

L48 Spill Volume Estimate Form

Received by OCD: 6/10/2025 10:29:19 AM

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Facility Name & Number:	Asio Otis
Asset Area:	pasture
Release Discovery Date & Time:	6/22/2023
Release Type:	Produced Water
Provide any known details about the event:	Flex Line rupture on line going to SWD

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	87.0	201.0	1.00	11.30%	259.391	29.311			
Rectangle B	148.0	69.0	0.25	11.30%	37.870	4.279			
Rectangle C	0.0	0.0	0.00	11.30%	0.000	0.000			
Rectangle D					0.000	0.000			
Rectangle E					0.000	0.000			
Rectangle F					0.000	0.000			
Rectangle G					0.000	0.000			
Rectangle H					0.000	0.000			
Rectangle I					0.000	0.000			
Rectangle J					0.000	0.000			

Released to Imaging: 7/21/2025 11:07:53 AM

Total Volume Release:

33.590

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Asio Otus CTB (06.22.23)
Incident # NAPP2319138455
Eddy County, New Mexico
Unit O Sec 13 T26S R26E
32.0365°, -104.2439°

Produced Water Release
Point of Release: Flex Line Rupture
Release Date: 06.22.23
Volume Released: 33.59 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

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

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

**TABLE OF CONTENTS****1.0 SITE INFORMATION AND BACKGROUND****2.0 SITE CHARACTERIZATION AND GROUNDWATER****3.0 NMAC REGULATORY CRITERIA****4.0 SITE ASSESSMENT ACTIVITIES****5.0 REMEDIATION ACTIVITIES****6.0 RECLAMATION ACTIVITIES****7.0 CONCLUSIONS****FIGURES****FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC****FIGURE 3 SAMPLE LOCATION FIGURE 4 EXCAVATION****FIGURE 5 RECLAMATION****APPENDICES****APPENDIX A TABLES****APPENDIX B PHOTOS****APPENDIX C INITIAL AND FINAL C-141/NMOCD CORRESPONDENCE****APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER****APPENDIX E LABORATORY REPORTS****APPENDIX F SOIL SURVEY AND MAP**



June 10, 2024

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

Re: Closure Report
Asio Otus CTB (06.22.23)
Concho Operating, LLC
Incident # NAPP2319138455
Site Location: Unit O, S13, T26S, R26E
(Lat 32.0365°, Long -104.2439°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for the Asio Otus CTB. The site is located at 32.0365°, -104.2439° within Unit O, S13, T26S, R26E, 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 June 22, 2023, caused by a flex line rupture due to corrosion. It resulted in the release of approximately thirty-three point-five-nine (33.59) barrels of produced water, with zero (0) barrels of produced water recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.15 miles North of the site in S12, T26S, R27E and was drilled in 2018. The well has a reported depth to groundwater of 12.60 feet below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On July 31, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of six (6) sample points (S-1 through S-6) and six (6) horizontal samples (H-1 through H-6) were advanced to depths ranging from the surface to 4' bgs within and surrounding the release

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area to evaluate the vertical and horizontal extent of contamination. See Figure 3 for the soil 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 in all areas except for the areas of S-1, S-2, and S-6; all of which encountered a dense geological formation ranging from 1' to 4' bgs. The area of S-1 showed elevated chloride levels ranging from 2,670 mg/kg to 14,900 mg/kg from surface to 4' bgs. The area of S-2 showed elevated chloride levels ranging from 18,100 mg/kg to 20,700 mg/kg from surface to 3' bgs. The area of S-6 showed elevated total TPH levels ranging from 769 mg/kg to 1,300 mg/kg from surface to 1' bgs. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-6 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on October 6, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of thirty-five (35) confirmation floor samples were collected (CS-1 through CS-35), and sixteen (16) sidewall samples (SW-1 through SW-16) 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 reclamation and 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. To ensure that the backfill material was free of any contaminants, a composite sample was collected and sent off to Eurofins Laboratories in Midland, Texas for chemical analysis. The sample was analyzed for TPH by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300. Refer to Table 2 for the analytical results.

Approximately 879 cubic yards of material were excavated and transported offsite for proper disposal.

As requested by Robert Hamlet, Carmona Resources went back to the location to collect 200 square foot composite confirmation samples from the areas of S-4 and S-5. To further prove the area is clean and below the most stringent threshold established for this site. Please see Appendix C for the email correspondence. Please refer to Figure 4A and Figure 4B for the revised sample location map. All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

6.0 Reclamation Activities

The site was re-seeded via hand broadcasting on October 19, 2023, to help aid the growth process. Topsoil matching the surrounding areas was raked back on top of the seed after being broadcast. See Figure 5 for the reclamation area. The seed mixture used was the BLM Seed Mixture 2. See Appendix F for soil survey and map.

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7.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Mike Carmona
Environmental Manager

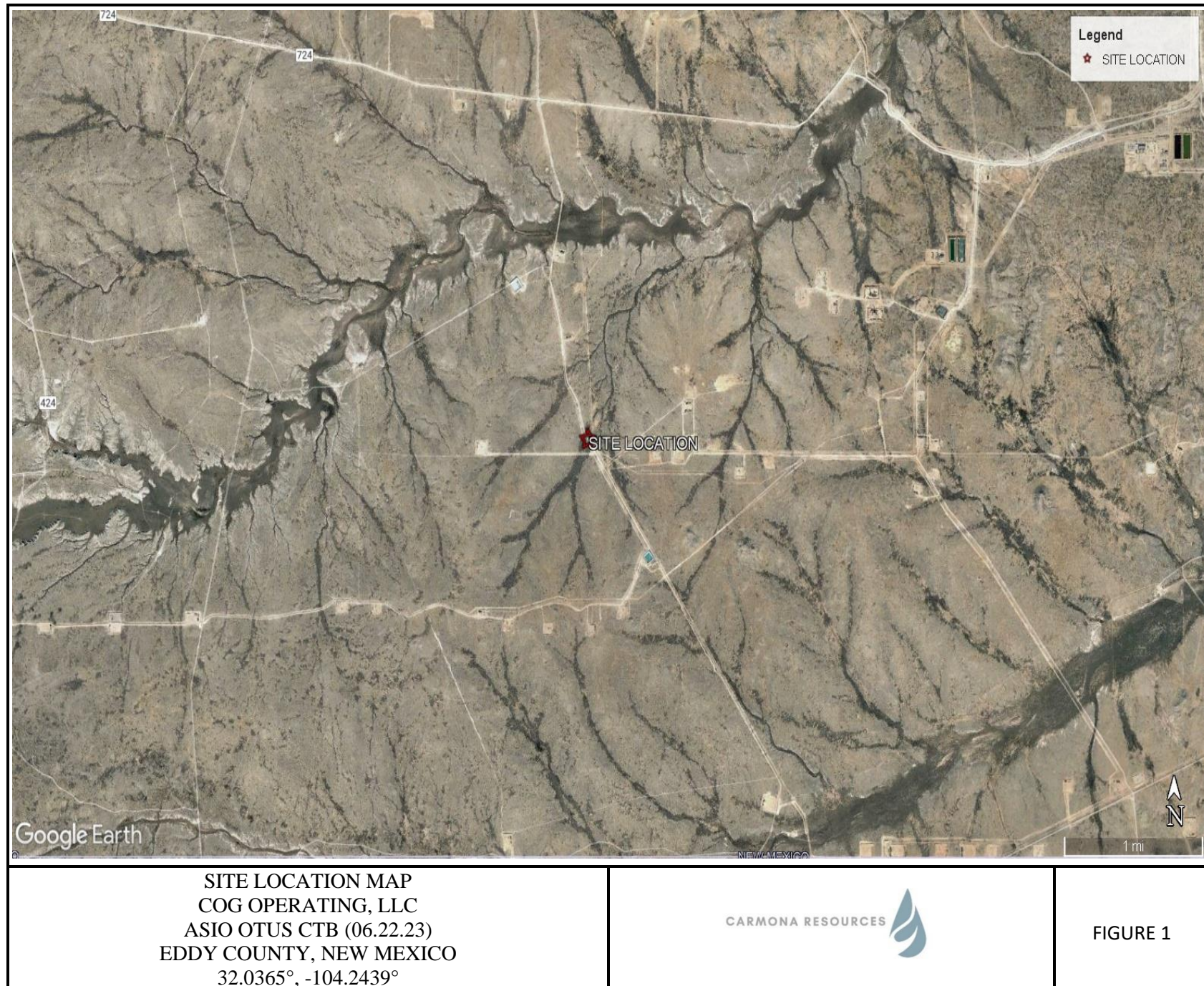
Conner Moehring
Sr. Project Manager

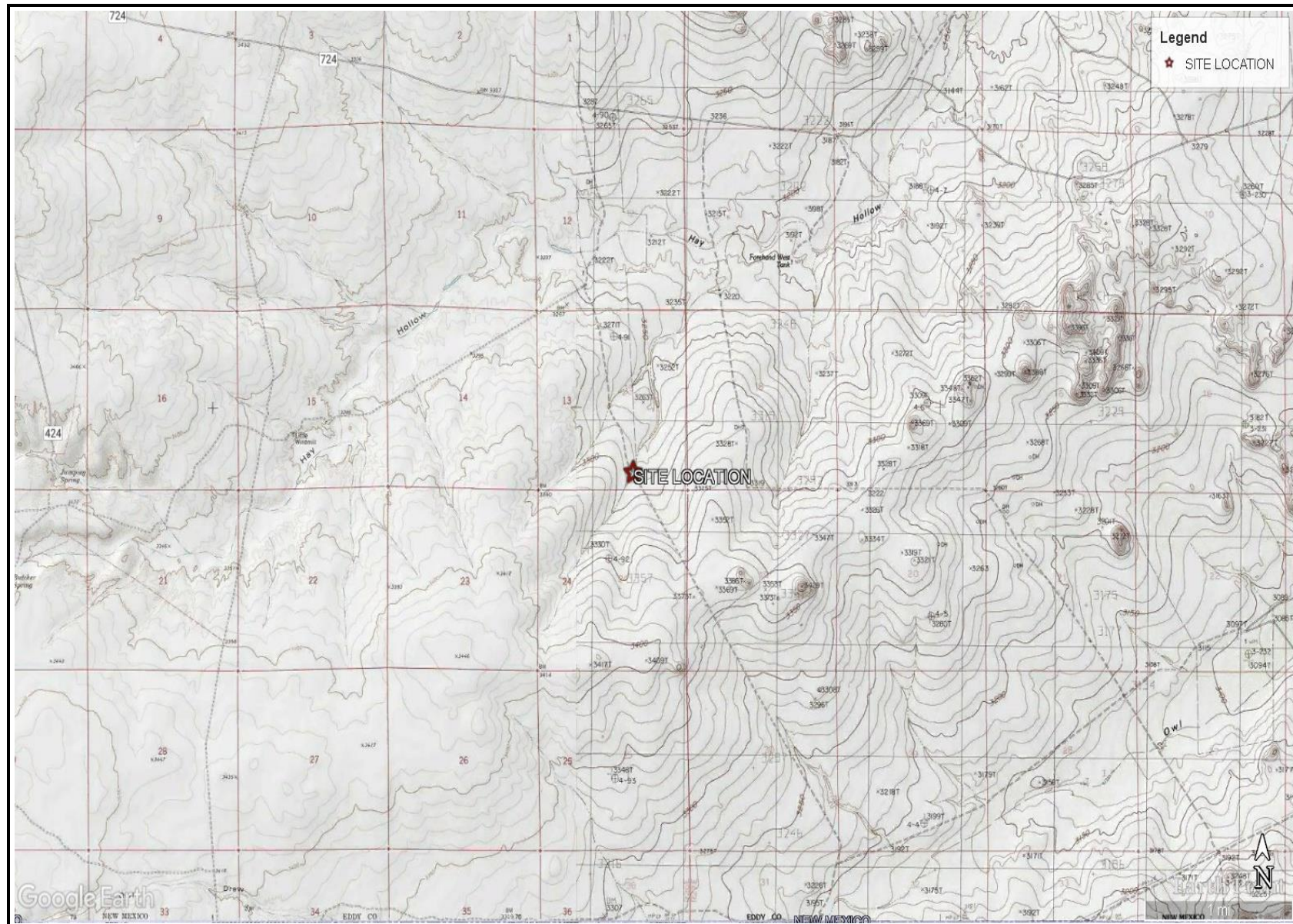
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FIGURES

