')	97	89
880-32574-2	T-1 (1.5')	95	101
880-32574-3	T-1 (2')	97	103
880-32574-4	T-1 (3')	94	100
880-32574-5	T-1 (4')	93	98
880-32574-6	T-1 (5')	101	103
880-32574-7	T-1 (6')	96	101
880-32574-8	T-2 (0-1')	88	92
880-32574-9	T-2 (1.5')	100	104
880-32574-10	T-2 (2')	95	101
880-32574-11	T-2 (3')	98	99
880-32574-12	T-2 (4')	88	92
880-32574-13	T-2 (5')	100	111

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-32574-1

Project/Site: Copperhead Fee A 3H

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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-32574-14	T-3 (0-1')	92	97
880-32574-15	T-3 (1.5')	102	101
880-32574-16	T-3 (2')	92	98
880-32574-17	T-3 (3')	95	102
880-32574-18	T-3 (4')	94	103
880-32574-19	T-3 (5')	88	94
LCS 880-61194/2-A	Lab Control Sample	98	99
LCSD 880-61194/3-A	Lab Control Sample Dup	93	94
MB 880-61194/1-A	Method Blank	123	132 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61445/5-A

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/23 10:54	08/29/23 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	08/29/23 10:54	08/29/23 11:23	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/29/23 10:54	08/29/23 11:23	1

Lab Sample ID: LCS 880-61445/1-A

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1001		mg/Kg		100	70 - 130
Toluene	0.100	0.1144		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1196		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2624	*+	mg/Kg		131	70 - 130
o-Xylene	0.100	0.1298		mg/Kg		130	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-61445/2-A

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08856		mg/Kg		89	70 - 130	12	35
Toluene	0.100	0.1012		mg/Kg		101	70 - 130	12	35
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2310		mg/Kg		116	70 - 130	13	35
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: 880-32574-1 MS

Matrix: Solid

Analysis Batch: 61425

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

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0498	0.04459		mg/Kg		90	70 - 130
Toluene	<0.00198	U	0.0498	0.05352		mg/Kg		107	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32574-1 MS

Matrix: Solid

Analysis Batch: 61425

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

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0498	0.05186		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00397	U *	0.0996	0.1066		mg/Kg		107	70 - 130
o-Xylene	<0.00198	U	0.0498	0.05327		mg/Kg		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-32574-1 MSD

Matrix: Solid

Analysis Batch: 61425

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

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0504	0.04303		mg/Kg		85	70 - 130	4	35
Toluene	<0.00198	U	0.0504	0.05048		mg/Kg		100	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.0504	0.04742		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene	<0.00397	U *	0.101	0.09361		mg/Kg		93	70 - 130	13	35
o-Xylene	<0.00198	U	0.0504	0.04696		mg/Kg		93	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-61194/1-A

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 08:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 08:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	08/26/23 10:59	08/27/23 08:29	1
o-Terphenyl	132	S1+	70 - 130	08/26/23 10:59	08/27/23 08:29	1

Lab Sample ID: LCS 880-61194/2-A

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	855.8		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1006		mg/Kg		101	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-61194/2-A

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61194

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-61194/3-A

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61194

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	853.7		mg/Kg		85	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	970.0		mg/Kg		97	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-32574-1 MS

Matrix: Solid

Analysis Batch: 61220

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

Prep Type: Total/NA

Prep Batch: 61194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1010	806.7		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	894.5		mg/Kg		86	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-32574-1 MSD

Matrix: Solid

Analysis Batch: 61220

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

Prep Type: Total/NA

Prep Batch: 61194

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	<49.5	U	1010	799.6		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	897.3		mg/Kg		86	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	89		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-61161/1-A

Matrix: Solid

Analysis Batch: 61229

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/27/23 12:01	1

Lab Sample ID: LCS 880-61161/2-A

Matrix: Solid

Analysis Batch: 61229

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-61161/3-A

Matrix: Solid

Analysis Batch: 61229

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	249.2		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-32573-A-1-B MS

Matrix: Solid

Analysis Batch: 61229

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	114		249	353.7		mg/Kg		97	90 - 110

Lab Sample ID: 880-32573-A-1-C MSD

Matrix: Solid

Analysis Batch: 61229

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	114		249	354.0		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-61166/1-A

Matrix: Solid

Analysis Batch: 61230

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/29/23 09:38	1

Lab Sample ID: LCS 880-61166/2-A

Matrix: Solid

Analysis Batch: 61230

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-61166/3-A

Matrix: Solid

Analysis Batch: 61230

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	245.5		mg/Kg		98	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-32574-11 MS

Matrix: Solid

Analysis Batch: 61230

Client Sample ID: T-2 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	89.6	F1	248	395.2	F1	mg/Kg		123	90 - 110

Lab Sample ID: 880-32574-11 MSD

Matrix: Solid

Analysis Batch: 61230

Client Sample ID: T-2 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	89.6	F1	248	394.2	F1	mg/Kg		123	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 61425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-1	T-1 (0-1')	Total/NA	Solid	8021B	61445
880-32574-2	T-1 (1.5')	Total/NA	Solid	8021B	61445
880-32574-3	T-1 (2')	Total/NA	Solid	8021B	61445
880-32574-4	T-1 (3')	Total/NA	Solid	8021B	61445
880-32574-5	T-1 (4')	Total/NA	Solid	8021B	61445
880-32574-6	T-1 (5')	Total/NA	Solid	8021B	61445
880-32574-7	T-1 (6')	Total/NA	Solid	8021B	61445
880-32574-8	T-2 (0-1')	Total/NA	Solid	8021B	61445
880-32574-9	T-2 (1.5')	Total/NA	Solid	8021B	61445
880-32574-10	T-2 (2')	Total/NA	Solid	8021B	61445
880-32574-11	T-2 (3')	Total/NA	Solid	8021B	61445
880-32574-12	T-2 (4')	Total/NA	Solid	8021B	61445
880-32574-13	T-2 (5')	Total/NA	Solid	8021B	61445
880-32574-14	T-3 (0-1')	Total/NA	Solid	8021B	61445
880-32574-15	T-3 (1.5')	Total/NA	Solid	8021B	61445
880-32574-16	T-3 (2')	Total/NA	Solid	8021B	61445
880-32574-17	T-3 (3')	Total/NA	Solid	8021B	61445
880-32574-18	T-3 (4')	Total/NA	Solid	8021B	61445
880-32574-19	T-3 (5')	Total/NA	Solid	8021B	61445
MB 880-61445/5-A	Method Blank	Total/NA	Solid	8021B	61445
LCS 880-61445/1-A	Lab Control Sample	Total/NA	Solid	8021B	61445
LCSD 880-61445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61445
880-32574-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	61445
880-32574-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	61445

Prep Batch: 61445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-1	T-1 (0-1')	Total/NA	Solid	5035	
880-32574-2	T-1 (1.5')	Total/NA	Solid	5035	
880-32574-3	T-1 (2')	Total/NA	Solid	5035	
880-32574-4	T-1 (3')	Total/NA	Solid	5035	
880-32574-5	T-1 (4')	Total/NA	Solid	5035	
880-32574-6	T-1 (5')	Total/NA	Solid	5035	
880-32574-7	T-1 (6')	Total/NA	Solid	5035	
880-32574-8	T-2 (0-1')	Total/NA	Solid	5035	
880-32574-9	T-2 (1.5')	Total/NA	Solid	5035	
880-32574-10	T-2 (2')	Total/NA	Solid	5035	
880-32574-11	T-2 (3')	Total/NA	Solid	5035	
880-32574-12	T-2 (4')	Total/NA	Solid	5035	
880-32574-13	T-2 (5')	Total/NA	Solid	5035	
880-32574-14	T-3 (0-1')	Total/NA	Solid	5035	
880-32574-15	T-3 (1.5')	Total/NA	Solid	5035	
880-32574-16	T-3 (2')	Total/NA	Solid	5035	
880-32574-17	T-3 (3')	Total/NA	Solid	5035	
880-32574-18	T-3 (4')	Total/NA	Solid	5035	
880-32574-19	T-3 (5')	Total/NA	Solid	5035	
MB 880-61445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32574-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-32574-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 61522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-32574-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-32574-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-32574-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-32574-5	T-1 (4')	Total/NA	Solid	Total BTEX	
880-32574-6	T-1 (5')	Total/NA	Solid	Total BTEX	
880-32574-7	T-1 (6')	Total/NA	Solid	Total BTEX	
880-32574-8	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-32574-9	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-32574-10	T-2 (2')	Total/NA	Solid	Total BTEX	
880-32574-11	T-2 (3')	Total/NA	Solid	Total BTEX	
880-32574-12	T-2 (4')	Total/NA	Solid	Total BTEX	
880-32574-13	T-2 (5')	Total/NA	Solid	Total BTEX	
880-32574-14	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-32574-15	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-32574-16	T-3 (2')	Total/NA	Solid	Total BTEX	
880-32574-17	T-3 (3')	Total/NA	Solid	Total BTEX	
880-32574-18	T-3 (4')	Total/NA	Solid	Total BTEX	
880-32574-19	T-3 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 61194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-32574-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-32574-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-32574-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-32574-5	T-1 (4')	Total/NA	Solid	8015NM Prep	
880-32574-6	T-1 (5')	Total/NA	Solid	8015NM Prep	
880-32574-7	T-1 (6')	Total/NA	Solid	8015NM Prep	
880-32574-8	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-32574-9	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-32574-10	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-32574-11	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-32574-12	T-2 (4')	Total/NA	Solid	8015NM Prep	
880-32574-13	T-2 (5')	Total/NA	Solid	8015NM Prep	
880-32574-14	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-32574-15	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-32574-16	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-32574-17	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-32574-18	T-3 (4')	Total/NA	Solid	8015NM Prep	
880-32574-19	T-3 (5')	Total/NA	Solid	8015NM Prep	
MB 880-61194/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61194/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32574-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-32574-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 61220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-1	T-1 (0-1')	Total/NA	Solid	8015B NM	61194
880-32574-2	T-1 (1.5')	Total/NA	Solid	8015B NM	61194
880-32574-3	T-1 (2')	Total/NA	Solid	8015B NM	61194
880-32574-4	T-1 (3')	Total/NA	Solid	8015B NM	61194
880-32574-5	T-1 (4')	Total/NA	Solid	8015B NM	61194
880-32574-6	T-1 (5')	Total/NA	Solid	8015B NM	61194
880-32574-7	T-1 (6')	Total/NA	Solid	8015B NM	61194
880-32574-8	T-2 (0-1')	Total/NA	Solid	8015B NM	61194
880-32574-9	T-2 (1.5')	Total/NA	Solid	8015B NM	61194
880-32574-10	T-2 (2')	Total/NA	Solid	8015B NM	61194
880-32574-11	T-2 (3')	Total/NA	Solid	8015B NM	61194
880-32574-12	T-2 (4')	Total/NA	Solid	8015B NM	61194
880-32574-13	T-2 (5')	Total/NA	Solid	8015B NM	61194
880-32574-14	T-3 (0-1')	Total/NA	Solid	8015B NM	61194
880-32574-15	T-3 (1.5')	Total/NA	Solid	8015B NM	61194
880-32574-16	T-3 (2')	Total/NA	Solid	8015B NM	61194
880-32574-17	T-3 (3')	Total/NA	Solid	8015B NM	61194
880-32574-18	T-3 (4')	Total/NA	Solid	8015B NM	61194
880-32574-19	T-3 (5')	Total/NA	Solid	8015B NM	61194
MB 880-61194/1-A	Method Blank	Total/NA	Solid	8015B NM	61194
LCS 880-61194/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61194
LCSD 880-61194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61194
880-32574-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	61194
880-32574-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	61194

Analysis Batch: 61370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-32574-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-32574-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-32574-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-32574-5	T-1 (4')	Total/NA	Solid	8015 NM	
880-32574-6	T-1 (5')	Total/NA	Solid	8015 NM	
880-32574-7	T-1 (6')	Total/NA	Solid	8015 NM	
880-32574-8	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-32574-9	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-32574-10	T-2 (2')	Total/NA	Solid	8015 NM	
880-32574-11	T-2 (3')	Total/NA	Solid	8015 NM	
880-32574-12	T-2 (4')	Total/NA	Solid	8015 NM	
880-32574-13	T-2 (5')	Total/NA	Solid	8015 NM	
880-32574-14	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-32574-15	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-32574-16	T-3 (2')	Total/NA	Solid	8015 NM	
880-32574-17	T-3 (3')	Total/NA	Solid	8015 NM	
880-32574-18	T-3 (4')	Total/NA	Solid	8015 NM	
880-32574-19	T-3 (5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 61161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-32574-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-32574-3	T-1 (2')	Soluble	Solid	DI Leach	
880-32574-4	T-1 (3')	Soluble	Solid	DI Leach	
880-32574-5	T-1 (4')	Soluble	Solid	DI Leach	
880-32574-6	T-1 (5')	Soluble	Solid	DI Leach	
880-32574-7	T-1 (6')	Soluble	Solid	DI Leach	
880-32574-8	T-2 (0-1')	Soluble	Solid	DI Leach	
880-32574-9	T-2 (1.5')	Soluble	Solid	DI Leach	
MB 880-61161/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61161/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61161/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32573-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-32573-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 61166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-10	T-2 (2')	Soluble	Solid	DI Leach	
880-32574-11	T-2 (3')	Soluble	Solid	DI Leach	
880-32574-12	T-2 (4')	Soluble	Solid	DI Leach	
880-32574-13	T-2 (5')	Soluble	Solid	DI Leach	
880-32574-14	T-3 (0-1')	Soluble	Solid	DI Leach	
880-32574-15	T-3 (1.5')	Soluble	Solid	DI Leach	
880-32574-16	T-3 (2')	Soluble	Solid	DI Leach	
880-32574-17	T-3 (3')	Soluble	Solid	DI Leach	
880-32574-18	T-3 (4')	Soluble	Solid	DI Leach	
880-32574-19	T-3 (5')	Soluble	Solid	DI Leach	
MB 880-61166/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61166/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61166/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32574-11 MS	T-2 (3')	Soluble	Solid	DI Leach	
880-32574-11 MSD	T-2 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 61229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-1	T-1 (0-1')	Soluble	Solid	300.0	61161
880-32574-2	T-1 (1.5')	Soluble	Solid	300.0	61161
880-32574-3	T-1 (2')	Soluble	Solid	300.0	61161
880-32574-4	T-1 (3')	Soluble	Solid	300.0	61161
880-32574-5	T-1 (4')	Soluble	Solid	300.0	61161
880-32574-6	T-1 (5')	Soluble	Solid	300.0	61161
880-32574-7	T-1 (6')	Soluble	Solid	300.0	61161
880-32574-8	T-2 (0-1')	Soluble	Solid	300.0	61161
880-32574-9	T-2 (1.5')	Soluble	Solid	300.0	61161
MB 880-61161/1-A	Method Blank	Soluble	Solid	300.0	61161
LCS 880-61161/2-A	Lab Control Sample	Soluble	Solid	300.0	61161
LCSD 880-61161/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61161
880-32573-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	61161
880-32573-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	61161