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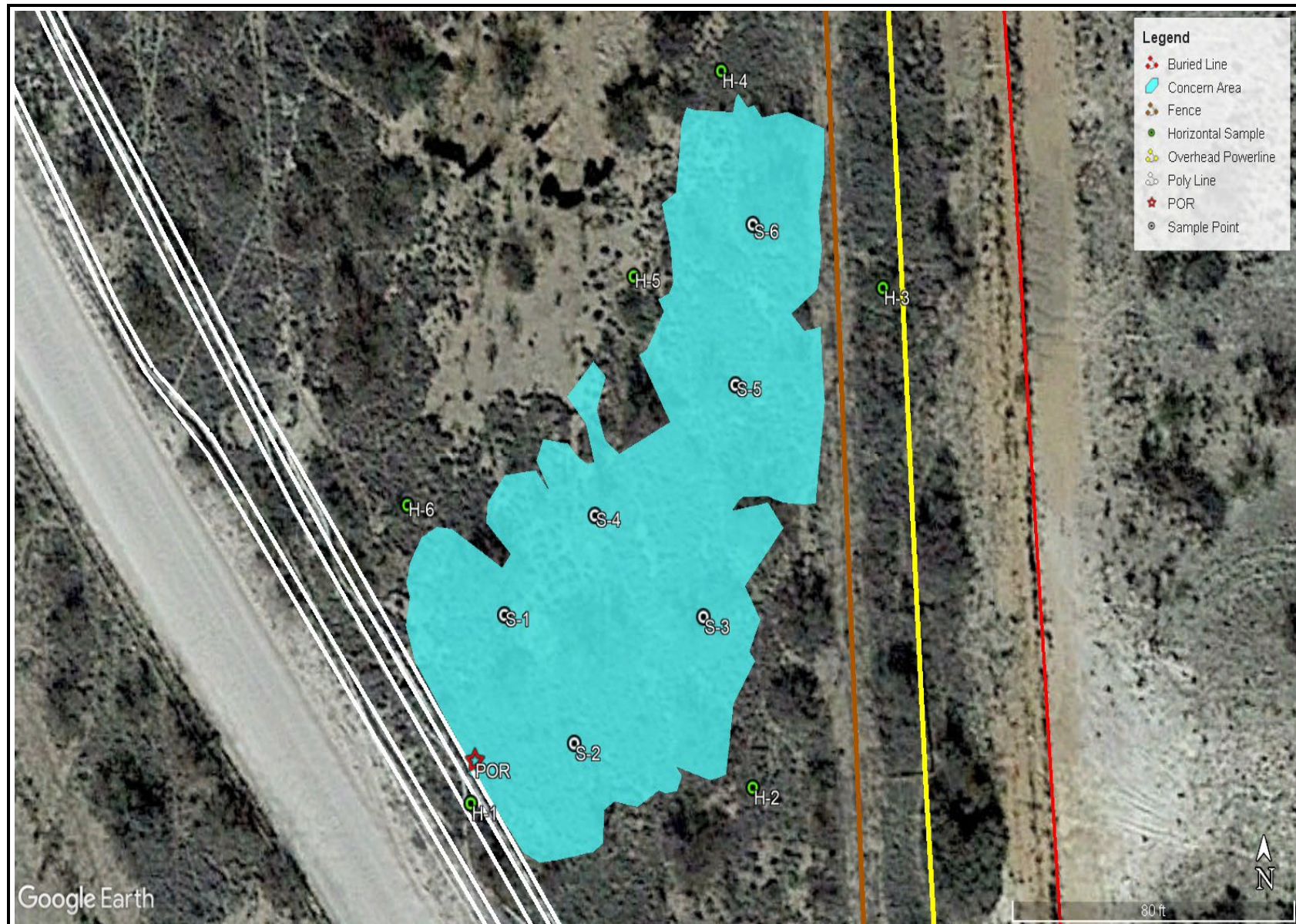




TOPOGRAPHIC MAP
 COG OPERATING, LLC
 ASIO OTUS CTB (06.22.23)
 EDDY COUNTY, NEW MEXICO
 32.0365°, -104.2439°



FIGURE 2



SAMPLE LOCATION MAP
COG OPERATING, LLC
ASIO OTUS CTB (06.22.23)
EDDY COUNTY, NEW MEXICO
32.0365°, -104.2439°



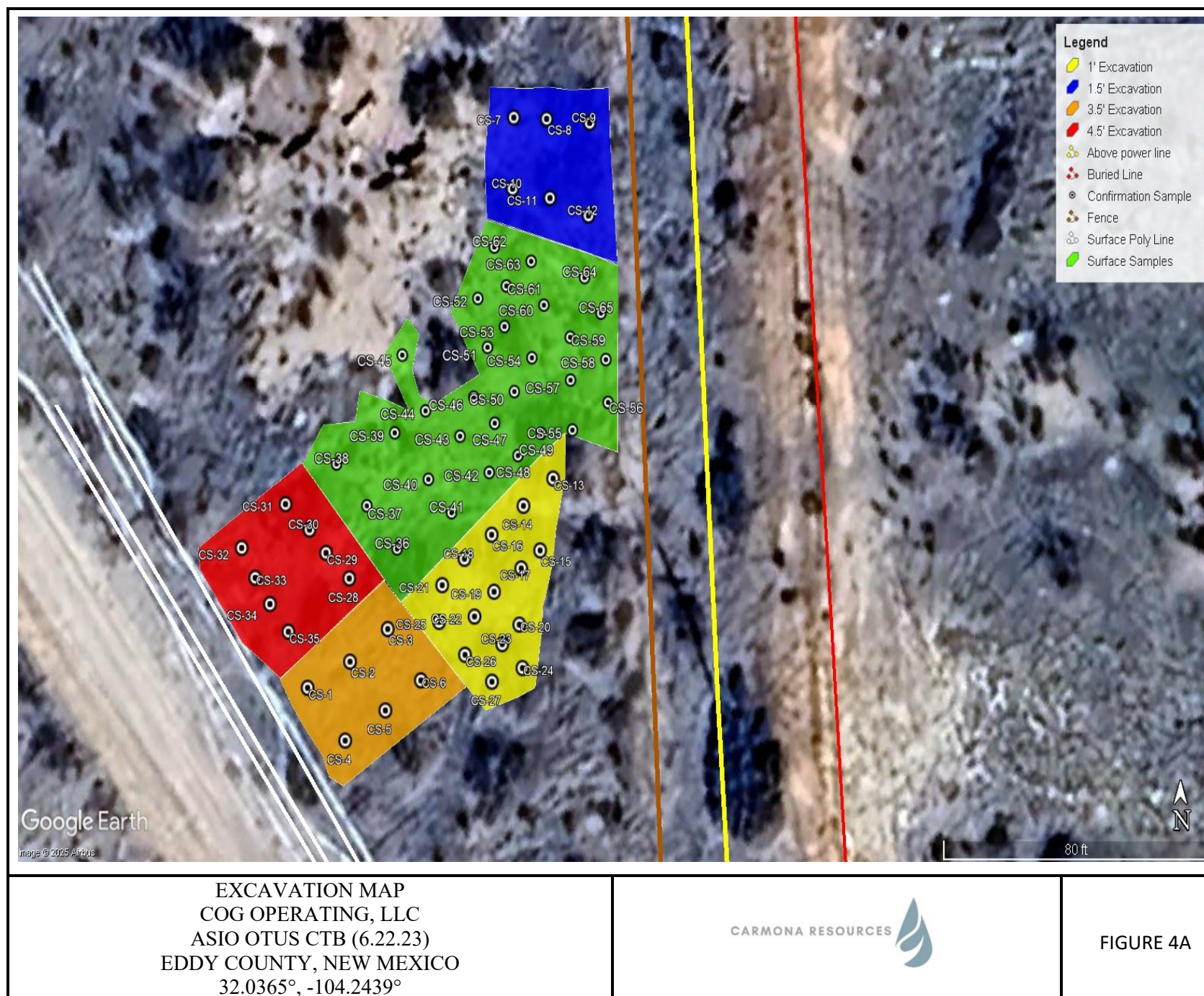
FIGURE 3

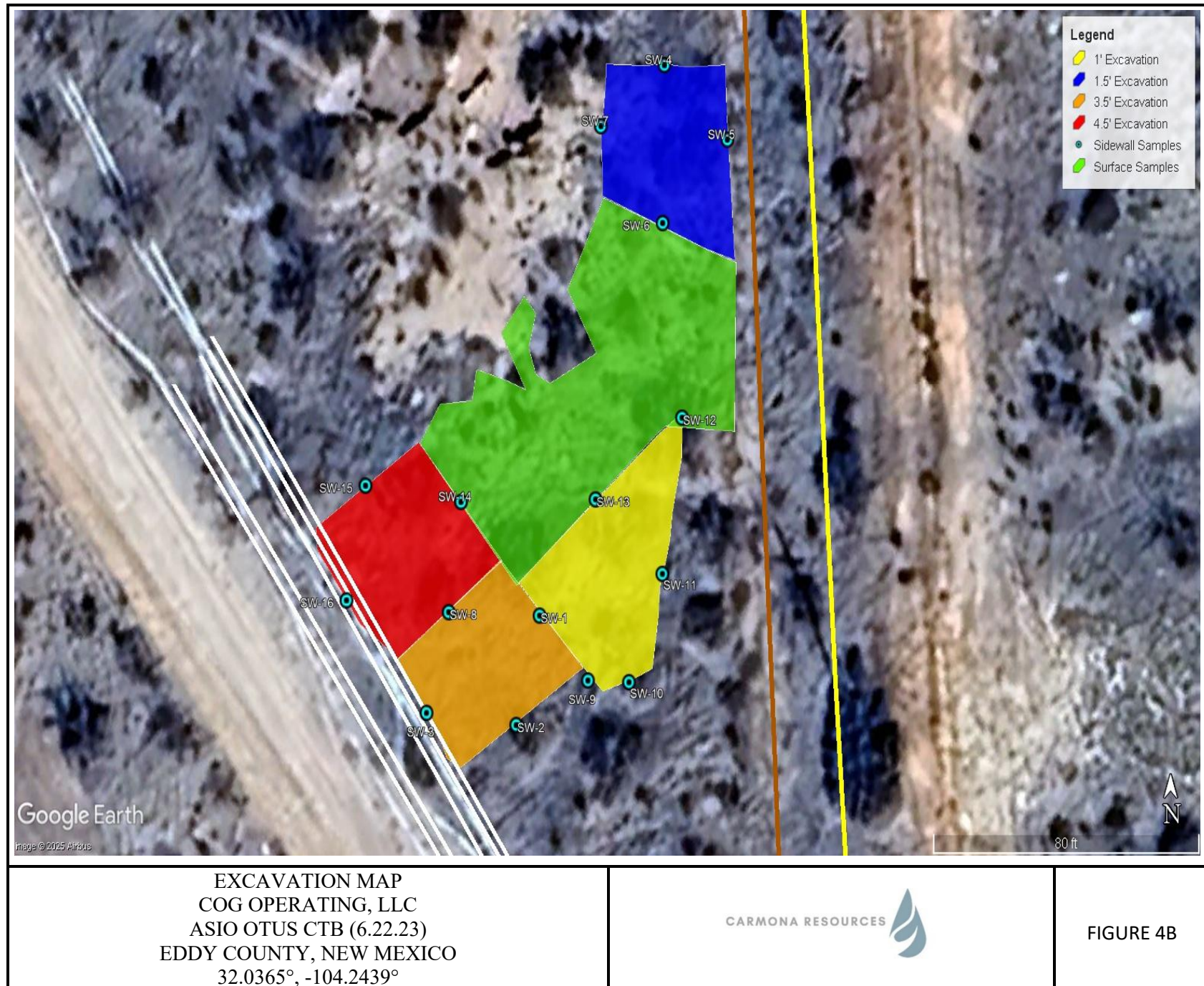


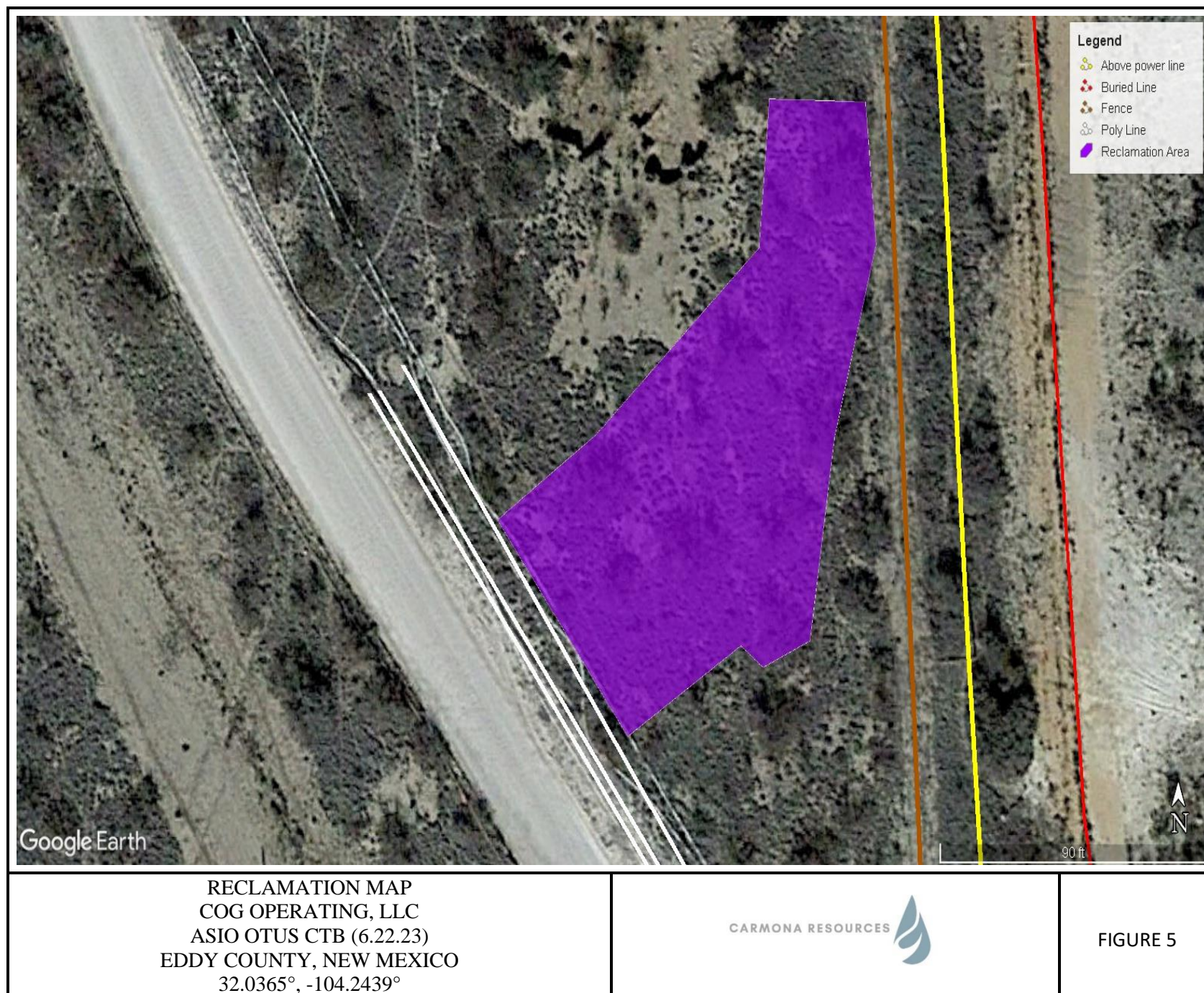
EXCAVATION MAP
 COG OPERATING, LLC
 ASIO OTUS CTB (6.22.23)
 EDDY COUNTY, NEW MEXICO
 32.0365°, -104.2439°



FIGURE 4







APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating
Asio Otus CTB (06.22.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	7/31/2023	0-0.5	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	14,900
	'	1.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11,700
	'	1.5	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	6,620
	'	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	6,570
	'	3.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,670
	'	4.0	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	3,630
S-2	7/31/2023	0-0.5	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	20,700
	'	1.0	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	19,100
	'	1.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	19,400
	'	2.0	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	18,100
	'	3.0	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	19,900
S-3	7/31/2023	0-0.5	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	12,200
	'	1.0	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	88.4
S-4	7/31/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	33.3
	'	1.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	75.8
S-5	7/31/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	23.9
	'	1.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	76.8
	'	1.5	<49.5	<49.5	<49.5	<49.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	32.3
S-6	7/31/2023	0-0.5	<50.4	769	<50.4	769	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	23.7
	'	1.0	<50.2	1,300	<50.2	1,300	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	33.2
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

Removed

Table 1
COG Operating
Asio Otus CTB (06.22.23)
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	7/31/2023	0-0.5	<50.5	53.6	<50.5	53.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	127
H-2	7/31/2023	0-0.5	<50.0	50.0	<50.0	50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	63.5
H-3	7/31/2023	0-0.5	<50.4	59.1	<50.4	59.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	233
H-4	7/31/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	35.3
H-5	7/31/2023	0-0.5	<49.6	55.5	<49.6	55.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	26.8
H-6	7/31/2023	0-0.5	<49.9	50.7	<49.9	50.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	118
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

Table 2
COG Operating
Asio Otus CTB (06.22.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	10/11/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-2	10/11/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-3	10/11/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-4	10/11/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-5	10/11/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-6	10/11/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-7	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-8	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-9	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-10	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-11	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-12	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-13	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-14	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-15	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-16	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

Table 2
COG Operating
Asio Otus CTB (06.22.23)
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-17	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-18	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-19	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-20	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-21	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-22	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-23	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-24	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-25	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-26	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-27	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-28	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-29	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-30	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-31	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-32	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-33	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-34	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-35	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

Table 2
COG Operating
Asio Otus CTB (06.22.23)
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-36	12/12/2024	Surface	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	418
CS-37	12/12/2024	Surface	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	387
CS-38	12/12/2024	Surface	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	71.7
CS-39	12/12/2024	Surface	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	64.9
CS-40	12/12/2024	Surface	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	94.2
CS-41	12/12/2024	Surface	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	123
CS-42	12/12/2024	Surface	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	369
CS-43	12/12/2024	Surface	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	369
CS-44	12/12/2024	Surface	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	331
CS-45	12/12/2024	Surface	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	293
CS-46	12/12/2024	Surface	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	257
CS-47	12/12/2024	Surface	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	397
CS-48	12/12/2024	Surface	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	158
CS-49	12/12/2024	Surface	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	101
CS-50	12/12/2024	Surface	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	101
CS-51	12/12/2024	Surface	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	465
CS-52	12/12/2024	Surface	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	241
CS-53	12/12/2024	Surface	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	155
CS-54	12/12/2024	Surface	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	140
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
Asio Otus CTB (06.22.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-55	12/12/2024	Surface	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	197
CS-56	12/12/2024	Surface	<49.7	56.9	<49.7	56.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	364
CS-57	12/12/2024	Surface	<49.8	81.3	<49.8	81.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	365
CS-58	12/12/2024	Surface	<49.8	89.4	<49.8	89.4	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	530
CS-59	12/12/2024	Surface	<49.8	54.0	<49.8	54.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	152
CS-60	12/12/2024	Surface	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	146
CS-61	12/12/2024	Surface	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	150
CS-62	12/12/2024	Surface	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	192
CS-63	12/12/2024	Surface	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	150
CS-64	12/12/2024	Surface	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	201
CS-65	12/12/2024	Surface	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	157
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
Asio Otus CTB (06.22.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
SW-1	10/11/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-2	10/11/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	10/11/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-5	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-6	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	10/11/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-8	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-9	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-10	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-11	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-12	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-13	10/11/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-14	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-15	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-16	10/12/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Backfill Material	5/22/2024	-	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00198	<0.00396	208
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: Asio Otus CTB (06.22.23)

County: Eddy County, New Mexico

Description:

View Northwest, area of sample points CS-1 through CS-6.



Photograph No. 2

Facility: Asio Otus CTB (06.22.23)

County: Eddy County, New Mexico

Description:

View North, area of sample points CS-7 through CS-12.



Photograph No. 3

Facility: Asio Otus CTB (06.22.23)

County: Eddy County, New Mexico

Description:

View Southwest, area of sample points CS-13 through CS-27



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Asio Otus CTB (06.22.23)

County: Eddy County, New Mexico

Description:

View North, area of sample points CS-28 through CS-35.



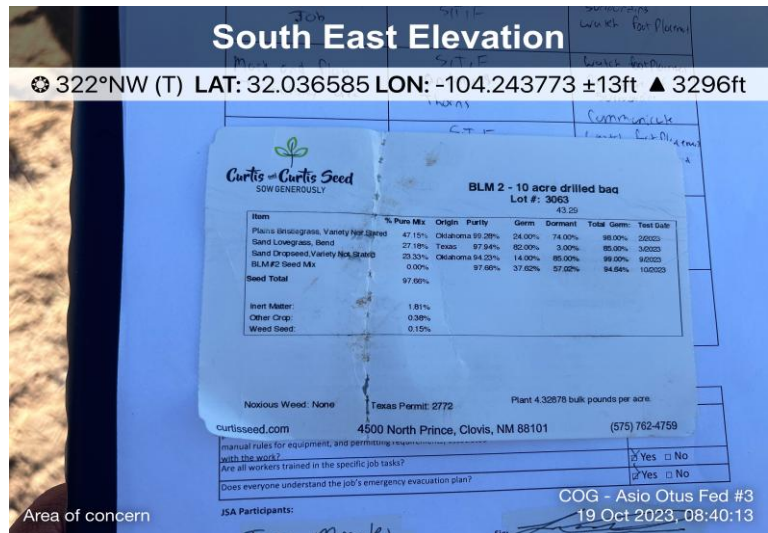
Photograph No. 5

Facility: Asio Otus CTB (06.22.23)

County: Eddy County, New Mexico

Description:

Seed Mixture Tag.



Photograph No. 6

Facility: Asio Otus CTB (06.22.23)

County: Eddy County, New Mexico

Description:

View West, hand broadcasting of seed mixture.



PHOTOGRAPHIC LOG
Concho Operating, LLC

Photograph No. 7

Facility: Asio Otus CTB (06.22.23)

County: Eddy County, New Mexico

Description:
View Northeast, area of Confirmation Samples (36 - 65).