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 61230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32574-10	T-2 (2')	Soluble	Solid	300.0	61166
880-32574-11	T-2 (3')	Soluble	Solid	300.0	61166
880-32574-12	T-2 (4')	Soluble	Solid	300.0	61166
880-32574-13	T-2 (5')	Soluble	Solid	300.0	61166
880-32574-14	T-3 (0-1')	Soluble	Solid	300.0	61166
880-32574-15	T-3 (1.5')	Soluble	Solid	300.0	61166
880-32574-16	T-3 (2')	Soluble	Solid	300.0	61166
880-32574-17	T-3 (3')	Soluble	Solid	300.0	61166
880-32574-18	T-3 (4')	Soluble	Solid	300.0	61166
880-32574-19	T-3 (5')	Soluble	Solid	300.0	61166
MB 880-61166/1-A	Method Blank	Soluble	Solid	300.0	61166
LCS 880-61166/2-A	Lab Control Sample	Soluble	Solid	300.0	61166
LCSD 880-61166/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61166
880-32574-11 MS	T-2 (3')	Soluble	Solid	300.0	61166
880-32574-11 MSD	T-2 (3')	Soluble	Solid	300.0	61166

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32574-1

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 11:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 11:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61229	08/27/23 15:45	CH	EET MID

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-32574-2

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 12:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 12:20	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61229	08/27/23 15:56	CH	EET MID

Client Sample ID: T-1 (2')

Lab Sample ID: 880-32574-3

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 12:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 12:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61229	08/27/23 16:30	CH	EET MID

Client Sample ID: T-1 (3')

Lab Sample ID: 880-32574-4

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:22

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	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 12:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (3')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 13:07	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61229	08/27/23 16:41	CH	EET MID

Client Sample ID: T-1 (4')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 13:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	61229	08/27/23 16:52	CH	EET MID

Client Sample ID: T-1 (5')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 13:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 13:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61229	08/27/23 17:03	CH	EET MID

Client Sample ID: T-1 (6')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 13:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 14:16	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (6')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61229	08/27/23 17:14	CH	EET MID

Client Sample ID: T-2 (0-1')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 14:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 14:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	61229	08/27/23 17:26	CH	EET MID

Client Sample ID: T-2 (1.5')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 14:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 15:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61229	08/27/23 17:37	CH	EET MID

Client Sample ID: T-2 (2')
Date Collected: 08/24/23 00:00
Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 14:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 15:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61230	08/29/23 11:33	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (3')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 16:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 16:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61230	08/29/23 11:40	CH	EET MID

Client Sample ID: T-2 (4')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 16:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 16:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61230	08/29/23 12:02	CH	EET MID

Client Sample ID: T-2 (5')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 16:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 17:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61230	08/29/23 12:09	CH	EET MID

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

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 17:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

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

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 17:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61230	08/29/23 12:30	CH	EET MID

Client Sample ID: T-3 (1.5')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 17:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 18:00	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61230	08/29/23 12:37	CH	EET MID

Client Sample ID: T-3 (2')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 17:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 18:23	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61230	08/29/23 12:45	CH	EET MID

Client Sample ID: T-3 (3')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 18:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 18:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (3')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61230	08/29/23 12:52	CH	EET MID

Client Sample ID: T-3 (4')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 18:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 19:14	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61230	08/29/23 12:59	CH	EET MID

Client Sample ID: T-3 (5')

Date Collected: 08/24/23 00:00

Date Received: 08/25/23 15:22

Lab Sample ID: 880-32574-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 18:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61522	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61370	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 19:38	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61166	08/25/23 18:46	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61230	08/29/23 13:06	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32574-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32574-1	T-1 (0-1')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-2	T-1 (1.5')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-3	T-1 (2')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-4	T-1 (3')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-5	T-1 (4')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-6	T-1 (5')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-7	T-1 (6')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-8	T-2 (0-1')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-9	T-2 (1.5')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-10	T-2 (2')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-11	T-2 (3')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-12	T-2 (4')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-13	T-2 (5')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-14	T-3 (0-1')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-15	T-3 (1.5')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-16	T-3 (2')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-17	T-3 (3')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-18	T-3 (4')	Solid	08/24/23 00:00	08/25/23 15:22
880-32574-19	T-3 (5')	Solid	08/24/23 00:00	08/25/23 15:22

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Chain of Custody



880-32574 Chain of Custody

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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:	mcamona@camonaresources.com
Work Order Comments			
Program: UST/PST ☐ PRP ☐ Rowfields ☐ RC ☐ Refund ☐			
State of Project:			
Reporting Level II ☐ Level III ☐ ST/UST ☐ PRP ☐ Level IV ☐			
Deliverables: EDD ☐ ADAPT ☐ Other:			

Project Name:		Copperhead Fee A 3H		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2053	☐ Routine	☒ Rush													None: NO	DI Water: H ₂ O				
Project Location	Eddy County, New Mexico	Due Date:	72 Hrs													Cool: Cool	MeOH: Me				
Sampler's Name:	MM													HCL: HC	HNO ₃ : HN						
PO #:														H ₂ SO ₄ : H ₂	NaOH: Na						
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Thermometer ID:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐	Parameters													
Received Intact:	Yes ☒ No ☐	Correction Factor:	Yes ☒ No ☐	Temperature Reading:	Yes ☒ No ☐	Corrected Temperature:	Yes ☒ No ☐	BTX 8021B													
Cooler Custody Seals:	Yes ☒ No ☐	Temperature Reading:	Yes ☒ No ☐	Corrected Temperature:	Yes ☒ No ☐	TPH 8015M (GRO + DRO + MRO)															
Sample Custody Seals:	Yes ☒ No ☐	Corrected Temperature:	Yes ☒ No ☐	Chloride 300.0																	
Total Containers:																					
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
T-1 (0-1')		8/24/2023		X		G	1	X	X	X											
T-1 (1.5')		8/24/2023		X		G	1	X	X	X											
T-1 (2')		8/24/2023		X		G	1	X	X	X											
T-1 (3')		8/24/2023		X		G	1	X	X	X											
T-1 (4')		8/24/2023		X		G	1	X	X	X											
T-1 (5')		8/24/2023		X		G	1	X	X	X											
T-1 (6')		8/24/2023		X		G	1	X	X	X											
T-2 (0-1')		8/24/2023		X		G	1	X	X	X											
T-2 (1.5')		8/24/2023		X		G	1	X	X	X											
T-2 (2')		8/24/2023		X		G	1	X	X	X											

Comments: Email to Mike Carmona / Mcamona@camonaresources.com and Conner Moehring / Cmoehring@camonaresources.com

Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time
		8-25-23			

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Chain of Custody

Loc: 880
Work Order No: 32574

Page 2 of 2

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

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

Project Name:		Copperhead Fee A 3H			Turn Around			Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	2053			☐ Routine	☒ Rush				None: NO	DI Water: H ₂ O												
Project Location:	Eddy County, New Mexico			Due Date:	72 Hrs				Cool: Cool	MeOH: Me												
Sampler's Name:	MM								HCL: HC	HNO ₃ : HN												
PO #:									H ₂ SO ₄ : H ₂	NaOH: Na												
SAMPLE RECEIPT				Temp Blank:	Yes	No	Well Ice:	Yes	No	H ₃ PO ₄ : HP												
Received Intact:	Yes			No	Thermometer ID:				NaHSO ₄ : NABIS													
Cooler Custody Seals:	Yes			No	N/A	Correction Factor:				Na ₂ S ₂ O ₅ : NaSO ₃												
Sample Custody Seals:	Yes			No	N/A	Temperature Reading:				Zn Acetate+NaOH: Zn												
Total Containers:				Corrected Temperature:					NaOH+Ascorbic Acid: SAPC													
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
T-2 (3')		8/24/2023		X		G	1	X	X	X												
T-2 (4')		8/24/2023		X		G	1	X	X	X												
T-2 (5')		8/24/2023		X		G	1	X	X	X												
T-3 (0-1')		8/24/2023		X		G	1	X	X	X												
T-3 (1.5')		8/24/2023		X		G	1	X	X	X												
T-3 (2')		8/24/2023		X		G	1	X	X	X												
T-3 (3')		8/24/2023		X		G	1	X	X	X												
T-3 (4')		8/24/2023		X		G	1	X	X	X												
T-3 (5')		8/24/2023		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
	8-25-23 1522		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-32574-1

SDG Number: Eddy County, New Mexico

Login Number: 32574

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/15/2023 1:23:43 PM

JOB DESCRIPTION

Copperhead Fee A 3H
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-29348-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
6/15/2023 1:23:43 PM

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

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Laboratory Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

Job ID: 880-29348-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-29348-1****Receipt**

The samples were received on 6/9/2023 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-29348-1), H-2 (0-0.5') (880-29348-2), H-3 (0-0.5') (880-29348-3) and H-4 (0-0.5') (880-29348-4).

GC VOA

Method 8021B: CCV was biased low for o-xylene and m,p xylenes. Another CCV was analyzed and acceptable for the compounds within the 12 hour window; therefore, the associated data was qualified and reported.(CCV 880-55243/33)

Method 8021B: CCV was biased low for benzene. Another CCV was analyzed and acceptable for the compound within the 12 hour window; therefore, the associated data was qualified and reported.(CCV 880-55243/51)

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-55215/1-A), (MB 880-55176/5-A) and (MB 880-55215/5-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: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-29348-1), H-3 (0-0.5') (880-29348-3), H-4 (0-0.5') (880-29348-4), (880-29351-A-11-D), (880-29351-A-11-E MS) and (880-29351-A-11-F 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 sample was outside control limits: (MB 880-55379/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29348-1

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/13/23 05:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/13/23 05:52	1
Ethylbenzene	<0.00200	U *1	0.00200		mg/Kg		06/10/23 15:04	06/13/23 05:52	1
m-Xylene & p-Xylene	<0.00400	U *- *1	0.00400		mg/Kg		06/10/23 15:04	06/13/23 05:52	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		06/10/23 15:04	06/13/23 05:52	1
Xylenes, Total	<0.00400	U *- *1	0.00400		mg/Kg		06/10/23 15:04	06/13/23 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	06/10/23 15:04	06/13/23 05:52	1
1,4-Difluorobenzene (Surr)	79		70 - 130	06/10/23 15:04	06/13/23 05:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/13/23 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/15/23 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/23 09:44	06/15/23 02:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/23 09:44	06/15/23 02:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/23 09:44	06/15/23 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	06/13/23 09:44	06/15/23 02:26	1
o-Terphenyl	114		70 - 130	06/13/23 09:44	06/15/23 02:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1530		25.1		mg/Kg			06/12/23 14:36	5

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

Lab Sample ID: 880-29348-2

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/10/23 15:04	06/13/23 06:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/10/23 15:04	06/13/23 06:13	1
Ethylbenzene	<0.00202	U *1	0.00202		mg/Kg		06/10/23 15:04	06/13/23 06:13	1
m-Xylene & p-Xylene	<0.00403	U *- *1	0.00403		mg/Kg		06/10/23 15:04	06/13/23 06:13	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		06/10/23 15:04	06/13/23 06:13	1
Xylenes, Total	<0.00403	U *- *1	0.00403		mg/Kg		06/10/23 15:04	06/13/23 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/10/23 15:04	06/13/23 06:13	1
1,4-Difluorobenzene (Surr)	76		70 - 130	06/10/23 15:04	06/13/23 06:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29348-2

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/13/23 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/15/23 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/23 09:44	06/15/23 02:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/13/23 09:44	06/15/23 02:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/23 09:44	06/15/23 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				06/13/23 09:44	06/15/23 02:04	1
o-Terphenyl	98		70 - 130				06/13/23 09:44	06/15/23 02:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		5.02		mg/Kg			06/12/23 14:52	1

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

Lab Sample ID: 880-29348-3

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/13/23 06:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/13/23 06:33	1
Ethylbenzene	<0.00200	U *1	0.00200		mg/Kg		06/10/23 15:04	06/13/23 06:33	1
m-Xylene & p-Xylene	<0.00399	U *1	0.00399		mg/Kg		06/10/23 15:04	06/13/23 06:33	1
o-Xylene	<0.00200	U *1	0.00200		mg/Kg		06/10/23 15:04	06/13/23 06:33	1
Xylenes, Total	<0.00399	U *1	0.00399		mg/Kg		06/10/23 15:04	06/13/23 06:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				06/10/23 15:04	06/13/23 06:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/10/23 15:04	06/13/23 06:33	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			06/13/23 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/15/23 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/15/23 02:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/15/23 02:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29348-3

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/15/23 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				06/13/23 09:44	06/15/23 02:47	1
o-Terphenyl	108		70 - 130				06/13/23 09:44	06/15/23 02:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		4.99		mg/Kg			06/12/23 14:57	1

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

Lab Sample ID: 880-29348-4

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/13/23 06:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/13/23 06:54	1
Ethylbenzene	<0.00200	U *1	0.00200		mg/Kg		06/10/23 15:04	06/13/23 06:54	1
m-Xylene & p-Xylene	<0.00401	U *1	0.00401		mg/Kg		06/10/23 15:04	06/13/23 06:54	1
o-Xylene	<0.00200	U *1	0.00200		mg/Kg		06/10/23 15:04	06/13/23 06:54	1
Xylenes, Total	<0.00401	U *1	0.00401		mg/Kg		06/10/23 15:04	06/13/23 06:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				06/10/23 15:04	06/13/23 06:54	1
1,4-Difluorobenzene (Surr)	86		70 - 130				06/10/23 15:04	06/13/23 06:54	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			06/13/23 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/15/23 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/15/23 03:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/15/23 03:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/15/23 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				06/13/23 09:44	06/15/23 03:09	1
o-Terphenyl	110		70 - 130				06/13/23 09:44	06/15/23 03:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.1		4.95		mg/Kg			06/12/23 15:03	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
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)
880-29348-1	H-1 (0-0.5')	92	79
880-29348-2	H-2 (0-0.5')	93	76
880-29348-3	H-3 (0-0.5')	89	82
880-29348-4	H-4 (0-0.5')	87	86
880-29350-A-1-B MS	Matrix Spike	100	123
880-29350-A-1-C MSD	Matrix Spike Duplicate	96	101
LCS 880-55215/1-A	Lab Control Sample	58 S1-	113
LCSD 880-55215/2-A	Lab Control Sample Dup	116	114
MB 880-55176/5-A	Method Blank	69 S1-	98
MB 880-55215/5-A	Method Blank	64 S1-	100
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29348-1	H-1 (0-0.5')	134 S1+	114
880-29348-2	H-2 (0-0.5')	121	98
880-29348-3	H-3 (0-0.5')	131 S1+	108
880-29348-4	H-4 (0-0.5')	133 S1+	110
880-29351-A-11-E MS	Matrix Spike	137 S1+	110
880-29351-A-11-F MSD	Matrix Spike Duplicate	135 S1+	110
LCS 880-55379/2-A	Lab Control Sample	108	93
LCSD 880-55379/3-A	Lab Control Sample Dup	109	92
MB 880-55379/1-A	Method Blank	0.02 S1-	0.01 S1-
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-55176/5-A