APPENDIX C

CARMONA RESOURCES



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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name _____	Title: _____
Signature: <u>Battani Espinoza</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>7/10/2023</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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

L48 Spill Volume Estimate Form

Received by OCD: 6/10/2025 10:29:19 AM	Name & Number:	Asio Otis	Page 33 of 289
	Asset Area:	pasture	
	Release Discovery Date & Time:	6/22/2023	
	Release Type:	Produced Water	
	Provide any known details about the event:	Flex Line rupture on line going to SWD	

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	87.0	201.0	1.00	11.30%	259.391	29.311			
Rectangle B	148.0	69.0	0.25	11.30%	37.870	4.279			
Rectangle C	0.0	0.0	0.00	11.30%	0.000	0.000			
Rectangle D					0.000	0.000			
Rectangle E					0.000	0.000			
Rectangle F					0.000	0.000			
Rectangle G					0.000	0.000			
Rectangle H					0.000	0.000			
Rectangle I					0.000	0.000			
Released to Imaging: 7/21/2025 11:07:53 AM					0.000	0.000			

Total Volume Release:

33.590

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 237898

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 237898
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/10/2023

From: Wells, Shelly, EMNRD
Sent: Tuesday, October 10, 2023 9:25 AM
To: Conner Moehring; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc: Mike Carmona; Devin Dominguez; Clint Merritt; Jacqui.Harris@conocophillips.com; Esparza, Brittany
Subject: RE: [EXTERNAL] COG - Asio Otis Fed #3 (06.22.23) - Sampling Notification

Hi Conner,

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

Thank you,

Shelly

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

From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Friday, October 6, 2023 5:05 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>; Clint Merritt <MerrittC@carmonaresources.com>; Jacqui.Harris@conocophillips.com; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: [EXTERNAL] COG - Asio Otis Fed #3 (06.22.23) - Sampling Notification

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

Good Afternoon,

This email is a notification for confirmation sampling for the COG – Asio Otis Fed #3 (06.22.23). Sampling is scheduled to begin on Wednesday, October 11th, around 10:30 a.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples.

COG Operating – Asio Otis Fed #3 (06.22.23)
Sec 13 T26S R27E Unit O
32.036620, -104.243892

Eddy County, New Mexico

Please call if you have any questions.

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

CARMONA RESOURCES



Conner Moehring

From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Wednesday, November 20, 2024 9:34 AM
To: Mike Carmona; Conner Moehring
Subject: FW: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Update...

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Wednesday, November 20, 2024 8:03 AM
To: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Jacqui,

I think we have went over this in previous emails. If you have a site map with delineation sample points, that's fine and it can be included in the Closure Report. The final site map that includes your final confirmation closure samples needs to include all 200 ft² sample locations on that particular map. It shouldn't be a hybrid map with delineation samples points in some areas and confirmation sample points in others. The entire area within the release area needs to include final confirmation sample locations every 200 ft².

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Tuesday, November 19, 2024 2:17 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Hi Robert,

I hope this message finds you well. I wanted to follow up on the email I sent on Nov.8, 2024 regarding clarification on your suggestions for future closures . I understand you might be busy, but I would appreciate it if you could take a moment to review it and get back to me at your earliest convenience.

Jacqui Harris |Sr. Environmental Engineer | ConocoPhillips
| C: 575-496-0780 | 1401 Commerce Drive, Carlsbad, New Mexico

From: Harris, Jacqui
Sent: Friday, November 8, 2024 12:08 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Robert,
Thank you for your response. I was referring to the same rules when I mentioned that all closure requirements under 19.15.29.12 NMAC have been met. It seems there might be a misunderstanding between initial samples (taken to assess the area) and closure samples (taken to verify that contaminants have been removed). The areas you are requesting additional sampling on are part of the initial assessment. They were not portrayed as, nor intended to be closure samples. They were included in the map and tables to provide a complete data set and justify the remediation locations.

I have a couple of questions for clarification:

1. Am I correct in understanding that the NMOCD does not require a complete data set (including initial samples) in the closure report documents?
2. If initial samples are included in the closure documents (even if they are contaminant-free), does the NMOCD require additional samples to be collected every 200 sq ft of contaminant-free soil?

Thank you for your assistance.

Jacqui Harris |Sr. Environmental Engineer | ConocoPhillips
| C: 575-496-0780 | 1401 Commerce Drive, Carlsbad, New Mexico

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, November 8, 2024 11:13 AM
To: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Jacqui,

The OCD Spill Rule discusses it in **19.15.29.12D(1)(c) REMEDIATION AND CLOSURE:**

(c) Alternately, without division approval, the responsible party may elect to perform a composite and grab sample plan of the remediated area where each composite sample is not representative of more than 200 square feet.

Also, it is discussed in the "Clarification Document" that was placed on the OCD website:

VII. CLOSURE SAMPLING PLANS:

If a responsible party wishes to remediate a spill within 90 days of its discovery without submitting a remediation plan, the closure samples must reflect the gathering of composites representative of no more than 200 square feet per composite sample per 19.15.29.12(D)(1)(c) NMAC. Alternative sampling plans will only be allowed with written permission from the OCD. In accordance with 19.15.29.12(D)(1)(b) NMAC, there are no listed standards as to what a responsible party can base an alternative sampling plan upon. Therefore, the OCD may request justifications or methods used in constructing the plan such that an appropriate decision can be made. OCD staff can provide verbal approval, but it must be followed up in writing such as an email.

If an operator/environmental consultant outlines an "Area of Concern" on their site map, that area needs to be thoroughly vetted and confirmation closure samples need to be gathered in that "Area of Concern."

Please let me know if you have any further questions.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Thursday, November 7, 2024 4:30 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Robert,
I hope this message finds you well.

Concerning "area of concern" this is a way to label the release area and any potentially impacted area. If data is collected in the field or it's evaluated, we believe it needs to be on the report to ensure transparency and thoroughness. While I understand that you may have a different perspective on the labeling of the "area of concern," it is important to note that all closure requirements have been satisfied according to the written rule. Our data and samples substantiate this compliance.

I am writing to confirm that all closure requirements under 19.15.29.12 NMAC have been met. The areas you are requesting additional samples from (S-4 & S-5) have been thoroughly assessed and delineated, and the analytical results indicate no impact. These areas were included in the assessment to ensure a comprehensive evaluation.

The remediated area has been confirmed with samples, including sidewalls of the areas bordering areas S-4 and S-5, all of which meet the NMOCD closure criteria.

Could you please advise where in the rule it specifies the need for additional sampling of an area that has already been demonstrated to be contaminant-free?

Thank you for your attention to this matter.

Best regards,

Jacqui Harris | Sr. Environmental Engineer | **ConocoPhillips**
| C: 575-496-0780 | 1401 Commerce Drive, Carlsbad, New Mexico

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, October 29, 2024 2:40 PM
To: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Jacqui,

We won't be able to approve this incident until 5-point confirmation samples are conducted in the delineation sample areas of S-4 and S-5. These samples must be no larger than 200 ft² and must meet closure criteria standards. The sample locations must be included on your final confirmation sampling site map for verification. In the future, if you have no reason to believe that the release entered a certain area, leave these areas out of the "Concern Area" and off of your site map. Otherwise, you will need to do 200 ft² confirmation samples within that entire boundary of the "Concern Area." Validation sample points outside of the "Area of Concern" would probably be your best approach if you are fairly certain the release didn't enter that area, but you still want to validate that. That way you're not locked into doing 200 ft² confirmation samples in that particular area.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Tuesday, October 29, 2024 1:30 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>
Subject: RE: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Robert,

Just following up on this. Should we resubmit this one?

Jacqui Harris | Sr. Environmental Engineer | **ConocoPhillips**
| C: 575-496-0780 | 1401 Commerce Drive, Carlsbad, New Mexico

From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Tuesday, October 22, 2024 2:07 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

There does appear to be a discrepancy between the remediated area map and the sample map. If we correct the map and resubmit will that suffice? The analytical data shows no impact and the excavation is guided by field screening and supported by confirmation samples all shown in the report.

Jacqui

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From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, October 22, 2024 1:56:54 PM
To: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Jacqui,

The entire release area on the site map defined as "Release Area," "Area of Concern," or "Concern Area" needs to be fully investigated. 5-point confirmation samples need to be collected every 200 ft² throughout the entire release area and not just at delineation sample point locations that show contaminants over closure criteria standards.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Tuesday, October 22, 2024 1:27 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] RE: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

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Robert,

I need some assistance in understanding the below denial for Incident ID# napp2319138455. You referred to sample areas S-4 and S-5. These were initial sample areas that both came back below reclamation standards. These areas weren't remediated (and didn't need to be per the spill rule) and therefore confirmation samples were not collected in that area. I have attached the closure report for your reference if needed. Please advise on how we need to proceed with this.

Jacqui Harris |Sr. Environmental Engineer | ConocoPhillips
| C: 575-496-0780 | 1401 Commerce Drive, Carlsbad, New Mexico

From: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Sent: Monday, October 21, 2024 10:08 AM
To: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Subject: NMOCD DENIAL - Asio Otus CTB (6/22/2023)

Jacqui, please see below for the Denial.

Thank you,

Brittany N. Esparza

Brittany N. Esparza | Environmental Technician, Permian | ConocoPhillips
O: 432-221-0398 | C: 432-349-1911 | 1CC-331 Midland, Texas

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, October 18, 2024 3:23 PM
To: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 385100

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Brittany Esparza for COG OPERATING LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2319138455, for the following reasons:

- **The Remediation Closure Report is Denied. The Remediation Closure Report includes an inadequate number of floor samples in the delineation sample areas of S-4 and S-5. Please collect confirmation samples, representing no more than 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule.**

The rejected C-141 can be found in the OCD Online: Permitting – Action Status, under the Application ID: 385100.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Robert Hamlet

575-748-1283

Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

APPENDIX D

CARMONA RESOURCES



Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 1.15 Miles
- 1.70 Miles
- 1.79 Miles
- Asio Otus Federal 003H (06.22.2023)
- NMSEO Water Well
- USGS Water Well

12.60' - Drilled 2018

35.92' - Drilled 1998

31' - Drilled 1980

Asio Otus Federal 003H (06.22.2023)

High Karst

COG Operating

Legend

- Asio Otus Federal 003H (06.22.2023)
- High

Asio Otus Federal 003H (06.22.2023)



4000 ft



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 04269 POD1	CUB	ED		4	2	3	18	26S	27E	572620	3545176	1303	105		
C 02438	CUB	ED		4	2	3	12	26S	26E	571015	3546705*	1996	30		
C 02218	CUB	ED		4	1	4	07	26S	27E	573039	3546725*	2577	35		
C 01887	C	ED		4	4	2	15	26S	26E	568614	3545497*	2876	53	31	22
C 02439	CUB	ED		2	4	2	15	26S	26E	568614	3545697*	2935	30		

Average Depth to Water: **31 feet**

Minimum Depth: **31 feet**

Maximum Depth: **31 feet**

Record Count: 5

UTM NAD83 Radius Search (in meters):

Easting (X): 571390

Northing (Y): 3544744

Radius: 4000

*UTM location was derived from PLSS - see Help

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


6/29/23 10:38 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

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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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320320104145101

Minimum number of levels = 1

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

USGS 320320104145101 26S.26E.12.34120

Eddy County, New Mexico

Latitude 32°03'09.7", Longitude 104°14'56.7" NAD83

Land-surface elevation 3,230.90 feet above NGVD29

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 measur
1978-01-25		D	62610		3217.55	NGVD29	1		Z	
1978-01-25		D	62611		3219.22	NAVD88	1		Z	
1978-01-25		D	72019	13.35			1		Z	
1992-11-18		D	62610		3218.87	NGVD29	1		S	
1992-11-18		D	62611		3220.54	NAVD88	1		S	
1992-11-18		D	72019	12.03			1		S	
1998-01-13		D	62610		3215.24	NGVD29	1		S	
1998-01-13		D	62611		3216.91	NAVD88	1		S	
1998-01-13		D	72019	15.66			1		S	
2003-01-28		D	62610		3214.44	NGVD29	1		S	USGS
2003-01-28		D	62611		3216.11	NAVD88	1		S	USGS
2003-01-28		D	72019	16.46			1		S	USGS
2013-01-09 22:10 UTC		m	62610		3213.80	NGVD29	1		S	USGS
2013-01-09 22:10 UTC		m	62611		3215.47	NAVD88	1		S	USGS
2013-01-09 22:10 UTC		m	72019	17.10			1		S	USGS

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	
2018-02-15 22:14 UTC	m		62610	3218.30	NGVD29	1	S	USGS
2018-02-15 22:14 UTC	m		62611	3219.97	NAVD88	1	S	USGS
2018-02-15 22:14 UTC	m		72019	12.60		1	S	USGS

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
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=320320104145101&agency_cd=USGS&format=html)



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Agency code = usgs
site_no list =

- 320244104161501

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

USGS 320244104161501 26S.26E.15.24444

Eddy County, New Mexico
Latitude 32°02'44", Longitude 104°16'15" NAD27
Land-surface elevation 3,280 feet above NAVD88
The depth of the well is 53 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
1983-08-24			D 62610		3246.37	NGVD29	1		Z	
1983-08-24			D 62611		3248.04	NAVD88	1		Z	
1983-08-24			D 72019	31.96			1		Z	
1987-10-08			D 62610		3248.64	NGVD29	1		Z	
1987-10-08			D 62611		3250.31	NAVD88	1		Z	
1987-10-08			D 72019	29.69			1		Z	
1992-11-18			D 62610		3246.72	NGVD29	1		S	
1992-11-18			D 62611		3248.39	NAVD88	1		S	
1992-11-18			D 72019	31.61			1		S	
1998-01-08			D 62610		3242.41	NGVD29	1		S	
1998-01-08			D 62611		3244.08	NAVD88	1		S	
1998-01-08			D 72019	35.92			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
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>




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Page Last Modified: 2023-06-29 12:41:15 EDT
0.28 0.24 nadww01



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	01887	4	4	2	15	26S	26E	568614	3545497*				
x													
Driller License:		817		Driller Company:			WEST, BILLY GEORGE						
Driller Name:		GEORGE WEST											
Drill Start Date:		03/26/1980		Drill Finish Date:			04/27/1980		Plug Date:				
Log File Date:		05/09/1980		PCW Rev Date:			Source:					Shallow	
Pump Type:		Pipe Discharge Size:			Estimated Yield:					12 GPM			
Casing Size:		6.00		Depth Well:			53 feet		Depth Water:		31 feet		
x													
Water Bearing Stratifications:				Top	Bottom	Description							
				42	45	Sandstone/Gravel/Conglomerate							
x													
Casing Perforations:				Top	Bottom								
				40	53								

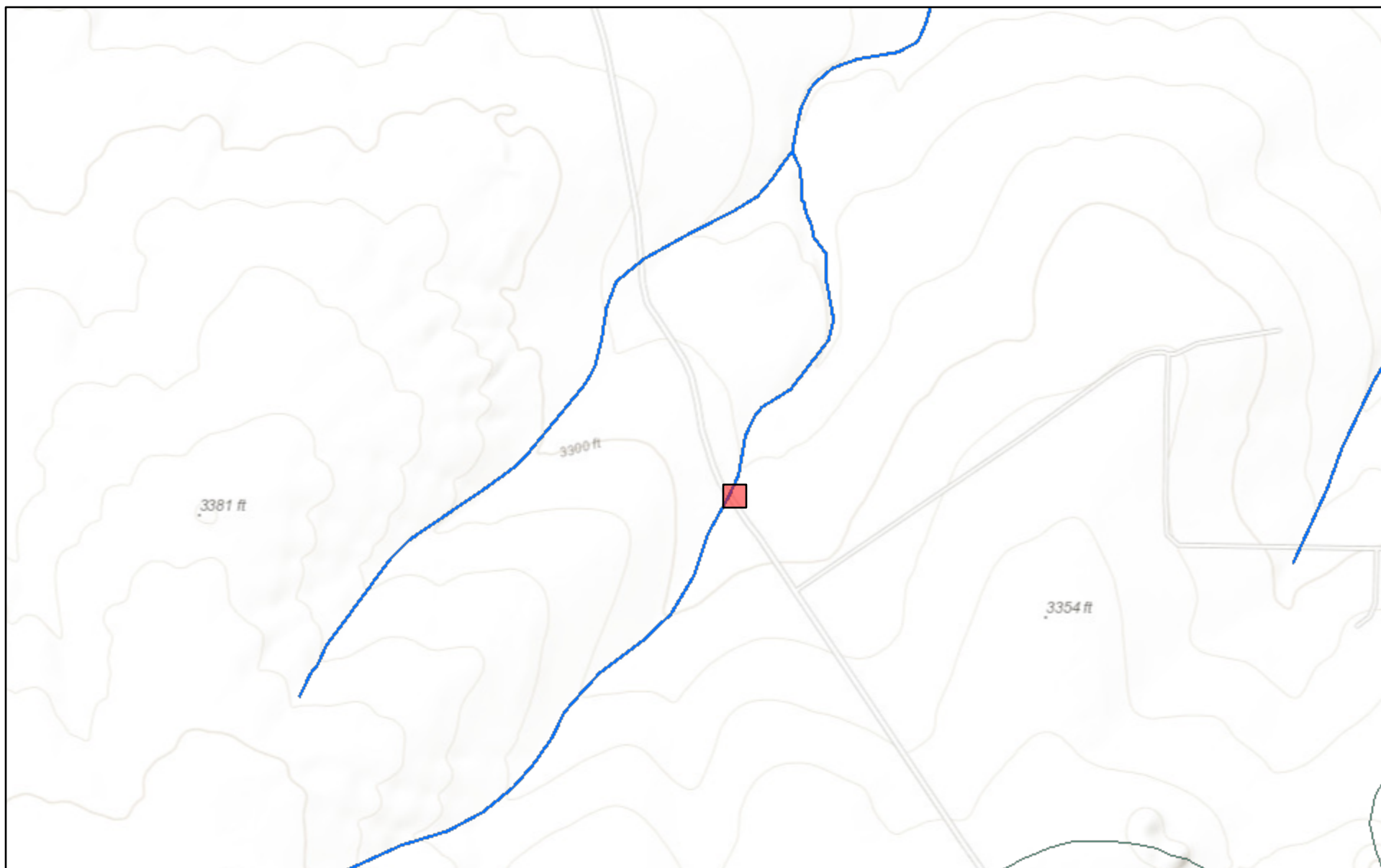
*UTM location was derived from PLSS - see Help

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

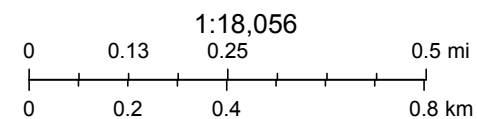
6/29/23 10:38 AM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



June 29, 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: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 8/8/2023 11:33:30 AM

JOB DESCRIPTION

Asio Otis Fed #3 (6.22.23)
SDG NUMBER Eddy County, New Mexico

JOB NUMBER

880-31669-1

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
8/8/2023 11:33:30 AM

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

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Laboratory Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Job ID: 880-31669-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-31669-1

Receipt

The samples were received on 8/3/2023 4:09 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 -1.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.5') (880-31669-1), S-1 (1.0') (880-31669-2), S-1 (1.5') (880-31669-3), S-1 (2.0') (880-31669-4), S-1 (3.0') (880-31669-5), S-1 (4.0') (880-31669-6), S-2 (0-0.5') (880-31669-7), S-2 (1.0') (880-31669-8), S-2 (1.5') (880-31669-9), S-2 (2.0') (880-31669-10), S-2 (3.0') (880-31669-11), S-3 (0-0.5') (880-31669-12), S-3 (1.0') (880-31669-13), S-4 (0-0.5') (880-31669-14), S-4 (1.0') (880-31669-15), S-5 (0-0.5') (880-31669-16), S-5 (1.0') (880-31669-17), S-5 (1.5') (880-31669-18), S-6 (0-0.5') (880-31669-19) and S-6 (1.0') (880-31669-20).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59295 recovered above the upper control limit for m-Xylene & p-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 880-59295/2).

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-59352 and analytical batch 880-59295 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-59355 and analytical batch 880-59413 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-0.5') (880-31669-1), S-1 (1.0') (880-31669-2), S-1 (1.5') (880-31669-3), S-1 (2.0') (880-31669-4), S-1 (3.0') (880-31669-5), S-1 (4.0') (880-31669-6), S-2 (0-0.5') (880-31669-7), S-2 (1.0') (880-31669-8), S-2 (1.5') (880-31669-9), S-2 (2.0') (880-31669-10), S-2 (3.0') (880-31669-11), S-3 (0-0.5') (880-31669-12), S-3 (1.0') (880-31669-13), S-4 (0-0.5') (880-31669-14), S-4 (1.0') (880-31669-15), S-5 (0-0.5') (880-31669-16), S-5 (1.0') (880-31669-17), S-5 (1.5') (880-31669-18), S-6 (0-0.5') (880-31669-19), S-6 (1.0') (880-31669-20), (CCV 880-59413/31), (CCV 880-59413/47), (CCV 880-59413/58), (LCS 880-59355/2-A), (LCSD 880-59355/3-A), (880-31669-A-1-F MS) and (880-31669-A-1-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59355 and analytical batch 880-59413 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-59303 and 880-59303 and analytical batch 880-59358 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: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31669-1

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 02:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 02:32	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		08/04/23 14:47	08/05/23 02:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/04/23 14:47	08/05/23 02:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 02:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/04/23 14:47	08/05/23 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	08/04/23 14:47	08/05/23 02:32	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/04/23 14:47	08/05/23 02:32	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			08/07/23 17:07	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			08/08/23 12:09	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		08/04/23 15:46	08/07/23 20:25	1
Diesel Range Organics (Over C10-C28)	<50.2	U F1	50.2		mg/Kg		08/04/23 15:46	08/07/23 20:25	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/04/23 15:46	08/07/23 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	185	S1+	70 - 130	08/04/23 15:46	08/07/23 20:25	1
o-Terphenyl	176	S1+	70 - 130	08/04/23 15:46	08/07/23 20:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14900		101		mg/Kg			08/05/23 04:39	20

Client Sample ID: S-1 (1.0')

Lab Sample ID: 880-31669-2

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 02:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 02:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 02:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 02:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 02:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/04/23 14:47	08/05/23 02:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/04/23 14:47	08/05/23 02:53	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.0')

Lab Sample ID: 880-31669-2

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/07/23 21:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/04/23 15:46	08/07/23 21:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/04/23 15:46	08/07/23 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	181	S1+	70 - 130				08/04/23 15:46	08/07/23 21:34	1
o-Terphenyl	171	S1+	70 - 130				08/04/23 15:46	08/07/23 21:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11700		100		mg/Kg			08/05/23 04:44	20

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-31669-3

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 03:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 03:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 03:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/04/23 14:47	08/05/23 03:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 03:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/04/23 14:47	08/05/23 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				08/04/23 14:47	08/05/23 03:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/04/23 14:47	08/05/23 03:13	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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/07/23 21:56	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/04/23 15:46	08/07/23 21:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-31669-3