Matrix: Solid

Analysis Batch: 55243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/23 16:35	06/12/23 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/23 16:35	06/12/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/23 16:35	06/12/23 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/09/23 16:35	06/12/23 12:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/23 16:35	06/12/23 12:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/23 16:35	06/12/23 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	06/09/23 16:35	06/12/23 12:26	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/09/23 16:35	06/12/23 12:26	1

Lab Sample ID: MB 880-55215/5-A

Matrix: Solid

Analysis Batch: 55243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/12/23 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/12/23 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/12/23 23:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/10/23 15:04	06/12/23 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/23 15:04	06/12/23 23:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/10/23 15:04	06/12/23 23:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	06/10/23 15:04	06/12/23 23:23	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/10/23 15:04	06/12/23 23:23	1

Lab Sample ID: LCS 880-55215/1-A

Matrix: Solid

Analysis Batch: 55243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1189		mg/Kg		119	70 - 130
Toluene	0.100	0.08605		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.07514		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1385	*-	mg/Kg		69	70 - 130
o-Xylene	0.100	0.06744	*-	mg/Kg		67	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-55215/2-A

Matrix: Solid

Analysis Batch: 55243

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1266		mg/Kg		127	70 - 130	6	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-55215/2-A

Matrix: Solid

Analysis Batch: 55243

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1075		mg/Kg		108	70 - 130	22	35
Ethylbenzene	0.100	0.1173	*1	mg/Kg		117	70 - 130	44	35
m-Xylene & p-Xylene	0.200	0.2409	*1	mg/Kg		120	70 - 130	54	35
o-Xylene	0.100	0.1199	*1	mg/Kg		120	70 - 130	56	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-29350-A-1-B MS

Matrix: Solid

Analysis Batch: 55243

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.09110		mg/Kg		91	70 - 130
Toluene	<0.00198	U F1	0.0996	0.04611	F1	mg/Kg		45	70 - 130
Ethylbenzene	<0.00198	U *1 F1	0.0996	0.02595	F1	mg/Kg		26	70 - 130
m-Xylene & p-Xylene	<0.00396	U *- *1 F1	0.199	0.05230	F1	mg/Kg		26	70 - 130
o-Xylene	<0.00198	U *- *1 F1	0.0996	0.02748	F1	mg/Kg		27	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 880-29350-A-1-C MSD

Matrix: Solid

Analysis Batch: 55243

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 55215

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0992	0.08017		mg/Kg		81	70 - 130	13	35
Toluene	<0.00198	U F1	0.0992	0.05884	F1	mg/Kg		58	70 - 130	24	35
Ethylbenzene	<0.00198	U *1 F1	0.0992	0.02107	F1	mg/Kg		21	70 - 130	21	35
m-Xylene & p-Xylene	<0.00396	U *- *1 F1	0.198	0.04185	F1	mg/Kg		21	70 - 130	22	35
o-Xylene	<0.00198	U *- *1 F1	0.0992	0.02162	F1	mg/Kg		21	70 - 130	24	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-55379/1-A

Matrix: Solid

Analysis Batch: 55457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/14/23 21:15	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-55379/1-A

Matrix: Solid

Analysis Batch: 55457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/14/23 21:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/23 09:44	06/14/23 21:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0.02	S1-	70 - 130				06/13/23 09:44	06/14/23 21:15	1
o-Terphenyl	0.01	S1-	70 - 130				06/13/23 09:44	06/14/23 21:15	1

Lab Sample ID: LCS 880-55379/2-A

Matrix: Solid

Analysis Batch: 55457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	829.5		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	806.1		mg/Kg		81	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	108		70 - 130				
o-Terphenyl	93		70 - 130				

Lab Sample ID: LCSD 880-55379/3-A

Matrix: Solid

Analysis Batch: 55457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55379

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	929.0		mg/Kg		93	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	910.9		mg/Kg		91	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: 880-29351-A-11-E MS

Matrix: Solid

Analysis Batch: 55457

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1080		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1099		mg/Kg		108	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	110		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29351-A-11-F MSD

Matrix: Solid

Analysis Batch: 55457

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 55379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1076		mg/Kg		105	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1080		mg/Kg		106	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	135	S1+	70 - 130								
o-Terphenyl	110		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55249/1-A

Matrix: Solid

Analysis Batch: 55259

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/12/23 14:20	1

Lab Sample ID: LCS 880-55249/2-A

Matrix: Solid

Analysis Batch: 55259

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.2		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-55249/3-A

Matrix: Solid

Analysis Batch: 55259

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	266.1		mg/Kg		106	90 - 110	4	20

Lab Sample ID: 880-29348-1 MS

Matrix: Solid

Analysis Batch: 55259

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	1530		1250	2776		mg/Kg		100	90 - 110

Lab Sample ID: 880-29348-1 MSD

Matrix: Solid

Analysis Batch: 55259

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	1530		1250	2808		mg/Kg		102	90 - 110	1	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 55176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55176/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 55215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-29348-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-29348-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-29348-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-55215/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55215/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55215/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29350-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-29350-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 55243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-1	H-1 (0-0.5')	Total/NA	Solid	8021B	55215
880-29348-2	H-2 (0-0.5')	Total/NA	Solid	8021B	55215
880-29348-3	H-3 (0-0.5')	Total/NA	Solid	8021B	55215
880-29348-4	H-4 (0-0.5')	Total/NA	Solid	8021B	55215
MB 880-55176/5-A	Method Blank	Total/NA	Solid	8021B	55176
MB 880-55215/5-A	Method Blank	Total/NA	Solid	8021B	55215
LCS 880-55215/1-A	Lab Control Sample	Total/NA	Solid	8021B	55215
LCSD 880-55215/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55215
880-29350-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	55215
880-29350-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	55215

Analysis Batch: 55401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29348-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29348-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-29348-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 55379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29348-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29348-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-29348-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-55379/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55379/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29351-A-11-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29351-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	55379

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 55457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	55379
880-29348-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	55379
880-29348-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	55379
MB 880-55379/1-A	Method Blank	Total/NA	Solid	8015B NM	55379
LCS 880-55379/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55379
LCSD 880-55379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55379
880-29351-A-11-E MS	Matrix Spike	Total/NA	Solid	8015B NM	55379
880-29351-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	55379

Analysis Batch: 55605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-29348-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-29348-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-29348-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 55249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-29348-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-29348-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-29348-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-55249/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55249/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55249/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29348-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-29348-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 55259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29348-1	H-1 (0-0.5')	Soluble	Solid	300.0	55249
880-29348-2	H-2 (0-0.5')	Soluble	Solid	300.0	55249
880-29348-3	H-3 (0-0.5')	Soluble	Solid	300.0	55249
880-29348-4	H-4 (0-0.5')	Soluble	Solid	300.0	55249
MB 880-55249/1-A	Method Blank	Soluble	Solid	300.0	55249
LCS 880-55249/2-A	Lab Control Sample	Soluble	Solid	300.0	55249
LCSD 880-55249/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55249
880-29348-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	55249
880-29348-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	55249

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-29348-1

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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	55215	06/10/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55243	06/13/23 05:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55401	06/13/23 11:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55605	06/15/23 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55379	06/13/23 09:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55457	06/15/23 02:26	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	55249	06/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		5			55259	06/12/23 14:36	CH	EET MID

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

Lab Sample ID: 880-29348-2

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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	55215	06/10/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55243	06/13/23 06:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55401	06/13/23 11:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55605	06/15/23 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55379	06/13/23 09:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55457	06/15/23 02:04	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	55249	06/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		1			55259	06/12/23 14:52	CH	EET MID

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

Lab Sample ID: 880-29348-3

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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	55215	06/10/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55243	06/13/23 06:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55401	06/13/23 11:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55605	06/15/23 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	55379	06/13/23 09:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55457	06/15/23 02:47	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	55249	06/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		1			55259	06/12/23 14:57	CH	EET MID

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

Lab Sample ID: 880-29348-4

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/09/23 15:00

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	55215	06/10/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55243	06/13/23 06:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55401	06/13/23 11:41	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 06/08/23 00:00
Date Received: 06/09/23 15:00

Lab Sample ID: 880-29348-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			55605	06/15/23 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55379	06/13/23 09:44	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55457	06/15/23 03:09	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	55249	06/12/23 09:17	KS	EET MID
Soluble	Analysis	300.0		1			55259	06/12/23 15:03	CH	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

- 1
- 2
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Method Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-29348-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29348-1	H-1 (0-0.5')	Solid	06/08/23 00:00	06/09/23 15:00
880-29348-2	H-2 (0-0.5')	Solid	06/08/23 00:00	06/09/23 15:00
880-29348-3	H-3 (0-0.5')	Solid	06/08/23 00:00	06/09/23 15:00
880-29348-4	H-4 (0-0.5')	Solid	06/08/23 00:00	06/09/23 15:00

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Work Order No: 19348

Page 1 of 1

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

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

Project Name	Copperhead Fee A 3H	Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes			
Project Number		☐ Routine	☒ Rush		Due Date	72 Hrs											None NO	DI Water H ₂ O
Project Location	Eddy County, New Mexico																Cool Cool	MeOH Me
Sampler's Name	FV																HCL HC	HNO ₃ HN
PO #:		Temp Blank	Yes (No)	Wet Ice	Yes (No)											H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT		Received Intact.	Yes (No)	Thermometer ID												H ₃ PO ₄ HP		
Cooler Custody Seals	Yes (No)	Correction Factor														NaHSO ₄ NABIS		
Sample Custody Seals	Yes (No)	Temperature Reading														Na ₂ S ₂ O ₃ NaSO ₃		
Total Containers	Yes (No)	Corrected Temperature														Zn Acetate+NaOH Zn		
																NaOH+Ascorbic Acid S APC		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
H-1 (0-0.5')	6/8/2023		X		G	1	X	X	X	X								
H-2 (0-0.5')	6/8/2023		X		G	1	X	X	X	X								
H-3 (0-0.5')	6/8/2023		X		G	1	X	X	X	X								
H-4 (0-0.5')	6/8/2023		X		G	1	X	X	X	X								
880-29348 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
		6-9-23			
		1500			

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-29348-1

SDG Number: Eddy County, New Mexico

Login Number: 29348

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
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JOB DESCRIPTION

Copperhead Fee A 3H
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-32573-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



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Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Laboratory Job ID: 880-32573-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

Job ID: 880-32573-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-32573-1****Receipt**

The sample was received on 8/25/2023 3:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-32573-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-32574-A-1-G). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-1 (0-0.5') (880-32573-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-61445 and analytical batch 880-61425 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: The continuing calibration verification (CCV) associated with batch 880-61425 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-61425/20).

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 880-61194 and analytical batch 880-61220 was outside the upper control limits.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32573-1

Date Collected: 08/24/23 00:00

Matrix: Solid

Date Received: 08/25/23 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 19:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 19:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 19:16	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/29/23 10:54	08/29/23 19:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/29/23 10:54	08/29/23 19:16	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/29/23 10:54	08/29/23 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/29/23 10:54	08/29/23 19:16	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	08/29/23 10:54	08/29/23 19:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/30/23 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/28/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 20:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 20:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	08/26/23 10:59	08/27/23 20:06	1
o-Terphenyl	92		70 - 130	08/26/23 10:59	08/27/23 20:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.97		mg/Kg			08/27/23 15:11	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
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)
880-32573-1	H-1 (0-0.5')	89	68 S1-
880-32574-A-1-E MS	Matrix Spike	122	91
880-32574-A-1-F MSD	Matrix Spike Duplicate	119	102
LCS 880-61445/1-A	Lab Control Sample	124	117
LCSD 880-61445/2-A	Lab Control Sample Dup	121	119
MB 880-61445/5-A	Method Blank	78	80
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)
880-32573-1	H-1 (0-0.5')	91	92
880-32574-A-1-C MS	Matrix Spike	97	90
880-32574-A-1-D MSD	Matrix Spike Duplicate	97	89
LCS 880-61194/2-A	Lab Control Sample	98	99
LCSD 880-61194/3-A	Lab Control Sample Dup	93	94
MB 880-61194/1-A	Method Blank	123	132 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61445/5-A

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/29/23 10:54	08/29/23 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/29/23 10:54	08/29/23 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	08/29/23 10:54	08/29/23 11:23	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/29/23 10:54	08/29/23 11:23	1

Lab Sample ID: LCS 880-61445/1-A

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1001		mg/Kg		100	70 - 130
Toluene	0.100	0.1144		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1196		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2624	*+	mg/Kg		131	70 - 130
o-Xylene	0.100	0.1298		mg/Kg		130	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-61445/2-A

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08856		mg/Kg		89	70 - 130	12	35
Toluene	0.100	0.1012		mg/Kg		101	70 - 130	12	35
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2310		mg/Kg		116	70 - 130	13	35
o-Xylene	0.100	0.1147		mg/Kg		115	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: 880-32574-A-1-E MS

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0498	0.04459		mg/Kg		90	70 - 130
Toluene	<0.00198	U	0.0498	0.05352		mg/Kg		107	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-32574-A-1-E MS

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0498	0.05186		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00397	U *	0.0996	0.1066		mg/Kg		107	70 - 130
o-Xylene	<0.00198	U	0.0498	0.05327		mg/Kg		107	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	122		70 - 130						
1,4-Difluorobenzene (Surr)	91		70 - 130						

Lab Sample ID: 880-32574-A-1-F MSD

Matrix: Solid

Analysis Batch: 61425

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0504	0.04303		mg/Kg		85	70 - 130	4	35
Toluene	<0.00198	U	0.0504	0.05048		mg/Kg		100	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.0504	0.04742		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene	<0.00397	U *	0.101	0.09361		mg/Kg		93	70 - 130	13	35
o-Xylene	<0.00198	U	0.0504	0.04696		mg/Kg		93	70 - 130	13	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	119		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-61194/1-A

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 08:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/26/23 10:59	08/27/23 08:29	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				08/26/23 10:59	08/27/23 08:29	1
o-Terphenyl	132	S1+	70 - 130				08/26/23 10:59	08/27/23 08:29	1

Lab Sample ID: LCS 880-61194/2-A

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	855.8		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1006		mg/Kg		101	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-61194/2-A

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61194

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-61194/3-A

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61194

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	853.7		mg/Kg		85	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	970.0		mg/Kg		97	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-32574-A-1-C MS

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 61194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1010	806.7		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	894.5		mg/Kg		86	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-32574-A-1-D MSD

Matrix: Solid

Analysis Batch: 61220

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 61194

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	<49.5	U	1010	799.6		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	897.3		mg/Kg		86	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	89		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-61161/1-A

Matrix: Solid

Analysis Batch: 61229

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/27/23 12:01	1

Lab Sample ID: LCS 880-61161/2-A

Matrix: Solid

Analysis Batch: 61229

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	247.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-61161/3-A

Matrix: Solid

Analysis Batch: 61229

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	249.2		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-32573-1 MS

Matrix: Solid

Analysis Batch: 61229

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	114		249	353.7		mg/Kg		97	90 - 110