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 15:46	08/07/23 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	185	S1+	70 - 130				08/04/23 15:46	08/07/23 21:56	1
o-Terphenyl	174	S1+	70 - 130				08/04/23 15:46	08/07/23 21:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6620	F1	50.5		mg/Kg			08/05/23 04:49	10

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-31669-4

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 03:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 03:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 03:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/04/23 14:47	08/05/23 03:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 03:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/04/23 14:47	08/05/23 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				08/04/23 14:47	08/05/23 03:34	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/04/23 14:47	08/05/23 03:34	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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/07/23 22:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/04/23 15:46	08/07/23 22:18	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/04/23 15:46	08/07/23 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	180	S1+	70 - 130				08/04/23 15:46	08/07/23 22:18	1
o-Terphenyl	171	S1+	70 - 130				08/04/23 15:46	08/07/23 22:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6570		50.4		mg/Kg			08/05/23 05:04	10

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-31669-5

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 03:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 03:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 03:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 14:47	08/05/23 03:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 03:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 14:47	08/05/23 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/04/23 14:47	08/05/23 03:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/04/23 14:47	08/05/23 03:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/07/23 22:39	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/04/23 15:46	08/07/23 22:39	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 15:46	08/07/23 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	204	S1+	70 - 130	08/04/23 15:46	08/07/23 22:39	1
o-Terphenyl	194	S1+	70 - 130	08/04/23 15:46	08/07/23 22:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2670		25.0		mg/Kg			08/05/23 05:09	5

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-31669-6

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 04:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 04:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 04:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/04/23 14:47	08/05/23 04:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 04:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/04/23 14:47	08/05/23 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/04/23 14:47	08/05/23 04:14	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/04/23 14:47	08/05/23 04:14	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-31669-6

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			08/07/23 17:07	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			08/08/23 12:09	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		08/04/23 15:46	08/07/23 23:01	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/04/23 15:46	08/07/23 23:01	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/04/23 15:46	08/07/23 23:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	180	S1+	70 - 130				08/04/23 15:46	08/07/23 23:01	1
o-Terphenyl	170	S1+	70 - 130				08/04/23 15:46	08/07/23 23:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3630		25.0		mg/Kg			08/05/23 05:24	5

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

Lab Sample ID: 880-31669-7

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 04:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 04:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 04:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 04:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 04:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/04/23 14:47	08/05/23 04:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/04/23 14:47	08/05/23 04:35	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			08/07/23 17:07	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			08/08/23 12:09	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		08/04/23 15:46	08/07/23 23:23	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/04/23 15:46	08/07/23 23:23	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31669-7

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 15:46	08/07/23 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				08/04/23 15:46	08/07/23 23:23	1
o-Terphenyl	145	S1+	70 - 130				08/04/23 15:46	08/07/23 23:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20700		101		mg/Kg			08/05/23 05:29	20

Client Sample ID: S-2 (1.0')

Lab Sample ID: 880-31669-8

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 04:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 04:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 04:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/04/23 14:47	08/05/23 04:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 04:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/04/23 14:47	08/05/23 04:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/04/23 14:47	08/05/23 04:55	1
1,4-Difluorobenzene (Surr)	112		70 - 130				08/04/23 14:47	08/05/23 04:55	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			08/07/23 17:07	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			08/08/23 12:09	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		08/04/23 15:46	08/07/23 23:45	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/04/23 15:46	08/07/23 23:45	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/04/23 15:46	08/07/23 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	187	S1+	70 - 130				08/04/23 15:46	08/07/23 23:45	1
o-Terphenyl	178	S1+	70 - 130				08/04/23 15:46	08/07/23 23:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19100		100		mg/Kg			08/05/23 05:34	20

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-31669-9

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 05:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 05:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 05:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/04/23 14:47	08/05/23 05:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 05:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/04/23 14:47	08/05/23 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/04/23 14:47	08/05/23 05:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/04/23 14:47	08/05/23 05:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/08/23 00:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/04/23 15:46	08/08/23 00:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/04/23 15:46	08/08/23 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	184	S1+	70 - 130	08/04/23 15:46	08/08/23 00:06	1
o-Terphenyl	173	S1+	70 - 130	08/04/23 15:46	08/08/23 00:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19400		99.0		mg/Kg			08/05/23 05:39	20

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-31669-10

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 05:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 05:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 05:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/04/23 14:47	08/05/23 05:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 05:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/04/23 14:47	08/05/23 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/04/23 14:47	08/05/23 05:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/04/23 14:47	08/05/23 05:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-31669-10

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/08/23 00:28	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/04/23 15:46	08/08/23 00:28	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 15:46	08/08/23 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	187	S1+	70 - 130				08/04/23 15:46	08/08/23 00:28	1
o-Terphenyl	177	S1+	70 - 130				08/04/23 15:46	08/08/23 00:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18100		99.2		mg/Kg			08/05/23 05:44	20

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-31669-11

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 07:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 07:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 07:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 14:47	08/05/23 07:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 07:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 14:47	08/05/23 07:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130				08/04/23 14:47	08/05/23 07:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/04/23 14:47	08/05/23 07:26	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			08/07/23 17:07	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			08/08/23 12:09	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		08/04/23 15:46	08/08/23 01:11	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/04/23 15:46	08/08/23 01:11	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-31669-11

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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)	<50.5	U	50.5		mg/Kg		08/04/23 15:46	08/08/23 01:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	182	S1+	70 - 130				08/04/23 15:46	08/08/23 01:11	1
o-Terphenyl	172	S1+	70 - 130				08/04/23 15:46	08/08/23 01:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19900		251		mg/Kg			08/05/23 05:49	50

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

Lab Sample ID: 880-31669-12

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 07:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 07:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 07:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/04/23 14:47	08/05/23 07:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 07:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/04/23 14:47	08/05/23 07:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				08/04/23 14:47	08/05/23 07:47	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/04/23 14:47	08/05/23 07:47	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			08/07/23 17:07	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			08/08/23 12:09	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		08/04/23 15:46	08/08/23 01:32	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/04/23 15:46	08/08/23 01:32	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/04/23 15:46	08/08/23 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	172	S1+	70 - 130				08/04/23 15:46	08/08/23 01:32	1
o-Terphenyl	160	S1+	70 - 130				08/04/23 15:46	08/08/23 01:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12200		101		mg/Kg			08/05/23 05:54	20

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (1.0')

Lab Sample ID: 880-31669-13

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 08:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 08:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 08:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 14:47	08/05/23 08:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 08:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 14:47	08/05/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/04/23 14:47	08/05/23 08:07	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/04/23 14:47	08/05/23 08:07	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			08/07/23 17:07	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			08/08/23 12:09	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		08/04/23 15:46	08/08/23 01:55	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/04/23 15:46	08/08/23 01:55	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/04/23 15:46	08/08/23 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	176	S1+	70 - 130	08/04/23 15:46	08/08/23 01:55	1
o-Terphenyl	162	S1+	70 - 130	08/04/23 15:46	08/08/23 01:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.4		5.01		mg/Kg			08/07/23 19:26	1

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

Lab Sample ID: 880-31669-14

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 08:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 08:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 08:28	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/04/23 14:47	08/05/23 08:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 08:28	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/04/23 14:47	08/05/23 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	08/04/23 14:47	08/05/23 08:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/04/23 14:47	08/05/23 08:28	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31669-14

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/08/23 02:16	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/04/23 15:46	08/08/23 02:16	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 15:46	08/08/23 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	206	S1+	70 - 130				08/04/23 15:46	08/08/23 02:16	1
o-Terphenyl	191	S1+	70 - 130				08/04/23 15:46	08/08/23 02:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.3		4.98		mg/Kg			08/07/23 19:47	1

Client Sample ID: S-4 (1.0')

Lab Sample ID: 880-31669-15

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 08:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 08:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 08:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 08:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 08:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 08:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				08/04/23 14:47	08/05/23 08:48	1
1,4-Difluorobenzene (Surr)	114		70 - 130				08/04/23 14:47	08/05/23 08:48	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			08/07/23 17:07	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			08/08/23 12:09	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		08/04/23 15:46	08/08/23 02:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/04/23 15:46	08/08/23 02:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-4 (1.0')

Lab Sample ID: 880-31669-15

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 15:46	08/08/23 02:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	195	S1+	70 - 130				08/04/23 15:46	08/08/23 02:38	1
o-Terphenyl	183	S1+	70 - 130				08/04/23 15:46	08/08/23 02:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.8		4.97		mg/Kg			08/07/23 19:54	1

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

Lab Sample ID: 880-31669-16

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 09:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 09:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 09:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/04/23 14:47	08/05/23 09:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:47	08/05/23 09:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/04/23 14:47	08/05/23 09:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/04/23 14:47	08/05/23 09:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/04/23 14:47	08/05/23 09:08	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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/08/23 02:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/04/23 15:46	08/08/23 02:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/04/23 15:46	08/08/23 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	183	S1+	70 - 130				08/04/23 15:46	08/08/23 02:59	1
o-Terphenyl	173	S1+	70 - 130				08/04/23 15:46	08/08/23 02:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.9		5.02		mg/Kg			08/07/23 20:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.0')

Lab Sample ID: 880-31669-17

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 09:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 09:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 09:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 14:47	08/05/23 09:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:47	08/05/23 09:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 14:47	08/05/23 09:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/04/23 14:47	08/05/23 09:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/04/23 14:47	08/05/23 09:29	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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/08/23 03:20	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/04/23 15:46	08/08/23 03:20	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/04/23 15:46	08/08/23 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	170	S1+	70 - 130	08/04/23 15:46	08/08/23 03:20	1
o-Terphenyl	160	S1+	70 - 130	08/04/23 15:46	08/08/23 03:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.8		4.95		mg/Kg			08/07/23 20:07	1

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-31669-18

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 09:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 09:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 09:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/04/23 14:47	08/05/23 09:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:47	08/05/23 09:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/04/23 14:47	08/05/23 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/04/23 14:47	08/05/23 09:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/04/23 14:47	08/05/23 09:49	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-31669-18

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/08/23 03:42	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		08/04/23 15:46	08/08/23 03:42	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/04/23 15:46	08/08/23 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	173	S1+	70 - 130				08/04/23 15:46	08/08/23 03:42	1
o-Terphenyl	161	S1+	70 - 130				08/04/23 15:46	08/08/23 03:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3		5.04		mg/Kg			08/07/23 20:28	1

Client Sample ID: S-6 (0-0.5')

Lab Sample ID: 880-31669-19

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 10:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 10:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 10:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 10:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 10:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 10:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/04/23 14:47	08/05/23 10:10	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/04/23 14:47	08/05/23 10:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	769		50.4		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/08/23 04:04	1
Diesel Range Organics (Over C10-C28)	769		50.4		mg/Kg		08/04/23 15:46	08/08/23 04:04	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-6 (0-0.5')

Lab Sample ID: 880-31669-19

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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)	<50.4	U	50.4		mg/Kg		08/04/23 15:46	08/08/23 04:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	197	S1+	70 - 130				08/04/23 15:46	08/08/23 04:04	1
o-Terphenyl	179	S1+	70 - 130				08/04/23 15:46	08/08/23 04:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		4.99		mg/Kg			08/07/23 20:35	1

Client Sample ID: S-6 (1.0')