Lab Sample ID: 880-32573-1 MSD

Matrix: Solid

Analysis Batch: 61229

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	114		249	354.0		mg/Kg		97	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 61425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1	H-1 (0-0.5')	Total/NA	Solid	8021B	61445
MB 880-61445/5-A	Method Blank	Total/NA	Solid	8021B	61445
LCS 880-61445/1-A	Lab Control Sample	Total/NA	Solid	8021B	61445
LCSD 880-61445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61445
880-32574-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	61445
880-32574-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	61445

Prep Batch: 61445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1	H-1 (0-0.5')	Total/NA	Solid	5035	
MB 880-61445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32574-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-32574-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 61523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 61194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-61194/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61194/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32574-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-32574-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	61194
MB 880-61194/1-A	Method Blank	Total/NA	Solid	8015B NM	61194
LCS 880-61194/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61194
LCSD 880-61194/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61194
880-32574-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	61194
880-32574-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	61194

Analysis Batch: 61371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 61161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-61161/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61161/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61161/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 61161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-32573-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 61229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32573-1	H-1 (0-0.5')	Soluble	Solid	300.0	61161
MB 880-61161/1-A	Method Blank	Soluble	Solid	300.0	61161
LCS 880-61161/2-A	Lab Control Sample	Soluble	Solid	300.0	61161
LCSD 880-61161/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61161
880-32573-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	61161
880-32573-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	61161

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5') Lab Sample ID: 880-32573-1
Date Collected: 08/24/23 00:00 Matrix: Solid
Date Received: 08/25/23 15:30

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	61445	08/29/23 10:54	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61425	08/29/23 19:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61523	08/30/23 09:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			61371	08/28/23 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	61194	08/26/23 10:59	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61220	08/27/23 20:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	61161	08/25/23 17:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61229	08/27/23 15:11	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H

Job ID: 880-32573-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32573-1	H-1 (0-0.5')	Solid	08/24/23 00:00	08/25/23 15:30

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Work Order No: 32573
8/30/2023

Project Manager:	Conner Moehring	Bill to: (if different)	Calmona Resources
Company Name:	Calmona 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:	lmc@calmonaresources.com

Page 1 of 1

[illegible][illegible]

Comments: Email to [Mike Carmona / Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Jenna Jones</i>	8-25-23 1500	<i>[Signature]</i>	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-32573-1

SDG Number: Eddy County, New Mexico

Login Number: 32573

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/14/2023 12:59:12 PM

JOB DESCRIPTION

Copperhead Fee A 3H (5/27/23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-33172-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
9/14/2023 12:59:12 PM

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

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Laboratory Job ID: 880-33172-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
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.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

Case Narrative

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Job ID: 880-33172-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-33172-1

Receipt

The samples were received on 9/13/2023 8:35 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 -5.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (4.5') (880-33172-1), CS-2 (4.5') (880-33172-2), CS-3 (4.5') (880-33172-3), CS-4 (4.5') (880-33172-4), CS-5 (4.5') (880-33172-5), CS-6 (3') (880-33172-6), CS-7 (3') (880-33172-7), CS-8 (3') (880-33172-8), CS-9 (3') (880-33172-9), CS-10 (3') (880-33172-10), CS-11 (3') (880-33172-11), CS-12 (5.5') (880-33172-12), CS-13 (5.5') (880-33172-13), CS-14 (5.5') (880-33172-14), CS-15 (5.5') (880-33172-15), CS-16 (5.5') (880-33172-16), SW-1 (1.5') (880-33172-17), SW-2 (4.5') (880-33172-18), SW-3 (4.5') (880-33172-19), SW-4 (4.5') (880-33172-20), SW-5 (3') (880-33172-21), SW-6 (2.5') (880-33172-22), SW-7 (3') (880-33172-23), SW-8 (2.5') (880-33172-24), SW-9 (5.5') (880-33172-25), SW-10 (5.5') (880-33172-26) and SW-11 (5.5') (880-33172-27).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-62313 and 880-62314 and analytical batch 880-62312 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 samples were outside control limits: CS-1 (4.5') (880-33172-1), CS-2 (4.5') (880-33172-2), CS-3 (4.5') (880-33172-3), CS-4 (4.5') (880-33172-4), CS-5 (4.5') (880-33172-5), CS-6 (3') (880-33172-6), CS-7 (3') (880-33172-7), CS-8 (3') (880-33172-8), CS-9 (3') (880-33172-9), CS-10 (3') (880-33172-10), CS-13 (5.5') (880-33172-13), CS-14 (5.5') (880-33172-14), CS-16 (5.5') (880-33172-16), SW-1 (1.5') (880-33172-17), SW-3 (4.5') (880-33172-19), SW-4 (4.5') (880-33172-20), SW-5 (3') (880-33172-21), SW-6 (2.5') (880-33172-22), SW-7 (3') (880-33172-23), SW-9 (5.5') (880-33172-25), SW-10 (5.5') (880-33172-26) and SW-11 (5.5') (880-33172-27). 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 880-62325 and analytical batch 880-62304 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-33139-A-54-D) and (880-33139-A-54-C 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: SW-5 (3') (880-33172-21), SW-6 (2.5') (880-33172-22), SW-7 (3') (880-33172-23), SW-8 (2.5') (880-33172-24), SW-9 (5.5') (880-33172-25), SW-10 (5.5') (880-33172-26) and SW-11 (5.5') (880-33172-27). 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 880-62304/31), (CCV 880-62304/47) and (CCV 880-62304/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-2 (4.5') (880-33172-2), CS-3 (4.5') (880-33172-3), CS-5 (4.5') (880-33172-5) and CS-7 (3') (880-33172-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-8 (3') (880-33172-8), CS-9 (3') (880-33172-9) and CS-10 (3') (880-33172-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Job ID: 880-33172-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-12 (5.5') (880-33172-12), CS-13 (5.5') (880-33172-13), CS-15 (5.5') (880-33172-15), CS-16 (5.5') (880-33172-16) and SW-2 (4.5') (880-33172-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike (MS); therefore, matrix spike recoveries are unavailable for preparation batch 880-62324 and analytical batch 880-62306. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-62315 and analytical batch 880-62390 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-62316 and analytical batch 880-62391 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (4.5')

Lab Sample ID: 880-33172-1

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0147	F1	0.00198		mg/Kg		09/13/23 09:03	09/13/23 12:00	1
Toluene	0.158	F1	0.00198		mg/Kg		09/13/23 09:03	09/13/23 12:00	1
Ethylbenzene	0.0172		0.00198		mg/Kg		09/13/23 09:03	09/13/23 12:00	1
m-Xylene & p-Xylene	0.0379	F1	0.00396		mg/Kg		09/13/23 09:03	09/13/23 12:00	1
o-Xylene	0.0285	F1	0.00198		mg/Kg		09/13/23 09:03	09/13/23 12:00	1
Xylenes, Total	0.0664	F1	0.00396		mg/Kg		09/13/23 09:03	09/13/23 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130	09/13/23 09:03	09/13/23 12:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/13/23 09:03	09/13/23 12:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.256		0.00396		mg/Kg			09/14/23 12:25	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			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1 F2	49.6		mg/Kg		09/13/23 10:15	09/13/23 21:05	1
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	49.6		mg/Kg		09/13/23 10:15	09/13/23 21:05	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/13/23 10:15	09/13/23 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	32	S1-	70 - 130	09/13/23 10:15	09/13/23 21:05	1
o-Terphenyl	21	S1-	70 - 130	09/13/23 10:15	09/13/23 21:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.5		5.00		mg/Kg			09/13/23 15:53	1

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-33172-2

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 12:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 12:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 12:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 12:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 12:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	09/13/23 09:03	09/13/23 12:21	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130	09/13/23 09:03	09/13/23 12:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-33172-2

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	88.3		50.3		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/13/23 10:15	09/13/23 22:12	1
Diesel Range Organics (Over C10-C28)	88.3		50.3		mg/Kg		09/13/23 10:15	09/13/23 22:12	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/13/23 10:15	09/13/23 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				09/13/23 10:15	09/13/23 22:12	1
o-Terphenyl	145	S1+	70 - 130				09/13/23 10:15	09/13/23 22:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.0		4.95		mg/Kg			09/13/23 16:13	1

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-33172-3

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 12:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 12:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 12:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 12:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 12:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				09/13/23 09:03	09/13/23 12:41	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				09/13/23 09:03	09/13/23 12:41	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.9		50.1		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		09/13/23 10:15	09/13/23 22:33	1
Diesel Range Organics (Over C10-C28)	69.9		50.1		mg/Kg		09/13/23 10:15	09/13/23 22:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-33172-3

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/13/23 10:15	09/13/23 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				09/13/23 10:15	09/13/23 22:33	1
o-Terphenyl	146	S1+	70 - 130				09/13/23 10:15	09/13/23 22:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.6		4.98		mg/Kg			09/13/23 16:20	1

Client Sample ID: CS-4 (4.5')

Lab Sample ID: 880-33172-4

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 13:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 13:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 13:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 13:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 13:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130				09/13/23 09:03	09/13/23 13:02	1
1,4-Difluorobenzene (Surr)	80		70 - 130				09/13/23 09:03	09/13/23 13:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.2		50.5		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		09/13/23 10:15	09/13/23 22:55	1
Diesel Range Organics (Over C10-C28)	62.2		50.5		mg/Kg		09/13/23 10:15	09/13/23 22:55	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/13/23 10:15	09/13/23 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				09/13/23 10:15	09/13/23 22:55	1
o-Terphenyl	125		70 - 130				09/13/23 10:15	09/13/23 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		4.96		mg/Kg			09/13/23 16:27	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-5 (4.5')

Lab Sample ID: 880-33172-5

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 13:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 13:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 13:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/23 09:03	09/13/23 13:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 13:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/23 09:03	09/13/23 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				09/13/23 09:03	09/13/23 13:22	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130				09/13/23 09:03	09/13/23 13:22	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			09/14/23 12:25	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		49.9		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/13/23 10:15	09/13/23 23:16	1
Diesel Range Organics (Over C10-C28)	76.6		49.9		mg/Kg		09/13/23 10:15	09/13/23 23:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/23 10:15	09/13/23 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				09/13/23 10:15	09/13/23 23:16	1
o-Terphenyl	143	S1+	70 - 130				09/13/23 10:15	09/13/23 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.2		5.04		mg/Kg			09/13/23 16:33	1

Client Sample ID: CS-6 (3')

Lab Sample ID: 880-33172-6

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 13:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 13:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 13:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 13:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 13:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				09/13/23 09:03	09/13/23 13:43	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130				09/13/23 09:03	09/13/23 13:43	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-6 (3')

Lab Sample ID: 880-33172-6

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.0		49.8		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/13/23 10:15	09/13/23 23:37	1
Diesel Range Organics (Over C10-C28)	68.0		49.8		mg/Kg		09/13/23 10:15	09/13/23 23:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/23 10:15	09/13/23 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				09/13/23 10:15	09/13/23 23:37	1
o-Terphenyl	124		70 - 130				09/13/23 10:15	09/13/23 23:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.9		5.00		mg/Kg			09/13/23 16:53	1

Client Sample ID: CS-7 (3')

Lab Sample ID: 880-33172-7

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 14:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 14:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 14:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 14:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 14:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130				09/13/23 09:03	09/13/23 14:03	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130				09/13/23 09:03	09/13/23 14:03	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.8		49.7		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/13/23 10:15	09/13/23 23:59	1
Diesel Range Organics (Over C10-C28)	68.8		49.7		mg/Kg		09/13/23 10:15	09/13/23 23:59	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (3')

Lab Sample ID: 880-33172-7

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/13/23 10:15	09/13/23 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				09/13/23 10:15	09/13/23 23:59	1
o-Terphenyl	136	S1+	70 - 130				09/13/23 10:15	09/13/23 23:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.3		4.97		mg/Kg			09/13/23 17:00	1

Client Sample ID: CS-8 (3')

Lab Sample ID: 880-33172-8

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 14:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 14:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 14:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 14:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 14:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				09/13/23 09:03	09/13/23 14:24	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130				09/13/23 09:03	09/13/23 14:24	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.0		50.3		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/13/23 10:15	09/14/23 00:20	1
Diesel Range Organics (Over C10-C28)	68.0		50.3		mg/Kg		09/13/23 10:15	09/14/23 00:20	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/13/23 10:15	09/14/23 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				09/13/23 10:15	09/14/23 00:20	1
o-Terphenyl	153	S1+	70 - 130				09/13/23 10:15	09/14/23 00:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.3		4.95		mg/Kg			09/13/23 17:07	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-9 (3')

Lab Sample ID: 880-33172-9

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 14:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 14:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 14:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130	09/13/23 09:03	09/13/23 14:44	1
1,4-Difluorobenzene (Surr)	70		70 - 130	09/13/23 09:03	09/13/23 14:44	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	68.8		50.1		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		09/13/23 10:15	09/14/23 00:41	1
Diesel Range Organics (Over C10-C28)	68.8		50.1		mg/Kg		09/13/23 10:15	09/14/23 00:41	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		09/13/23 10:15	09/14/23 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	09/13/23 10:15	09/14/23 00:41	1
o-Terphenyl	140	S1+	70 - 130	09/13/23 10:15	09/14/23 00:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.1		4.96		mg/Kg			09/13/23 17:13	1

Client Sample ID: CS-10 (3')

Lab Sample ID: 880-33172-10

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 15:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 15:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 15:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/23 09:03	09/13/23 15:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 15:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/23 09:03	09/13/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	09/13/23 09:03	09/13/23 15:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/13/23 09:03	09/13/23 15:05	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-10 (3')

Lab Sample ID: 880-33172-10

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.0		50.5		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		09/13/23 10:15	09/14/23 01:03	1
Diesel Range Organics (Over C10-C28)	70.0		50.5		mg/Kg		09/13/23 10:15	09/14/23 01:03	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/13/23 10:15	09/14/23 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				09/13/23 10:15	09/14/23 01:03	1
o-Terphenyl	136	S1+	70 - 130				09/13/23 10:15	09/14/23 01:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.7		5.01		mg/Kg			09/13/23 17:20	1

Client Sample ID: CS-11 (3')

Lab Sample ID: 880-33172-11

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 16:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 16:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 16:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/13/23 09:03	09/13/23 16:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 16:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/13/23 09:03	09/13/23 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				09/13/23 09:03	09/13/23 16:28	1
1,4-Difluorobenzene (Surr)	72		70 - 130				09/13/23 09:03	09/13/23 16:28	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.0		50.0		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/23 10:15	09/14/23 01:45	1
Diesel Range Organics (Over C10-C28)	58.0		50.0		mg/Kg		09/13/23 10:15	09/14/23 01:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-11 (3')

Lab Sample ID: 880-33172-11

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/23 10:15	09/14/23 01:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				09/13/23 10:15	09/14/23 01:45	1
o-Terphenyl	127		70 - 130				09/13/23 10:15	09/14/23 01:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.2	F1	4.95		mg/Kg			09/13/23 17:27	1

Client Sample ID: CS-12 (5.5')