Lab Sample ID: 880-31669-20

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:47	08/05/23 10:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 10:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 10:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 10:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/04/23 14:47	08/05/23 10:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/04/23 14:47	08/05/23 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/04/23 14:47	08/05/23 10:30	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/04/23 14:47	08/05/23 10:30	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			08/07/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1300		50.2		mg/Kg			08/08/23 12:09	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		08/04/23 15:46	08/08/23 04:25	1
Diesel Range Organics (Over C10-C28)	1300		50.2		mg/Kg		08/04/23 15:46	08/08/23 04:25	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/04/23 15:46	08/08/23 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	188	S1+	70 - 130				08/04/23 15:46	08/08/23 04:25	1
o-Terphenyl	164	S1+	70 - 130				08/04/23 15:46	08/08/23 04:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.2		4.98		mg/Kg			08/07/23 20:42	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-31669-1	S-1 (0-0.5')	86	96
880-31669-1 MS	S-1 (0-0.5')	94	104
880-31669-1 MSD	S-1 (0-0.5')	90	108
880-31669-2	S-1 (1.0')	85	102
880-31669-3	S-1 (1.5')	81	101
880-31669-4	S-1 (2.0')	90	108
880-31669-5	S-1 (3.0')	92	102
880-31669-6	S-1 (4.0')	101	110
880-31669-7	S-2 (0-0.5')	92	103
880-31669-8	S-2 (1.0')	93	112
880-31669-9	S-2 (1.5')	92	102
880-31669-10	S-2 (2.0')	89	104
880-31669-11	S-2 (3.0')	76	97
880-31669-12	S-3 (0-0.5')	90	110
880-31669-13	S-3 (1.0')	99	108
880-31669-14	S-4 (0-0.5')	83	102
880-31669-15	S-4 (1.0')	87	114
880-31669-16	S-5 (0-0.5')	104	99
880-31669-17	S-5 (1.0')	87	101
880-31669-18	S-5 (1.5')	97	107
880-31669-19	S-6 (0-0.5')	95	103
880-31669-20	S-6 (1.0')	91	110
LCS 880-59352/1-A	Lab Control Sample	100	102
LCSD 880-59352/2-A	Lab Control Sample Dup	98	102
MB 880-59187/5-A	Method Blank	105	121
MB 880-59352/5-A	Method Blank	105	125
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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-31669-1	S-1 (0-0.5')	185 S1+	176 S1+
880-31669-1 MS	S-1 (0-0.5')	172 S1+	141 S1+
880-31669-1 MSD	S-1 (0-0.5')	170 S1+	136 S1+
880-31669-2	S-1 (1.0')	181 S1+	171 S1+
880-31669-3	S-1 (1.5')	185 S1+	174 S1+
880-31669-4	S-1 (2.0')	180 S1+	171 S1+
880-31669-5	S-1 (3.0')	204 S1+	194 S1+
880-31669-6	S-1 (4.0')	180 S1+	170 S1+
880-31669-7	S-2 (0-0.5')	156 S1+	145 S1+
880-31669-8	S-2 (1.0')	187 S1+	178 S1+
880-31669-9	S-2 (1.5')	184 S1+	173 S1+
880-31669-10	S-2 (2.0')	187 S1+	177 S1+
880-31669-11	S-2 (3.0')	182 S1+	172 S1+

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Surrogate Summary

Client: Carmona Resources

Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1

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)
880-31669-12	S-3 (0-0.5')	172 S1+	160 S1+
880-31669-13	S-3 (1.0')	176 S1+	162 S1+
880-31669-14	S-4 (0-0.5')	206 S1+	191 S1+
880-31669-15	S-4 (1.0')	195 S1+	183 S1+
880-31669-16	S-5 (0-0.5')	183 S1+	173 S1+
880-31669-17	S-5 (1.0')	170 S1+	160 S1+
880-31669-18	S-5 (1.5')	173 S1+	161 S1+
880-31669-19	S-6 (0-0.5')	197 S1+	179 S1+
880-31669-20	S-6 (1.0')	188 S1+	164 S1+
LCS 880-59355/2-A	Lab Control Sample	181 S1+	164 S1+
LCSD 880-59355/3-A	Lab Control Sample Dup	187 S1+	172 S1+
MB 880-59355/1-A	Method Blank	159 S1+	154 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59187/5-A

Matrix: Solid

Analysis Batch: 59295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/03/23 09:27	08/04/23 14:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/03/23 09:27	08/04/23 14:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/03/23 09:27	08/04/23 14:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/03/23 09:27	08/04/23 14:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/03/23 09:27	08/04/23 14:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/03/23 09:27	08/04/23 14:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/03/23 09:27	08/04/23 14:25	1
1,4-Difluorobenzene (Surr)	121		70 - 130	08/03/23 09:27	08/04/23 14:25	1

Lab Sample ID: MB 880-59352/5-A

Matrix: Solid

Analysis Batch: 59295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 02:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 02:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 02:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 14:47	08/05/23 02:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:47	08/05/23 02:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 14:47	08/05/23 02:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/04/23 14:47	08/05/23 02:03	1
1,4-Difluorobenzene (Surr)	125		70 - 130	08/04/23 14:47	08/05/23 02:03	1

Lab Sample ID: LCS 880-59352/1-A

Matrix: Solid

Analysis Batch: 59295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1004		mg/Kg		100	70 - 130
Toluene	0.100	0.1086		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.09932		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2215		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1077		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-59352/2-A

Matrix: Solid

Analysis Batch: 59295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59352

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1098		mg/Kg		110	70 - 130	9	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-59352/2-A

Matrix: Solid

Analysis Batch: 59295

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59352

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1116		mg/Kg		112	70 - 130	3	35
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2306		mg/Kg		115	70 - 130	4	35
o-Xylene	0.100	0.1117		mg/Kg		112	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-31669-1 MS

Matrix: Solid

Analysis Batch: 59295

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

Prep Type: Total/NA

Prep Batch: 59352

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0996	0.09161		mg/Kg		92	70 - 130
Toluene	<0.00202	U	0.0996	0.08289		mg/Kg		83	70 - 130
Ethylbenzene	<0.00202	U F1	0.0996	0.06928		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1587		mg/Kg		80	70 - 130
o-Xylene	<0.00202	U	0.0996	0.07704		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-31669-1 MSD

Matrix: Solid

Analysis Batch: 59295

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

Prep Type: Total/NA

Prep Batch: 59352

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0998	0.08606		mg/Kg		86	70 - 130	6	35
Toluene	<0.00202	U	0.0998	0.07723		mg/Kg		77	70 - 130	7	35
Ethylbenzene	<0.00202	U F1	0.0998	0.06104	F1	mg/Kg		61	70 - 130	13	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1461		mg/Kg		73	70 - 130	8	35
o-Xylene	<0.00202	U	0.0998	0.07256		mg/Kg		72	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-59355/1-A

Matrix: Solid

Analysis Batch: 59413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59355

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		08/04/23 15:46	08/07/23 19:19	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-59355/1-A

Matrix: Solid

Analysis Batch: 59413

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59355

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		08/04/23 15:46	08/07/23 19:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/23 15:46	08/07/23 19:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130				08/04/23 15:46	08/07/23 19:19	1
o-Terphenyl	154	S1+	70 - 130				08/04/23 15:46	08/07/23 19:19	1

Lab Sample ID: LCS 880-59355/2-A

Matrix: Solid

Analysis Batch: 59413

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1006		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	181	S1+	70 - 130				
o-Terphenyl	164	S1+	70 - 130				

Lab Sample ID: LCSD 880-59355/3-A

Matrix: Solid

Analysis Batch: 59413

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	995.6		mg/Kg		100	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	964.3		mg/Kg		96	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	187	S1+	70 - 130						
o-Terphenyl	172	S1+	70 - 130						

Lab Sample ID: 880-31669-1 MS

Matrix: Solid

Analysis Batch: 59413

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

Prep Type: Total/NA

Prep Batch: 59355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	1010	1176		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<50.2	U F1	1010	1845	F1	mg/Kg		181	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	172	S1+	70 - 130						
o-Terphenyl	141	S1+	70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31669-1 MSD

Matrix: Solid

Analysis Batch: 59413

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

Prep Type: Total/NA

Prep Batch: 59355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	1010	1165		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.2	U F1	1010	1788	F1	mg/Kg		175	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	170	S1+	70 - 130								
o-Terphenyl	136	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59303/1-A

Matrix: Solid

Analysis Batch: 59358

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			08/05/23 03:25	1

Lab Sample ID: LCS 880-59303/2-A

Matrix: Solid

Analysis Batch: 59358

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-59303/3-A

Matrix: Solid

Analysis Batch: 59358

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.1		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-31669-3 MS

Matrix: Solid

Analysis Batch: 59358

Client Sample ID: S-1 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6620	F1	2530	9431	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-31669-3 MSD

Matrix: Solid

Analysis Batch: 59358

Client Sample ID: S-1 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6620	F1	2530	9438	F1	mg/Kg		111	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-59302/1-A

Matrix: Solid

Analysis Batch: 59511

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			08/07/23 19:06	1

Lab Sample ID: LCS 880-59302/2-A

Matrix: Solid

Analysis Batch: 59511

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-59302/3-A

Matrix: Solid

Analysis Batch: 59511

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	241.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-31669-13 MS

Matrix: Solid

Analysis Batch: 59511

Client Sample ID: S-3 (1.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	88.4		251	324.6		mg/Kg		94	90 - 110

Lab Sample ID: 880-31669-13 MSD

Matrix: Solid

Analysis Batch: 59511

Client Sample ID: S-3 (1.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	88.4		251	324.9		mg/Kg		94	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 59187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59187/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 59295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-1	S-1 (0-0.5')	Total/NA	Solid	8021B	59352
880-31669-2	S-1 (1.0')	Total/NA	Solid	8021B	59352
880-31669-3	S-1 (1.5')	Total/NA	Solid	8021B	59352
880-31669-4	S-1 (2.0')	Total/NA	Solid	8021B	59352
880-31669-5	S-1 (3.0')	Total/NA	Solid	8021B	59352
880-31669-6	S-1 (4.0')	Total/NA	Solid	8021B	59352
880-31669-7	S-2 (0-0.5')	Total/NA	Solid	8021B	59352
880-31669-8	S-2 (1.0')	Total/NA	Solid	8021B	59352
880-31669-9	S-2 (1.5')	Total/NA	Solid	8021B	59352
880-31669-10	S-2 (2.0')	Total/NA	Solid	8021B	59352
880-31669-11	S-2 (3.0')	Total/NA	Solid	8021B	59352
880-31669-12	S-3 (0-0.5')	Total/NA	Solid	8021B	59352
880-31669-13	S-3 (1.0')	Total/NA	Solid	8021B	59352
880-31669-14	S-4 (0-0.5')	Total/NA	Solid	8021B	59352
880-31669-15	S-4 (1.0')	Total/NA	Solid	8021B	59352
880-31669-16	S-5 (0-0.5')	Total/NA	Solid	8021B	59352
880-31669-17	S-5 (1.0')	Total/NA	Solid	8021B	59352
880-31669-18	S-5 (1.5')	Total/NA	Solid	8021B	59352
880-31669-19	S-6 (0-0.5')	Total/NA	Solid	8021B	59352
880-31669-20	S-6 (1.0')	Total/NA	Solid	8021B	59352
MB 880-59187/5-A	Method Blank	Total/NA	Solid	8021B	59187
MB 880-59352/5-A	Method Blank	Total/NA	Solid	8021B	59352
LCS 880-59352/1-A	Lab Control Sample	Total/NA	Solid	8021B	59352
LCSD 880-59352/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59352
880-31669-1 MS	S-1 (0-0.5')	Total/NA	Solid	8021B	59352
880-31669-1 MSD	S-1 (0-0.5')	Total/NA	Solid	8021B	59352