Lab Sample ID: 880-33172-12

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 16:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 16:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 16:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 16:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 16:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130				09/13/23 09:03	09/13/23 16:49	1
1,4-Difluorobenzene (Surr)	74		70 - 130				09/13/23 09:03	09/13/23 16:49	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.4		49.9		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/13/23 10:15	09/14/23 02:06	1
Diesel Range Organics (Over C10-C28)	64.4		49.9		mg/Kg		09/13/23 10:15	09/14/23 02:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/23 10:15	09/14/23 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				09/13/23 10:15	09/14/23 02:06	1
o-Terphenyl	150	S1+	70 - 130				09/13/23 10:15	09/14/23 02:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.3		4.99		mg/Kg			09/13/23 17:47	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-13 (5.5')

Lab Sample ID: 880-33172-13

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 17:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 17:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 17:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 17:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 17:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	09/13/23 09:03	09/13/23 17:09	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	09/13/23 09:03	09/13/23 17:09	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.7		49.6		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/13/23 10:15	09/14/23 02:28	1
Diesel Range Organics (Over C10-C28)	71.7		49.6		mg/Kg		09/13/23 10:15	09/14/23 02:28	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/13/23 10:15	09/14/23 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	09/13/23 10:15	09/14/23 02:28	1
o-Terphenyl	142	S1+	70 - 130	09/13/23 10:15	09/14/23 02:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.9		5.02		mg/Kg			09/13/23 17:53	1

Client Sample ID: CS-14 (5.5')

Lab Sample ID: 880-33172-14

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 17:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 17:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 17:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 17:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 17:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130	09/13/23 09:03	09/13/23 17:30	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/13/23 09:03	09/13/23 17:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-14 (5.5')

Lab Sample ID: 880-33172-14

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.9		49.6		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/13/23 10:15	09/14/23 02:49	1
Diesel Range Organics (Over C10-C28)	63.9		49.6		mg/Kg		09/13/23 10:15	09/14/23 02:49	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/13/23 10:15	09/14/23 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				09/13/23 10:15	09/14/23 02:49	1
o-Terphenyl	121		70 - 130				09/13/23 10:15	09/14/23 02:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.9		4.97		mg/Kg			09/13/23 18:13	1

Client Sample ID: CS-15 (5.5')

Lab Sample ID: 880-33172-15

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 17:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 17:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 17:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/23 09:03	09/13/23 17:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 17:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/23 09:03	09/13/23 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				09/13/23 09:03	09/13/23 17:50	1
1,4-Difluorobenzene (Surr)	80		70 - 130				09/13/23 09:03	09/13/23 17:50	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.9		50.3		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/13/23 10:15	09/14/23 03:10	1
Diesel Range Organics (Over C10-C28)	63.9		50.3		mg/Kg		09/13/23 10:15	09/14/23 03:10	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-15 (5.5')

Lab Sample ID: 880-33172-15

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/13/23 10:15	09/14/23 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				09/13/23 10:15	09/14/23 03:10	1
o-Terphenyl	133	S1+	70 - 130				09/13/23 10:15	09/14/23 03:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.8		5.05		mg/Kg			09/13/23 18:20	1

Client Sample ID: CS-16 (5.5')

Lab Sample ID: 880-33172-16

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 18:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 18:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 18:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 18:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 18:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				09/13/23 09:03	09/13/23 18:11	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				09/13/23 09:03	09/13/23 18:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.2		50.2		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		09/13/23 10:15	09/14/23 03:31	1
Diesel Range Organics (Over C10-C28)	69.2		50.2		mg/Kg		09/13/23 10:15	09/14/23 03:31	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/13/23 10:15	09/14/23 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				09/13/23 10:15	09/14/23 03:31	1
o-Terphenyl	140	S1+	70 - 130				09/13/23 10:15	09/14/23 03:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.5		4.97		mg/Kg			09/13/23 18:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-33172-17

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 18:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 18:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 18:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 18:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:03	09/13/23 18:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:03	09/13/23 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56	S1-	70 - 130	09/13/23 09:03	09/13/23 18:31	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/13/23 09:03	09/13/23 18:31	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.6		50.5		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		09/13/23 10:15	09/14/23 03:53	1
Diesel Range Organics (Over C10-C28)	61.6		50.5		mg/Kg		09/13/23 10:15	09/14/23 03:53	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/13/23 10:15	09/14/23 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	09/13/23 10:15	09/14/23 03:53	1
o-Terphenyl	130		70 - 130	09/13/23 10:15	09/14/23 03:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		5.00		mg/Kg			09/13/23 18:33	1

Client Sample ID: SW-2 (4.5')

Lab Sample ID: 880-33172-18

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 18:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 18:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 18:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 18:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 18:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/23 09:03	09/13/23 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	09/13/23 09:03	09/13/23 18:52	1
1,4-Difluorobenzene (Surr)	72		70 - 130	09/13/23 09:03	09/13/23 18:52	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (4.5')

Lab Sample ID: 880-33172-18

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.3		50.0		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/23 10:15	09/14/23 04:14	1
Diesel Range Organics (Over C10-C28)	60.3		50.0		mg/Kg		09/13/23 10:15	09/14/23 04:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/23 10:15	09/14/23 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				09/13/23 10:15	09/14/23 04:14	1
o-Terphenyl	134	S1+	70 - 130				09/13/23 10:15	09/14/23 04:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.3		4.95		mg/Kg			09/13/23 18:40	1

Client Sample ID: SW-3 (4.5')

Lab Sample ID: 880-33172-19

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 19:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 19:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 19:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/23 09:03	09/13/23 19:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:03	09/13/23 19:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/23 09:03	09/13/23 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60	S1-	70 - 130				09/13/23 09:03	09/13/23 19:12	1
1,4-Difluorobenzene (Surr)	78		70 - 130				09/13/23 09:03	09/13/23 19:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.8		49.9		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/13/23 10:15	09/14/23 04:35	1
Diesel Range Organics (Over C10-C28)	61.8		49.9		mg/Kg		09/13/23 10:15	09/14/23 04:35	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (4.5')

Lab Sample ID: 880-33172-19

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/23 10:15	09/14/23 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				09/13/23 10:15	09/14/23 04:35	1
o-Terphenyl	127		70 - 130				09/13/23 10:15	09/14/23 04:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.6		4.96		mg/Kg			09/13/23 18:47	1

Client Sample ID: SW-4 (4.5')

Lab Sample ID: 880-33172-20

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:03	09/13/23 19:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/13/23 09:03	09/13/23 19:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/13/23 09:03	09/13/23 19:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/13/23 09:03	09/13/23 19:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/13/23 09:03	09/13/23 19:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/13/23 09:03	09/13/23 19:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130				09/13/23 09:03	09/13/23 19:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				09/13/23 09:03	09/13/23 19:33	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.4		49.7		mg/Kg			09/14/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/13/23 10:15	09/14/23 04:56	1
Diesel Range Organics (Over C10-C28)	61.4		49.7		mg/Kg		09/13/23 10:15	09/14/23 04:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/13/23 10:15	09/14/23 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				09/13/23 10:15	09/14/23 04:56	1
o-Terphenyl	121		70 - 130				09/13/23 10:15	09/14/23 04:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.6		5.04		mg/Kg			09/13/23 18:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (3')

Lab Sample ID: 880-33172-21

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		09/13/23 09:20	09/13/23 22:39	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		09/13/23 09:20	09/13/23 22:39	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		09/13/23 09:20	09/13/23 22:39	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		09/13/23 09:20	09/13/23 22:39	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		09/13/23 09:20	09/13/23 22:39	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		09/13/23 09:20	09/13/23 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130	09/13/23 09:20	09/13/23 22:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/13/23 09:20	09/13/23 22:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/14/23 12:25	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			09/14/23 11:16	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		09/13/23 10:18	09/14/23 02:49	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/13/23 10:18	09/14/23 02:49	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/13/23 10:18	09/14/23 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	09/13/23 10:18	09/14/23 02:49	1
o-Terphenyl	113		70 - 130	09/13/23 10:18	09/14/23 02:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.3	F1	5.00		mg/Kg			09/13/23 19:47	1

Client Sample ID: SW-6 (2.5')

Lab Sample ID: 880-33172-22

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:20	09/13/23 22:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:20	09/13/23 22:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:20	09/13/23 22:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:20	09/13/23 22:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:20	09/13/23 22:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:20	09/13/23 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	09/13/23 09:20	09/13/23 22:59	1
1,4-Difluorobenzene (Surr)	54	S1-	70 - 130	09/13/23 09:20	09/13/23 22:59	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-6 (2.5')

Lab Sample ID: 880-33172-22

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			09/14/23 12:25	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			09/14/23 11:16	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		09/13/23 10:18	09/14/23 03:10	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		09/13/23 10:18	09/14/23 03:10	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/13/23 10:18	09/14/23 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				09/13/23 10:18	09/14/23 03:10	1
o-Terphenyl	120		70 - 130				09/13/23 10:18	09/14/23 03:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.7		4.98		mg/Kg			09/13/23 20:07	1

Client Sample ID: SW-7 (3')

Lab Sample ID: 880-33172-23

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:20	09/13/23 23:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:20	09/13/23 23:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:20	09/13/23 23:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/13/23 09:20	09/13/23 23:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:20	09/13/23 23:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/13/23 09:20	09/13/23 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130				09/13/23 09:20	09/13/23 23:19	1
1,4-Difluorobenzene (Surr)	81		70 - 130				09/13/23 09:20	09/13/23 23:19	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			09/14/23 12:25	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			09/14/23 11:16	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		09/13/23 10:18	09/14/23 03:31	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		09/13/23 10:18	09/14/23 03:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-7 (3')

Lab Sample ID: 880-33172-23

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/13/23 10:18	09/14/23 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				09/13/23 10:18	09/14/23 03:31	1
o-Terphenyl	122		70 - 130				09/13/23 10:18	09/14/23 03:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.2		5.04		mg/Kg			09/13/23 20:14	1

Client Sample ID: SW-8 (2.5')

Lab Sample ID: 880-33172-24

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:20	09/13/23 23:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:20	09/13/23 23:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:20	09/13/23 23:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/13/23 09:20	09/13/23 23:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/13/23 09:20	09/13/23 23:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/13/23 09:20	09/13/23 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				09/13/23 09:20	09/13/23 23:40	1
1,4-Difluorobenzene (Surr)	74		70 - 130				09/13/23 09:20	09/13/23 23:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/14/23 12:25	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			09/14/23 11:16	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		09/13/23 10:18	09/14/23 03:53	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		09/13/23 10:18	09/14/23 03:53	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		09/13/23 10:18	09/14/23 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	179	S1+	70 - 130				09/13/23 10:18	09/14/23 03:53	1
o-Terphenyl	147	S1+	70 - 130				09/13/23 10:18	09/14/23 03:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.5		4.95		mg/Kg			09/13/23 20:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-9 (5.5')

Lab Sample ID: 880-33172-25

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:20	09/14/23 00:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/13/23 09:20	09/14/23 00:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/13/23 09:20	09/14/23 00:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/13/23 09:20	09/14/23 00:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/13/23 09:20	09/14/23 00:00	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/13/23 09:20	09/14/23 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130	09/13/23 09:20	09/14/23 00:00	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/13/23 09:20	09/14/23 00:00	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			09/14/23 12:25	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			09/14/23 11:16	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		09/13/23 10:18	09/14/23 04:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/13/23 10:18	09/14/23 04:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/23 10:18	09/14/23 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130	09/13/23 10:18	09/14/23 04:14	1
o-Terphenyl	121		70 - 130	09/13/23 10:18	09/14/23 04:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		4.99		mg/Kg			09/13/23 20:27	1

Client Sample ID: SW-10 (5.5')

Lab Sample ID: 880-33172-26

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:20	09/14/23 00:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:20	09/14/23 00:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:20	09/14/23 00:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/13/23 09:20	09/14/23 00:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/13/23 09:20	09/14/23 00:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/13/23 09:20	09/14/23 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	09/13/23 09:20	09/14/23 00:21	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/13/23 09:20	09/14/23 00:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-10 (5.5')

Lab Sample ID: 880-33172-26

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			09/14/23 12:25	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			09/14/23 11:16	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		09/13/23 10:18	09/14/23 04:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		09/13/23 10:18	09/14/23 04:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/13/23 10:18	09/14/23 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				09/13/23 10:18	09/14/23 04:35	1
o-Terphenyl	119		70 - 130				09/13/23 10:18	09/14/23 04:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		4.97		mg/Kg			09/13/23 20:47	1

Client Sample ID: SW-11 (5.5')

Lab Sample ID: 880-33172-27

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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		09/13/23 09:20	09/14/23 00:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/13/23 09:20	09/14/23 00:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/13/23 09:20	09/14/23 00:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/13/23 09:20	09/14/23 00:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/13/23 09:20	09/14/23 00:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/13/23 09:20	09/14/23 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	49	S1-	70 - 130				09/13/23 09:20	09/14/23 00:41	1
1,4-Difluorobenzene (Surr)	74		70 - 130				09/13/23 09:20	09/14/23 00:41	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			09/14/23 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			09/14/23 11:16	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	<49.5	U	49.5		mg/Kg		09/13/23 10:18	09/14/23 04:56	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		09/13/23 10:18	09/14/23 04:56	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-11 (5.5')
Date Collected: 09/12/23 00:00
Date Received: 09/13/23 08:35

Lab Sample ID: 880-33172-27
Matrix: Solid

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)	<49.5	U	49.5		mg/Kg		09/13/23 10:18	09/14/23 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				09/13/23 10:18	09/14/23 04:56	1
o-Terphenyl	123		70 - 130				09/13/23 10:18	09/14/23 04:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.8		5.03		mg/Kg			09/13/23 20:54	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-33172-1	CS-1 (4.5')	195 S1+	100
880-33172-1 MS	CS-1 (4.5')	95	92
880-33172-1 MSD	CS-1 (4.5')	106	101
880-33172-2	CS-2 (4.5')	78	60 S1-
880-33172-3	CS-3 (4.5')	80	67 S1-
880-33172-4	CS-4 (4.5')	64 S1-	80
880-33172-5	CS-5 (4.5')	82	61 S1-
880-33172-6	CS-6 (3')	82	63 S1-
880-33172-7	CS-7 (3')	70	68 S1-
880-33172-8	CS-8 (3')	82	58 S1-
880-33172-9	CS-9 (3')	51 S1-	70
880-33172-10	CS-10 (3')	62 S1-	97
880-33172-11	CS-11 (3')	76	72
880-33172-12	CS-12 (5.5')	71	74
880-33172-13	CS-13 (5.5')	77	62 S1-
880-33172-14	CS-14 (5.5')	61 S1-	107
880-33172-15	CS-15 (5.5')	79	80
880-33172-16	CS-16 (5.5')	81	65 S1-
880-33172-17	SW-1 (1.5')	56 S1-	94
880-33172-18	SW-2 (4.5')	79	72
880-33172-19	SW-3 (4.5')	60 S1-	78
880-33172-20	SW-4 (4.5')	59 S1-	82
880-33172-21	SW-5 (3')	59 S1-	100
880-33172-21 MS	SW-5 (3')	61 S1-	103
880-33172-21 MSD	SW-5 (3')	50 S1-	87
880-33172-22	SW-6 (2.5')	84	54 S1-
880-33172-23	SW-7 (3')	65 S1-	81
880-33172-24	SW-8 (2.5')	78	74
880-33172-25	SW-9 (5.5')	58 S1-	76
880-33172-26	SW-10 (5.5')	54 S1-	79
880-33172-27	SW-11 (5.5')	49 S1-	74
LCS 880-62313/1-A	Lab Control Sample	113	109
LCS 880-62314/1-A	Lab Control Sample	102	119
LCSD 880-62313/2-A	Lab Control Sample Dup	113	110
LCSD 880-62314/2-A	Lab Control Sample Dup	107	113
MB 880-62313/5-A	Method Blank	71	97
MB 880-62314/5-A	Method Blank	73	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-33139-A-54-B MS	Matrix Spike	124	97
880-33139-A-54-C MSD	Matrix Spike Duplicate	145 S1+	113

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-33172-1

Project/Site: Copperhead Fee A 3H (5/27/23)

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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-33172-1	CS-1 (4.5')	32 S1-	21 S1-
880-33172-1 MS	CS-1 (4.5')	3 S1-	0.5 S1-
880-33172-1 MSD	CS-1 (4.5')	129	121
880-33172-2	CS-2 (4.5')	143 S1+	145 S1+
880-33172-3	CS-3 (4.5')	144 S1+	146 S1+
880-33172-4	CS-4 (4.5')	124	125
880-33172-5	CS-5 (4.5')	143 S1+	143 S1+
880-33172-6	CS-6 (3')	125	124
880-33172-7	CS-7 (3')	135 S1+	136 S1+
880-33172-8	CS-8 (3')	152 S1+	153 S1+
880-33172-9	CS-9 (3')	136 S1+	140 S1+
880-33172-10	CS-10 (3')	133 S1+	136 S1+
880-33172-11	CS-11 (3')	125	127
880-33172-12	CS-12 (5.5')	147 S1+	150 S1+
880-33172-13	CS-13 (5.5')	143 S1+	142 S1+
880-33172-14	CS-14 (5.5')	121	121
880-33172-15	CS-15 (5.5')	133 S1+	133 S1+
880-33172-16	CS-16 (5.5')	139 S1+	140 S1+
880-33172-17	SW-1 (1.5')	129	130
880-33172-18	SW-2 (4.5')	137 S1+	134 S1+
880-33172-19	SW-3 (4.5')	126	127
880-33172-20	SW-4 (4.5')	123	121
880-33172-21	SW-5 (3')	136 S1+	113
880-33172-22	SW-6 (2.5')	145 S1+	120
880-33172-23	SW-7 (3')	147 S1+	122
880-33172-24	SW-8 (2.5')	179 S1+	147 S1+
880-33172-25	SW-9 (5.5')	144 S1+	121
880-33172-26	SW-10 (5.5')	144 S1+	119
880-33172-27	SW-11 (5.5')	147 S1+	123
LCS 880-62324/2-A	Lab Control Sample	82	90
LCS 880-62325/2-A	Lab Control Sample	109	105
LCSD 880-62324/3-A	Lab Control Sample Dup	92	104
LCSD 880-62325/3-A	Lab Control Sample Dup	104	95
MB 880-62324/1-A	Method Blank	116	123
MB 880-62325/1-A	Method Blank	142 S1+	125

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-62313/5-A

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/23 09:03	09/13/23 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:03	09/13/23 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/23 09:03	09/13/23 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	09/13/23 09:03	09/13/23 11:39	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/13/23 09:03	09/13/23 11:39	1

Lab Sample ID: LCS 880-62313/1-A

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1011		mg/Kg		101	70 - 130
Toluene	0.100	0.1106		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1095		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2279		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-62313/2-A

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09921		mg/Kg		99	70 - 130	2	35
Toluene	0.100	0.1033		mg/Kg		103	70 - 130	7	35
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2095		mg/Kg		105	70 - 130	8	35
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-33172-1 MS

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 62313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0147	F1	0.0998	0.07821	F1	mg/Kg		64	70 - 130
Toluene	0.158	F1	0.0998	0.09470	F1	mg/Kg		-63	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-33172-1 MS

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 62313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0172		0.0998	0.09128		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.0379	F1	0.200	0.1660	F1	mg/Kg		64	70 - 130
o-Xylene	0.0285	F1	0.0998	0.08056	F1	mg/Kg		52	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-33172-1 MSD

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 62313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0147	F1	0.100	0.08134	F1	mg/Kg		66	70 - 130	4	35
Toluene	0.158	F1	0.100	0.09093	F1	mg/Kg		-66	70 - 130	4	35
Ethylbenzene	0.0172		0.100	0.09054		mg/Kg		73	70 - 130	1	35
m-Xylene & p-Xylene	0.0379	F1	0.201	0.1745	F1	mg/Kg		68	70 - 130	5	35
o-Xylene	0.0285	F1	0.100	0.08500	F1	mg/Kg		56	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-62314/5-A

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62314

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:20	09/13/23 22:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:20	09/13/23 22:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:20	09/13/23 22:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/23 09:20	09/13/23 22:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/23 09:20	09/13/23 22:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/23 09:20	09/13/23 22:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	09/13/23 09:20	09/13/23 22:17	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/13/23 09:20	09/13/23 22:17	1

Lab Sample ID: LCS 880-62314/1-A

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1081		mg/Kg		108	70 - 130
Toluene	0.100	0.1028		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09180		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1930		mg/Kg		96	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-62314/1-A

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09599		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: LCSD 880-62314/2-A

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62314

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1108		mg/Kg		111	70 - 130	2	35
Toluene	0.100	0.1145		mg/Kg		114	70 - 130	11	35
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2259		mg/Kg		113	70 - 130	16	35
o-Xylene	0.100	0.1125		mg/Kg		113	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-33172-21 MS

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: SW-5 (3')

Prep Type: Total/NA

Prep Batch: 62314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.0998	0.03198	F1	mg/Kg		32	70 - 130
Toluene	<0.00199	U F1 F2	0.0998	0.02921	F1	mg/Kg		29	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.02400	F1	mg/Kg		24	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.04339	F1	mg/Kg		22	70 - 130
o-Xylene	<0.00199	U F1 F2	0.0998	0.02337	F1	mg/Kg		23	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-33172-21 MSD

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: SW-5 (3')

Prep Type: Total/NA

Prep Batch: 62314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.100	0.01762	F1 F2	mg/Kg		18	70 - 130	58	35
Toluene	<0.00199	U F1 F2	0.100	0.01871	F1 F2	mg/Kg		19	70 - 130	44	35
Ethylbenzene	<0.00199	U F1 F2	0.100	0.01614	F1 F2	mg/Kg		16	70 - 130	39	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.201	0.02927	F1 F2	mg/Kg		15	70 - 130	39	35
o-Xylene	<0.00199	U F1 F2	0.100	0.01623	F1 F2	mg/Kg		16	70 - 130	36	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-33172-21 MSD

Matrix: Solid

Analysis Batch: 62312

Client Sample ID: SW-5 (3')

Prep Type: Total/NA

Prep Batch: 62314

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	50	S1-	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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

Lab Sample ID: MB 880-62324/1-A

Matrix: Solid

Analysis Batch: 62306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62324

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/23 10:15	09/13/23 19:58	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/23 10:15	09/13/23 19:58	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/23 10:15	09/13/23 19:58	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	116		70 - 130				09/13/23 10:15	09/13/23 19:58	1	
o-Terphenyl	123		70 - 130				09/13/23 10:15	09/13/23 19:58	1	

Lab Sample ID: LCS 880-62324/2-A

Matrix: Solid

Analysis Batch: 62306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62324

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	994.3		mg/Kg		99		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	793.4		mg/Kg		79		70 - 130		
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	82		70 - 130							
o-Terphenyl	90		70 - 130							

Lab Sample ID: LCSD 880-62324/3-A

Matrix: Solid

Analysis Batch: 62306

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62324

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1045		mg/Kg		105		70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	905.5		mg/Kg		91		70 - 130	13	20
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	92		70 - 130							
o-Terphenyl	104		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-33172-1 MS

Matrix: Solid

Analysis Batch: 62306

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 62324

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1 F2	991	51.91	F1	mg/Kg		2	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	991	<49.6	U F1	mg/Kg		0.1	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	3	S1-	70 - 130								
o-Terphenyl	0.5	S1-	70 - 130								

Lab Sample ID: 880-33172-1 MSD

Matrix: Solid

Analysis Batch: 62306

Client Sample ID: CS-1 (4.5')

Prep Type: Total/NA

Prep Batch: 62324

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1 F2	991	866.9	F2	mg/Kg		84	70 - 130	177	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	991	1012	F2	mg/Kg		98	70 - 130	184	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	129		70 - 130								
o-Terphenyl	121		70 - 130								

Lab Sample ID: MB 880-62325/1-A

Matrix: Solid

Analysis Batch: 62304

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62325

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/13/23 10:18	09/13/23 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/13/23 10:18	09/13/23 19:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/13/23 10:18	09/13/23 19:58	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	142	S1+	70 - 130				09/13/23 10:18	09/13/23 19:58	1
o-Terphenyl	125		70 - 130				09/13/23 10:18	09/13/23 19:58	1

Lab Sample ID: LCS 880-62325/2-A

Matrix: Solid

Analysis Batch: 62304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62325

Analyte	Spike	LCS	Unit	D	%Rec	%Rec
	Added	Result				Qualifier
Gasoline Range Organics (GRO)-C6-C10	1000	1064	mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	984.2	mg/Kg		98	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-62325/2-A

Matrix: Solid

Analysis Batch: 62304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62325

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-62325/3-A

Matrix: Solid

Analysis Batch: 62304

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62325

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1056		mg/Kg		106	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	941.6		mg/Kg		94	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-33139-A-54-B MS

Matrix: Solid

Analysis Batch: 62304

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 62325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	995	1087		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U	995	929.2		mg/Kg		93	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-33139-A-54-C MSD

Matrix: Solid

Analysis Batch: 62304

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62325

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	<49.6	U	995	1247		mg/Kg		122	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.6	U	995	1092		mg/Kg		110	70 - 130	16	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	113		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62315/1-A

Matrix: Solid

Analysis Batch: 62390

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			09/13/23 15:33	1

Lab Sample ID: LCS 880-62315/2-A

Matrix: Solid

Analysis Batch: 62390

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.2		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-62315/3-A

Matrix: Solid

Analysis Batch: 62390

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	240.6		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-33172-1 MS

Matrix: Solid

Analysis Batch: 62390

Client Sample ID: CS-1 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	31.5		250	286.6		mg/Kg		102	90 - 110

Lab Sample ID: 880-33172-1 MSD

Matrix: Solid

Analysis Batch: 62390

Client Sample ID: CS-1 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	31.5		250	282.8		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-33172-11 MS

Matrix: Solid

Analysis Batch: 62390

Client Sample ID: CS-11 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	88.2	F1	248	293.6	F1	mg/Kg		83	90 - 110

Lab Sample ID: 880-33172-11 MSD

Matrix: Solid

Analysis Batch: 62390

Client Sample ID: CS-11 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	88.2	F1	248	280.9	F1	mg/Kg		78	90 - 110	4	20

Lab Sample ID: MB 880-62316/1-A

Matrix: Solid

Analysis Batch: 62391

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			09/13/23 19:27	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-62316/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 62391

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	245.4		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-62316/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 62391

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	240.8		mg/Kg		96	90 - 110	2	20

Lab Sample ID: 880-33172-21 MS

Client Sample ID: SW-5 (3')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 62391

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	93.3	F1	250	289.4	F1	mg/Kg		78	90 - 110		

Lab Sample ID: 880-33172-21 MSD

Client Sample ID: SW-5 (3')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 62391

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	93.3	F1	250	290.5	F1	mg/Kg		79	90 - 110	0	20

QC Association Summary

Client: Carmona Resources

Job ID: 880-33172-1

Project/Site: Copperhead Fee A 3H (5/27/23)

SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 62312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1	CS-1 (4.5')	Total/NA	Solid	8021B	62313
880-33172-2	CS-2 (4.5')	Total/NA	Solid	8021B	62313
880-33172-3	CS-3 (4.5')	Total/NA	Solid	8021B	62313
880-33172-4	CS-4 (4.5')	Total/NA	Solid	8021B	62313
880-33172-5	CS-5 (4.5')	Total/NA	Solid	8021B	62313
880-33172-6	CS-6 (3')	Total/NA	Solid	8021B	62313
880-33172-7	CS-7 (3')	Total/NA	Solid	8021B	62313
880-33172-8	CS-8 (3')	Total/NA	Solid	8021B	62313
880-33172-9	CS-9 (3')	Total/NA	Solid	8021B	62313
880-33172-10	CS-10 (3')	Total/NA	Solid	8021B	62313
880-33172-11	CS-11 (3')	Total/NA	Solid	8021B	62313
880-33172-12	CS-12 (5.5')	Total/NA	Solid	8021B	62313
880-33172-13	CS-13 (5.5')	Total/NA	Solid	8021B	62313
880-33172-14	CS-14 (5.5')	Total/NA	Solid	8021B	62313
880-33172-15	CS-15 (5.5')	Total/NA	Solid	8021B	62313
880-33172-16	CS-16 (5.5')	Total/NA	Solid	8021B	62313
880-33172-17	SW-1 (1.5')	Total/NA	Solid	8021B	62313
880-33172-18	SW-2 (4.5')	Total/NA	Solid	8021B	62313
880-33172-19	SW-3 (4.5')	Total/NA	Solid	8021B	62313
880-33172-20	SW-4 (4.5')	Total/NA	Solid	8021B	62313
880-33172-21	SW-5 (3')	Total/NA	Solid	8021B	62314
880-33172-22	SW-6 (2.5')	Total/NA	Solid	8021B	62314
880-33172-23	SW-7 (3')	Total/NA	Solid	8021B	62314
880-33172-24	SW-8 (2.5')	Total/NA	Solid	8021B	62314
880-33172-25	SW-9 (5.5')	Total/NA	Solid	8021B	62314
880-33172-26	SW-10 (5.5')	Total/NA	Solid	8021B	62314
880-33172-27	SW-11 (5.5')	Total/NA	Solid	8021B	62314
MB 880-62313/5-A	Method Blank	Total/NA	Solid	8021B	62313
MB 880-62314/5-A	Method Blank	Total/NA	Solid	8021B	62314
LCS 880-62313/1-A	Lab Control Sample	Total/NA	Solid	8021B	62313
LCS 880-62314/1-A	Lab Control Sample	Total/NA	Solid	8021B	62314
LCSD 880-62313/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62313
LCSD 880-62314/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62314
880-33172-1 MS	CS-1 (4.5')	Total/NA	Solid	8021B	62313
880-33172-1 MSD	CS-1 (4.5')	Total/NA	Solid	8021B	62313
880-33172-21 MS	SW-5 (3')	Total/NA	Solid	8021B	62314
880-33172-21 MSD	SW-5 (3')	Total/NA	Solid	8021B	62314

Prep Batch: 62313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1	CS-1 (4.5')	Total/NA	Solid	5035	
880-33172-2	CS-2 (4.5')	Total/NA	Solid	5035	
880-33172-3	CS-3 (4.5')	Total/NA	Solid	5035	
880-33172-4	CS-4 (4.5')	Total/NA	Solid	5035	
880-33172-5	CS-5 (4.5')	Total/NA	Solid	5035	
880-33172-6	CS-6 (3')	Total/NA	Solid	5035	
880-33172-7	CS-7 (3')	Total/NA	Solid	5035	
880-33172-8	CS-8 (3')	Total/NA	Solid	5035	
880-33172-9	CS-9 (3')	Total/NA	Solid	5035	
880-33172-10	CS-10 (3')	Total/NA	Solid	5035	
880-33172-11	CS-11 (3')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Prep Batch: 62313 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-12	CS-12 (5.5')	Total/NA	Solid	5035	
880-33172-13	CS-13 (5.5')	Total/NA	Solid	5035	
880-33172-14	CS-14 (5.5')	Total/NA	Solid	5035	
880-33172-15	CS-15 (5.5')	Total/NA	Solid	5035	
880-33172-16	CS-16 (5.5')	Total/NA	Solid	5035	
880-33172-17	SW-1 (1.5')	Total/NA	Solid	5035	
880-33172-18	SW-2 (4.5')	Total/NA	Solid	5035	
880-33172-19	SW-3 (4.5')	Total/NA	Solid	5035	
880-33172-20	SW-4 (4.5')	Total/NA	Solid	5035	
MB 880-62313/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62313/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62313/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33172-1 MS	CS-1 (4.5')	Total/NA	Solid	5035	
880-33172-1 MSD	CS-1 (4.5')	Total/NA	Solid	5035	

Prep Batch: 62314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-21	SW-5 (3')	Total/NA	Solid	5035	
880-33172-22	SW-6 (2.5')	Total/NA	Solid	5035	
880-33172-23	SW-7 (3')	Total/NA	Solid	5035	
880-33172-24	SW-8 (2.5')	Total/NA	Solid	5035	
880-33172-25	SW-9 (5.5')	Total/NA	Solid	5035	
880-33172-26	SW-10 (5.5')	Total/NA	Solid	5035	
880-33172-27	SW-11 (5.5')	Total/NA	Solid	5035	
MB 880-62314/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62314/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62314/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-33172-21 MS	SW-5 (3')	Total/NA	Solid	5035	
880-33172-21 MSD	SW-5 (3')	Total/NA	Solid	5035	

Analysis Batch: 62438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1	CS-1 (4.5')	Total/NA	Solid	Total BTEX	
880-33172-2	CS-2 (4.5')	Total/NA	Solid	Total BTEX	
880-33172-3	CS-3 (4.5')	Total/NA	Solid	Total BTEX	
880-33172-4	CS-4 (4.5')	Total/NA	Solid	Total BTEX	
880-33172-5	CS-5 (4.5')	Total/NA	Solid	Total BTEX	
880-33172-6	CS-6 (3')	Total/NA	Solid	Total BTEX	
880-33172-7	CS-7 (3')	Total/NA	Solid	Total BTEX	
880-33172-8	CS-8 (3')	Total/NA	Solid	Total BTEX	
880-33172-9	CS-9 (3')	Total/NA	Solid	Total BTEX	
880-33172-10	CS-10 (3')	Total/NA	Solid	Total BTEX	
880-33172-11	CS-11 (3')	Total/NA	Solid	Total BTEX	
880-33172-12	CS-12 (5.5')	Total/NA	Solid	Total BTEX	
880-33172-13	CS-13 (5.5')	Total/NA	Solid	Total BTEX	
880-33172-14	CS-14 (5.5')	Total/NA	Solid	Total BTEX	
880-33172-15	CS-15 (5.5')	Total/NA	Solid	Total BTEX	
880-33172-16	CS-16 (5.5')	Total/NA	Solid	Total BTEX	
880-33172-17	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-33172-18	SW-2 (4.5')	Total/NA	Solid	Total BTEX	
880-33172-19	SW-3 (4.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 62438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-20	SW-4 (4.5')	Total/NA	Solid	Total BTEX	
880-33172-21	SW-5 (3')	Total/NA	Solid	Total BTEX	
880-33172-22	SW-6 (2.5')	Total/NA	Solid	Total BTEX	
880-33172-23	SW-7 (3')	Total/NA	Solid	Total BTEX	
880-33172-24	SW-8 (2.5')	Total/NA	Solid	Total BTEX	
880-33172-25	SW-9 (5.5')	Total/NA	Solid	Total BTEX	
880-33172-26	SW-10 (5.5')	Total/NA	Solid	Total BTEX	
880-33172-27	SW-11 (5.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 62304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-21	SW-5 (3')	Total/NA	Solid	8015B NM	62325
880-33172-22	SW-6 (2.5')	Total/NA	Solid	8015B NM	62325
880-33172-23	SW-7 (3')	Total/NA	Solid	8015B NM	62325
880-33172-24	SW-8 (2.5')	Total/NA	Solid	8015B NM	62325
880-33172-25	SW-9 (5.5')	Total/NA	Solid	8015B NM	62325
880-33172-26	SW-10 (5.5')	Total/NA	Solid	8015B NM	62325
880-33172-27	SW-11 (5.5')	Total/NA	Solid	8015B NM	62325
MB 880-62325/1-A	Method Blank	Total/NA	Solid	8015B NM	62325
LCS 880-62325/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62325
LCSD 880-62325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62325
880-33139-A-54-B MS	Matrix Spike	Total/NA	Solid	8015B NM	62325
880-33139-A-54-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	62325

Analysis Batch: 62306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1	CS-1 (4.5')	Total/NA	Solid	8015B NM	62324
880-33172-2	CS-2 (4.5')	Total/NA	Solid	8015B NM	62324
880-33172-3	CS-3 (4.5')	Total/NA	Solid	8015B NM	62324
880-33172-4	CS-4 (4.5')	Total/NA	Solid	8015B NM	62324
880-33172-5	CS-5 (4.5')	Total/NA	Solid	8015B NM	62324
880-33172-6	CS-6 (3')	Total/NA	Solid	8015B NM	62324
880-33172-7	CS-7 (3')	Total/NA	Solid	8015B NM	62324
880-33172-8	CS-8 (3')	Total/NA	Solid	8015B NM	62324
880-33172-9	CS-9 (3')	Total/NA	Solid	8015B NM	62324
880-33172-10	CS-10 (3')	Total/NA	Solid	8015B NM	62324
880-33172-11	CS-11 (3')	Total/NA	Solid	8015B NM	62324
880-33172-12	CS-12 (5.5')	Total/NA	Solid	8015B NM	62324
880-33172-13	CS-13 (5.5')	Total/NA	Solid	8015B NM	62324
880-33172-14	CS-14 (5.5')	Total/NA	Solid	8015B NM	62324
880-33172-15	CS-15 (5.5')	Total/NA	Solid	8015B NM	62324
880-33172-16	CS-16 (5.5')	Total/NA	Solid	8015B NM	62324
880-33172-17	SW-1 (1.5')	Total/NA	Solid	8015B NM	62324
880-33172-18	SW-2 (4.5')	Total/NA	Solid	8015B NM	62324
880-33172-19	SW-3 (4.5')	Total/NA	Solid	8015B NM	62324
880-33172-20	SW-4 (4.5')	Total/NA	Solid	8015B NM	62324
MB 880-62324/1-A	Method Blank	Total/NA	Solid	8015B NM	62324
LCS 880-62324/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62324
LCSD 880-62324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62324

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 62306 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1 MS	CS-1 (4.5')	Total/NA	Solid	8015B NM	62324
880-33172-1 MSD	CS-1 (4.5')	Total/NA	Solid	8015B NM	62324

Prep Batch: 62324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1	CS-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-33172-2	CS-2 (4.5')	Total/NA	Solid	8015NM Prep	
880-33172-3	CS-3 (4.5')	Total/NA	Solid	8015NM Prep	
880-33172-4	CS-4 (4.5')	Total/NA	Solid	8015NM Prep	
880-33172-5	CS-5 (4.5')	Total/NA	Solid	8015NM Prep	
880-33172-6	CS-6 (3')	Total/NA	Solid	8015NM Prep	
880-33172-7	CS-7 (3')	Total/NA	Solid	8015NM Prep	
880-33172-8	CS-8 (3')	Total/NA	Solid	8015NM Prep	
880-33172-9	CS-9 (3')	Total/NA	Solid	8015NM Prep	
880-33172-10	CS-10 (3')	Total/NA	Solid	8015NM Prep	
880-33172-11	CS-11 (3')	Total/NA	Solid	8015NM Prep	
880-33172-12	CS-12 (5.5')	Total/NA	Solid	8015NM Prep	
880-33172-13	CS-13 (5.5')	Total/NA	Solid	8015NM Prep	
880-33172-14	CS-14 (5.5')	Total/NA	Solid	8015NM Prep	
880-33172-15	CS-15 (5.5')	Total/NA	Solid	8015NM Prep	
880-33172-16	CS-16 (5.5')	Total/NA	Solid	8015NM Prep	
880-33172-17	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-33172-18	SW-2 (4.5')	Total/NA	Solid	8015NM Prep	
880-33172-19	SW-3 (4.5')	Total/NA	Solid	8015NM Prep	
880-33172-20	SW-4 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-62324/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62324/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33172-1 MS	CS-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-33172-1 MSD	CS-1 (4.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 62325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-21	SW-5 (3')	Total/NA	Solid	8015NM Prep	
880-33172-22	SW-6 (2.5')	Total/NA	Solid	8015NM Prep	
880-33172-23	SW-7 (3')	Total/NA	Solid	8015NM Prep	
880-33172-24	SW-8 (2.5')	Total/NA	Solid	8015NM Prep	
880-33172-25	SW-9 (5.5')	Total/NA	Solid	8015NM Prep	
880-33172-26	SW-10 (5.5')	Total/NA	Solid	8015NM Prep	
880-33172-27	SW-11 (5.5')	Total/NA	Solid	8015NM Prep	
MB 880-62325/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62325/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33139-A-54-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-33139-A-54-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1	CS-1 (4.5')	Total/NA	Solid	8015 NM	
880-33172-2	CS-2 (4.5')	Total/NA	Solid	8015 NM	
880-33172-3	CS-3 (4.5')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 62427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-4	CS-4 (4.5')	Total/NA	Solid	8015 NM	
880-33172-5	CS-5 (4.5')	Total/NA	Solid	8015 NM	
880-33172-6	CS-6 (3')	Total/NA	Solid	8015 NM	
880-33172-7	CS-7 (3')	Total/NA	Solid	8015 NM	
880-33172-8	CS-8 (3')	Total/NA	Solid	8015 NM	
880-33172-9	CS-9 (3')	Total/NA	Solid	8015 NM	
880-33172-10	CS-10 (3')	Total/NA	Solid	8015 NM	
880-33172-11	CS-11 (3')	Total/NA	Solid	8015 NM	
880-33172-12	CS-12 (5.5')	Total/NA	Solid	8015 NM	
880-33172-13	CS-13 (5.5')	Total/NA	Solid	8015 NM	
880-33172-14	CS-14 (5.5')	Total/NA	Solid	8015 NM	
880-33172-15	CS-15 (5.5')	Total/NA	Solid	8015 NM	
880-33172-16	CS-16 (5.5')	Total/NA	Solid	8015 NM	
880-33172-17	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-33172-18	SW-2 (4.5')	Total/NA	Solid	8015 NM	
880-33172-19	SW-3 (4.5')	Total/NA	Solid	8015 NM	
880-33172-20	SW-4 (4.5')	Total/NA	Solid	8015 NM	
880-33172-21	SW-5 (3')	Total/NA	Solid	8015 NM	
880-33172-22	SW-6 (2.5')	Total/NA	Solid	8015 NM	
880-33172-23	SW-7 (3')	Total/NA	Solid	8015 NM	
880-33172-24	SW-8 (2.5')	Total/NA	Solid	8015 NM	
880-33172-25	SW-9 (5.5')	Total/NA	Solid	8015 NM	
880-33172-26	SW-10 (5.5')	Total/NA	Solid	8015 NM	
880-33172-27	SW-11 (5.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 62315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1	CS-1 (4.5')	Soluble	Solid	DI Leach	
880-33172-2	CS-2 (4.5')	Soluble	Solid	DI Leach	
880-33172-3	CS-3 (4.5')	Soluble	Solid	DI Leach	
880-33172-4	CS-4 (4.5')	Soluble	Solid	DI Leach	
880-33172-5	CS-5 (4.5')	Soluble	Solid	DI Leach	
880-33172-6	CS-6 (3')	Soluble	Solid	DI Leach	
880-33172-7	CS-7 (3')	Soluble	Solid	DI Leach	
880-33172-8	CS-8 (3')	Soluble	Solid	DI Leach	
880-33172-9	CS-9 (3')	Soluble	Solid	DI Leach	
880-33172-10	CS-10 (3')	Soluble	Solid	DI Leach	
880-33172-11	CS-11 (3')	Soluble	Solid	DI Leach	
880-33172-12	CS-12 (5.5')	Soluble	Solid	DI Leach	
880-33172-13	CS-13 (5.5')	Soluble	Solid	DI Leach	
880-33172-14	CS-14 (5.5')	Soluble	Solid	DI Leach	
880-33172-15	CS-15 (5.5')	Soluble	Solid	DI Leach	
880-33172-16	CS-16 (5.5')	Soluble	Solid	DI Leach	
880-33172-17	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-33172-18	SW-2 (4.5')	Soluble	Solid	DI Leach	
880-33172-19	SW-3 (4.5')	Soluble	Solid	DI Leach	
880-33172-20	SW-4 (4.5')	Soluble	Solid	DI Leach	
MB 880-62315/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62315/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 62315 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-62315/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33172-1 MS	CS-1 (4.5')	Soluble	Solid	DI Leach	
880-33172-1 MSD	CS-1 (4.5')	Soluble	Solid	DI Leach	
880-33172-11 MS	CS-11 (3')	Soluble	Solid	DI Leach	
880-33172-11 MSD	CS-11 (3')	Soluble	Solid	DI Leach	

Leach Batch: 62316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-21	SW-5 (3')	Soluble	Solid	DI Leach	
880-33172-22	SW-6 (2.5')	Soluble	Solid	DI Leach	
880-33172-23	SW-7 (3')	Soluble	Solid	DI Leach	
880-33172-24	SW-8 (2.5')	Soluble	Solid	DI Leach	
880-33172-25	SW-9 (5.5')	Soluble	Solid	DI Leach	
880-33172-26	SW-10 (5.5')	Soluble	Solid	DI Leach	
880-33172-27	SW-11 (5.5')	Soluble	Solid	DI Leach	
MB 880-62316/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62316/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62316/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-33172-21 MS	SW-5 (3')	Soluble	Solid	DI Leach	
880-33172-21 MSD	SW-5 (3')	Soluble	Solid	DI Leach	

Analysis Batch: 62390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-1	CS-1 (4.5')	Soluble	Solid	300.0	62315
880-33172-2	CS-2 (4.5')	Soluble	Solid	300.0	62315
880-33172-3	CS-3 (4.5')	Soluble	Solid	300.0	62315
880-33172-4	CS-4 (4.5')	Soluble	Solid	300.0	62315
880-33172-5	CS-5 (4.5')	Soluble	Solid	300.0	62315
880-33172-6	CS-6 (3')	Soluble	Solid	300.0	62315
880-33172-7	CS-7 (3')	Soluble	Solid	300.0	62315
880-33172-8	CS-8 (3')	Soluble	Solid	300.0	62315
880-33172-9	CS-9 (3')	Soluble	Solid	300.0	62315
880-33172-10	CS-10 (3')	Soluble	Solid	300.0	62315
880-33172-11	CS-11 (3')	Soluble	Solid	300.0	62315
880-33172-12	CS-12 (5.5')	Soluble	Solid	300.0	62315
880-33172-13	CS-13 (5.5')	Soluble	Solid	300.0	62315
880-33172-14	CS-14 (5.5')	Soluble	Solid	300.0	62315
880-33172-15	CS-15 (5.5')	Soluble	Solid	300.0	62315
880-33172-16	CS-16 (5.5')	Soluble	Solid	300.0	62315
880-33172-17	SW-1 (1.5')	Soluble	Solid	300.0	62315
880-33172-18	SW-2 (4.5')	Soluble	Solid	300.0	62315
880-33172-19	SW-3 (4.5')	Soluble	Solid	300.0	62315
880-33172-20	SW-4 (4.5')	Soluble	Solid	300.0	62315
MB 880-62315/1-A	Method Blank	Soluble	Solid	300.0	62315
LCS 880-62315/2-A	Lab Control Sample	Soluble	Solid	300.0	62315
LCSD 880-62315/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62315
880-33172-1 MS	CS-1 (4.5')	Soluble	Solid	300.0	62315
880-33172-1 MSD	CS-1 (4.5')	Soluble	Solid	300.0	62315
880-33172-11 MS	CS-11 (3')	Soluble	Solid	300.0	62315
880-33172-11 MSD	CS-11 (3')	Soluble	Solid	300.0	62315

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 62391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33172-21	SW-5 (3')	Soluble	Solid	300.0	62316
880-33172-22	SW-6 (2.5')	Soluble	Solid	300.0	62316
880-33172-23	SW-7 (3')	Soluble	Solid	300.0	62316
880-33172-24	SW-8 (2.5')	Soluble	Solid	300.0	62316
880-33172-25	SW-9 (5.5')	Soluble	Solid	300.0	62316
880-33172-26	SW-10 (5.5')	Soluble	Solid	300.0	62316
880-33172-27	SW-11 (5.5')	Soluble	Solid	300.0	62316
MB 880-62316/1-A	Method Blank	Soluble	Solid	300.0	62316
LCS 880-62316/2-A	Lab Control Sample	Soluble	Solid	300.0	62316
LCSD 880-62316/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62316
880-33172-21 MS	SW-5 (3')	Soluble	Solid	300.0	62316
880-33172-21 MSD	SW-5 (3')	Soluble	Solid	300.0	62316

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (4.5')

Lab Sample ID: 880-33172-1

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 12:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/13/23 21:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 15:53	CH	EET MID

Client Sample ID: CS-2 (4.5')

Lab Sample ID: 880-33172-2

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 12:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/13/23 22:12	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 16:13	CH	EET MID

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-33172-3

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 12:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/13/23 22:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 16:20	CH	EET MID

Client Sample ID: CS-4 (4.5')

Lab Sample ID: 880-33172-4

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 13:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (4.5')

Lab Sample ID: 880-33172-4

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/13/23 22:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 16:27	CH	EET MID

Client Sample ID: CS-5 (4.5')

Lab Sample ID: 880-33172-5

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 13:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/13/23 23:16	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 16:33	CH	EET MID

Client Sample ID: CS-6 (3')

Lab Sample ID: 880-33172-6

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 13:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/13/23 23:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 16:53	CH	EET MID

Client Sample ID: CS-7 (3')

Lab Sample ID: 880-33172-7

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 14:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/13/23 23:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (3')

Lab Sample ID: 880-33172-7

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 17:00	CH	EET MID

Client Sample ID: CS-8 (3')

Lab Sample ID: 880-33172-8

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 00:20	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 17:07	CH	EET MID

Client Sample ID: CS-9 (3')

Lab Sample ID: 880-33172-9

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 00:41	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 17:13	CH	EET MID

Client Sample ID: CS-10 (3')

Lab Sample ID: 880-33172-10

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 01:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 17:20	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-11 (3')

Lab Sample ID: 880-33172-11

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 16:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 01:45	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 17:27	CH	EET MID

Client Sample ID: CS-12 (5.5')

Lab Sample ID: 880-33172-12

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 16:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 02:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 17:47	CH	EET MID

Client Sample ID: CS-13 (5.5')

Lab Sample ID: 880-33172-13

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 17:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 02:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 17:53	CH	EET MID

Client Sample ID: CS-14 (5.5')

Lab Sample ID: 880-33172-14

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-14 (5.5')

Lab Sample ID: 880-33172-14

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 02:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 18:13	CH	EET MID

Client Sample ID: CS-15 (5.5')

Lab Sample ID: 880-33172-15

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 17:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 03:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 18:20	CH	EET MID

Client Sample ID: CS-16 (5.5')

Lab Sample ID: 880-33172-16

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 03:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 18:27	CH	EET MID

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-33172-17

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 03:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (1.5')**Lab Sample ID: 880-33172-17****Date Collected: 09/12/23 00:00****Matrix: Solid****Date Received: 09/13/23 08:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 18:33	CH	EET MID

Client Sample ID: SW-2 (4.5')**Lab Sample ID: 880-33172-18****Date Collected: 09/12/23 00:00****Matrix: Solid****Date Received: 09/13/23 08:35**

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 18:40	CH	EET MID

Client Sample ID: SW-3 (4.5')**Lab Sample ID: 880-33172-19****Date Collected: 09/12/23 00:00****Matrix: Solid****Date Received: 09/13/23 08:35**

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 19:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 04:35	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 18:47	CH	EET MID

Client Sample ID: SW-4 (4.5')**Lab Sample ID: 880-33172-20****Date Collected: 09/12/23 00:00****Matrix: Solid****Date Received: 09/13/23 08:35**

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	62313	09/13/23 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 19:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	62324	09/13/23 10:15	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62306	09/14/23 04:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62315	09/13/23 09:22	AG	EET MID
Soluble	Analysis	300.0		1			62390	09/13/23 18:53	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (3')

Lab Sample ID: 880-33172-21

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62314	09/13/23 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 22:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	62325	09/13/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62304	09/14/23 02:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	62316	09/13/23 09:25	AG	EET MID
Soluble	Analysis	300.0		1			62391	09/13/23 19:47	CH	EET MID

Client Sample ID: SW-6 (2.5')

Lab Sample ID: 880-33172-22

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62314	09/13/23 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 22:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	62325	09/13/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62304	09/14/23 03:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	62316	09/13/23 09:25	AG	EET MID
Soluble	Analysis	300.0		1			62391	09/13/23 20:07	CH	EET MID

Client Sample ID: SW-7 (3')

Lab Sample ID: 880-33172-23

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62314	09/13/23 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 23:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	62325	09/13/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62304	09/14/23 03:31	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	62316	09/13/23 09:25	AG	EET MID
Soluble	Analysis	300.0		1			62391	09/13/23 20:14	CH	EET MID

Client Sample ID: SW-8 (2.5')

Lab Sample ID: 880-33172-24

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62314	09/13/23 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/13/23 23:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-8 (2.5')

Lab Sample ID: 880-33172-24

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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			62427	09/14/23 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	62325	09/13/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62304	09/14/23 03:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	62316	09/13/23 09:25	AG	EET MID
Soluble	Analysis	300.0		1			62391	09/13/23 20:20	CH	EET MID

Client Sample ID: SW-9 (5.5')

Lab Sample ID: 880-33172-25

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62314	09/13/23 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/14/23 00:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	62325	09/13/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62304	09/14/23 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	62316	09/13/23 09:25	AG	EET MID
Soluble	Analysis	300.0		1			62391	09/13/23 20:27	CH	EET MID

Client Sample ID: SW-10 (5.5')

Lab Sample ID: 880-33172-26

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62314	09/13/23 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/14/23 00:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62325	09/13/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62304	09/14/23 04:35	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	62316	09/13/23 09:25	AG	EET MID
Soluble	Analysis	300.0		1			62391	09/13/23 20:47	CH	EET MID

Client Sample ID: SW-11 (5.5')

Lab Sample ID: 880-33172-27

Date Collected: 09/12/23 00:00

Matrix: Solid

Date Received: 09/13/23 08:35

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	62314	09/13/23 09:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62312	09/14/23 00:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62438	09/14/23 12:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			62427	09/14/23 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	62325	09/13/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62304	09/14/23 04:56	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-11 (5.5')
Date Collected: 09/12/23 00:00
Date Received: 09/13/23 08:35

Lab Sample ID: 880-33172-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	62316	09/13/23 09:25	AG	EET MID
Soluble	Analysis	300.0		1			62391	09/13/23 20:54	CH	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

- 1
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Method Summary

Client: Carmona Resources

Job ID: 880-33172-1

Project/Site: Copperhead Fee A 3H (5/27/23)

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: Copperhead Fee A 3H (5/27/23)

Job ID: 880-33172-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-33172-1	CS-1 (4.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-2	CS-2 (4.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-3	CS-3 (4.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-4	CS-4 (4.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-5	CS-5 (4.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-6	CS-6 (3')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-7	CS-7 (3')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-8	CS-8 (3')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-9	CS-9 (3')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-10	CS-10 (3')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-11	CS-11 (3')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-12	CS-12 (5.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-13	CS-13 (5.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-14	CS-14 (5.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-15	CS-15 (5.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-16	CS-16 (5.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-17	SW-1 (1.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-18	SW-2 (4.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-19	SW-3 (4.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-20	SW-4 (4.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-21	SW-5 (3')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-22	SW-6 (2.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-23	SW-7 (3')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-24	SW-8 (2.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-25	SW-9 (5.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-26	SW-10 (5.5')	Solid	09/12/23 00:00	09/13/23 08:35
880-33172-27	SW-11 (5.5')	Solid	09/12/23 00:00	09/13/23 08:35

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Chain of Custody



880-33172 Chain of Custody

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

Project Name	Copperhead Fee A 3H (5/27/23)	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number	2053	Due Date	24 HR		
Project Location	Eddy County, New Mexico				
Sampler's Name	JM				
PO #					

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

Project Name		Copperhead Fee A 3H (5/27/23)		Turn Around			ANALYSIS REQUEST										Preservative Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Project Number	2053	☐ Routine	☒ Rush	Due Date	24 HR	Pres. Code																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

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

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	9-13-23		9/13/23

Craig's Custody

Work Order No: 33172

Page 2 of 3

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	432-813-6623	Email	incarmona@carmonaresources.com

Work Order Comments	
Program: UST/ST ☐ RRP ☐ Brownfields ☐ RC ☐ pfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name		Copperhead Fee A 3H (9/27/23)		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number	2053	☐ Routine	☒ Rush	Project Location	Eddy County, New Mexico		Due Date	24 HR													None NO	DI Water H ₂ O		
Sample's Name	JM																	Cool Cool	MeOH Me					
PO #																		HCL HC	HNO ₃ HN					
SAMPLE RECEIPT	Temp Blank	Yes	No	Thermometer ID	Yes	No													H ₂ SO ₄ H ₂	NaOH Na				
	Received Intact	Yes	No	Correction Factor	Yes	No													H ₃ PO ₄ HP					
	Cooler Custody Seals	Yes	No	Temperature Reading	Yes	No													NaHSO ₄ NABIS					
	Sample Custody Seals	Yes	No	Corrected Temperature	Yes	No													Na ₂ S ₂ O ₃ NaSO ₃					
	Total Containers																		Zn Acetate+NaOH Zn					
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments				
CS-11 (3')		9/12/2023		X		Comp	1	X	X	X														
CS-12 (5')		9/12/2023		X		Comp	1	X	X	X														
CS-13 (5')		9/12/2023		X		Comp	1	X	X	X														
CS-14 (5')		9/12/2023		X		Comp	1	X	X	X														
CS-15 (5')		9/12/2023		X		Comp	1	X	X	X														
CS-16 (5')		9/12/2023		X		Comp	1	X	X	X														
SW-1 (1')		9/12/2023		X		Comp	1	X	X	X														
SW-2 (4')		9/12/2023		X		Comp	1	X	X	X														
SW-3 (4')		9/12/2023		X		Comp	1	X	X	X														
SW-4 (4')		9/12/2023		X		Comp	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
	4-13-23		9/13/23 835

Crain of C₁ study

Loc: 880
Work Order No: 33172

Page 3 of 3

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@carmonarresources.com

Program: UST/PST ☐ PRP ☐ ROW/Fields ☐ RC ☐ Partund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	Deliverables EDD ☐ ADAPT ☐ Other ☐

Project Name	Copperhead Fee A 3H (5/27/23)	Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number	2053	Due Date	24 HR														None NO	DI Water H ₂ O		
Project Location	Eddy County, New Mexico																Cool Cool	MeOH Me		
Sampler's Name	JM																HCL HC	HNO ₃ HN		
PO #																	H ₂ SO ₄ H ₂	NaOH Na		
SAMPLE RECEIPT	Temp Blank	Yes No	Thermometer ID	Yes No	Wet Ice	Yes No													H ₃ PO ₄ HP	
Received Intact:	Yes No																		NaHSO ₄ NABIS	
Cooler Custody Seals	Yes No N/A		Correction Factor																Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes No N/A		Temperature Reading																Zn Acetate+NaOH Zn	
Total Containers			Corrected Temperature																NaOH+Ascorbic Acid SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
SW-5 (3')	9/12/2023		X		Comp	1	X	X	X											
SW-6 (2.5')	9/12/2023		X		Comp	1	X	X	X											
SW-7 (3')	9/12/2023		X		Comp	1	X	X	X											
SW-8 (2.5')	9/12/2023		X		Comp	1	X	X	X											
SW-9 (5.5')	9/12/2023		X		Comp	1	X	X	X											
SW-10 (5.5')	9/12/2023		X		Comp	1	X	X	X											
SW-11 (5.5')	9/12/2023		X		Comp	1	X	X	X											

Comments: Email to Mike Carmona / mcarmona@carmonarresources.com and Conner Moehring / cmoehring@carmonarresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	9-13-23		9/13/23

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-33172-1

SDG Number: Eddy County, New Mexico

Login Number: 33172

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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

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
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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

CONDITIONS

Action 274125

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 274125
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2317028374 COPPERHEAD FEE A 003H, thank you. This Remediation Closure Report is approved. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc..., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/20/2024