Prep Batch: 59352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-1	S-1 (0-0.5')	Total/NA	Solid	5035	
880-31669-2	S-1 (1.0')	Total/NA	Solid	5035	
880-31669-3	S-1 (1.5')	Total/NA	Solid	5035	
880-31669-4	S-1 (2.0')	Total/NA	Solid	5035	
880-31669-5	S-1 (3.0')	Total/NA	Solid	5035	
880-31669-6	S-1 (4.0')	Total/NA	Solid	5035	
880-31669-7	S-2 (0-0.5')	Total/NA	Solid	5035	
880-31669-8	S-2 (1.0')	Total/NA	Solid	5035	
880-31669-9	S-2 (1.5')	Total/NA	Solid	5035	
880-31669-10	S-2 (2.0')	Total/NA	Solid	5035	
880-31669-11	S-2 (3.0')	Total/NA	Solid	5035	
880-31669-12	S-3 (0-0.5')	Total/NA	Solid	5035	
880-31669-13	S-3 (1.0')	Total/NA	Solid	5035	
880-31669-14	S-4 (0-0.5')	Total/NA	Solid	5035	
880-31669-15	S-4 (1.0')	Total/NA	Solid	5035	
880-31669-16	S-5 (0-0.5')	Total/NA	Solid	5035	
880-31669-17	S-5 (1.0')	Total/NA	Solid	5035	
880-31669-18	S-5 (1.5')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Prep Batch: 59352 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-19	S-6 (0-0.5')	Total/NA	Solid	5035	
880-31669-20	S-6 (1.0')	Total/NA	Solid	5035	
MB 880-59352/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59352/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59352/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31669-1 MS	S-1 (0-0.5')	Total/NA	Solid	5035	
880-31669-1 MSD	S-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 59566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31669-2	S-1 (1.0')	Total/NA	Solid	Total BTEX	
880-31669-3	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-31669-4	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-31669-5	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-31669-6	S-1 (4.0')	Total/NA	Solid	Total BTEX	
880-31669-7	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31669-8	S-2 (1.0')	Total/NA	Solid	Total BTEX	
880-31669-9	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-31669-10	S-2 (2.0')	Total/NA	Solid	Total BTEX	
880-31669-11	S-2 (3.0')	Total/NA	Solid	Total BTEX	
880-31669-12	S-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31669-13	S-3 (1.0')	Total/NA	Solid	Total BTEX	
880-31669-14	S-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31669-15	S-4 (1.0')	Total/NA	Solid	Total BTEX	
880-31669-16	S-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31669-17	S-5 (1.0')	Total/NA	Solid	Total BTEX	
880-31669-18	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-31669-19	S-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31669-20	S-6 (1.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31669-2	S-1 (1.0')	Total/NA	Solid	8015NM Prep	
880-31669-3	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-31669-4	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-31669-5	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-31669-6	S-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-31669-7	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31669-8	S-2 (1.0')	Total/NA	Solid	8015NM Prep	
880-31669-9	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-31669-10	S-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-31669-11	S-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-31669-12	S-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31669-13	S-3 (1.0')	Total/NA	Solid	8015NM Prep	
880-31669-14	S-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31669-15	S-4 (1.0')	Total/NA	Solid	8015NM Prep	
880-31669-16	S-5 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 59355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-17	S-5 (1.0')	Total/NA	Solid	8015NM Prep	
880-31669-18	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-31669-19	S-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31669-20	S-6 (1.0')	Total/NA	Solid	8015NM Prep	
MB 880-59355/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59355/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59355/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31669-1 MS	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31669-1 MSD	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	59355
880-31669-2	S-1 (1.0')	Total/NA	Solid	8015B NM	59355
880-31669-3	S-1 (1.5')	Total/NA	Solid	8015B NM	59355
880-31669-4	S-1 (2.0')	Total/NA	Solid	8015B NM	59355
880-31669-5	S-1 (3.0')	Total/NA	Solid	8015B NM	59355
880-31669-6	S-1 (4.0')	Total/NA	Solid	8015B NM	59355
880-31669-7	S-2 (0-0.5')	Total/NA	Solid	8015B NM	59355
880-31669-8	S-2 (1.0')	Total/NA	Solid	8015B NM	59355
880-31669-9	S-2 (1.5')	Total/NA	Solid	8015B NM	59355
880-31669-10	S-2 (2.0')	Total/NA	Solid	8015B NM	59355
880-31669-11	S-2 (3.0')	Total/NA	Solid	8015B NM	59355
880-31669-12	S-3 (0-0.5')	Total/NA	Solid	8015B NM	59355
880-31669-13	S-3 (1.0')	Total/NA	Solid	8015B NM	59355
880-31669-14	S-4 (0-0.5')	Total/NA	Solid	8015B NM	59355
880-31669-15	S-4 (1.0')	Total/NA	Solid	8015B NM	59355
880-31669-16	S-5 (0-0.5')	Total/NA	Solid	8015B NM	59355
880-31669-17	S-5 (1.0')	Total/NA	Solid	8015B NM	59355
880-31669-18	S-5 (1.5')	Total/NA	Solid	8015B NM	59355
880-31669-19	S-6 (0-0.5')	Total/NA	Solid	8015B NM	59355
880-31669-20	S-6 (1.0')	Total/NA	Solid	8015B NM	59355
MB 880-59355/1-A	Method Blank	Total/NA	Solid	8015B NM	59355
LCS 880-59355/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59355
LCSD 880-59355/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59355
880-31669-1 MS	S-1 (0-0.5')	Total/NA	Solid	8015B NM	59355
880-31669-1 MSD	S-1 (0-0.5')	Total/NA	Solid	8015B NM	59355

Analysis Batch: 59634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-31669-2	S-1 (1.0')	Total/NA	Solid	8015 NM	
880-31669-3	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-31669-4	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-31669-5	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-31669-6	S-1 (4.0')	Total/NA	Solid	8015 NM	
880-31669-7	S-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-31669-8	S-2 (1.0')	Total/NA	Solid	8015 NM	
880-31669-9	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-31669-10	S-2 (2.0')	Total/NA	Solid	8015 NM	
880-31669-11	S-2 (3.0')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 59634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-12	S-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-31669-13	S-3 (1.0')	Total/NA	Solid	8015 NM	
880-31669-14	S-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-31669-15	S-4 (1.0')	Total/NA	Solid	8015 NM	
880-31669-16	S-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-31669-17	S-5 (1.0')	Total/NA	Solid	8015 NM	
880-31669-18	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-31669-19	S-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-31669-20	S-6 (1.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-13	S-3 (1.0')	Soluble	Solid	DI Leach	
880-31669-14	S-4 (0-0.5')	Soluble	Solid	DI Leach	
880-31669-15	S-4 (1.0')	Soluble	Solid	DI Leach	
880-31669-16	S-5 (0-0.5')	Soluble	Solid	DI Leach	
880-31669-17	S-5 (1.0')	Soluble	Solid	DI Leach	
880-31669-18	S-5 (1.5')	Soluble	Solid	DI Leach	
880-31669-19	S-6 (0-0.5')	Soluble	Solid	DI Leach	
880-31669-20	S-6 (1.0')	Soluble	Solid	DI Leach	
MB 880-59302/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59302/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59302/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31669-13 MS	S-3 (1.0')	Soluble	Solid	DI Leach	
880-31669-13 MSD	S-3 (1.0')	Soluble	Solid	DI Leach	

Leach Batch: 59303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
880-31669-2	S-1 (1.0')	Soluble	Solid	DI Leach	
880-31669-3	S-1 (1.5')	Soluble	Solid	DI Leach	
880-31669-4	S-1 (2.0')	Soluble	Solid	DI Leach	
880-31669-5	S-1 (3.0')	Soluble	Solid	DI Leach	
880-31669-6	S-1 (4.0')	Soluble	Solid	DI Leach	
880-31669-7	S-2 (0-0.5')	Soluble	Solid	DI Leach	
880-31669-8	S-2 (1.0')	Soluble	Solid	DI Leach	
880-31669-9	S-2 (1.5')	Soluble	Solid	DI Leach	
880-31669-10	S-2 (2.0')	Soluble	Solid	DI Leach	
880-31669-11	S-2 (3.0')	Soluble	Solid	DI Leach	
880-31669-12	S-3 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-59303/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59303/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59303/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31669-3 MS	S-1 (1.5')	Soluble	Solid	DI Leach	
880-31669-3 MSD	S-1 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 59358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-1	S-1 (0-0.5')	Soluble	Solid	300.0	59303

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 59358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-2	S-1 (1.0')	Soluble	Solid	300.0	59303
880-31669-3	S-1 (1.5')	Soluble	Solid	300.0	59303
880-31669-4	S-1 (2.0')	Soluble	Solid	300.0	59303
880-31669-5	S-1 (3.0')	Soluble	Solid	300.0	59303
880-31669-6	S-1 (4.0')	Soluble	Solid	300.0	59303
880-31669-7	S-2 (0-0.5')	Soluble	Solid	300.0	59303
880-31669-8	S-2 (1.0')	Soluble	Solid	300.0	59303
880-31669-9	S-2 (1.5')	Soluble	Solid	300.0	59303
880-31669-10	S-2 (2.0')	Soluble	Solid	300.0	59303
880-31669-11	S-2 (3.0')	Soluble	Solid	300.0	59303
880-31669-12	S-3 (0-0.5')	Soluble	Solid	300.0	59303
MB 880-59303/1-A	Method Blank	Soluble	Solid	300.0	59303
LCS 880-59303/2-A	Lab Control Sample	Soluble	Solid	300.0	59303
LCSD 880-59303/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59303
880-31669-3 MS	S-1 (1.5')	Soluble	Solid	300.0	59303
880-31669-3 MSD	S-1 (1.5')	Soluble	Solid	300.0	59303

Analysis Batch: 59511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31669-13	S-3 (1.0')	Soluble	Solid	300.0	59302
880-31669-14	S-4 (0-0.5')	Soluble	Solid	300.0	59302
880-31669-15	S-4 (1.0')	Soluble	Solid	300.0	59302
880-31669-16	S-5 (0-0.5')	Soluble	Solid	300.0	59302
880-31669-17	S-5 (1.0')	Soluble	Solid	300.0	59302
880-31669-18	S-5 (1.5')	Soluble	Solid	300.0	59302
880-31669-19	S-6 (0-0.5')	Soluble	Solid	300.0	59302
880-31669-20	S-6 (1.0')	Soluble	Solid	300.0	59302
MB 880-59302/1-A	Method Blank	Soluble	Solid	300.0	59302
LCS 880-59302/2-A	Lab Control Sample	Soluble	Solid	300.0	59302
LCSD 880-59302/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59302
880-31669-13 MS	S-3 (1.0')	Soluble	Solid	300.0	59302
880-31669-13 MSD	S-3 (1.0')	Soluble	Solid	300.0	59302

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31669-1

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 02:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/07/23 20:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		20			59358	08/05/23 04:39	CH	EET MID

Client Sample ID: S-1 (1.0')

Lab Sample ID: 880-31669-2

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 02:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/07/23 21:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		20			59358	08/05/23 04:44	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-31669-3

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 03:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/07/23 21:56	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		10			59358	08/05/23 04:49	CH	EET MID

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-31669-4

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 03:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-31669-4

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/07/23 22:18	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		10			59358	08/05/23 05:04	CH	EET MID

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-31669-5

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 03:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/07/23 22:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		5			59358	08/05/23 05:09	CH	EET MID

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-31669-6

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 04:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/07/23 23:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		5			59358	08/05/23 05:24	CH	EET MID

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

Lab Sample ID: 880-31669-7

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 04:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/07/23 23:23	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-31669-7

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		20			59358	08/05/23 05:29	CH	EET MID

Client Sample ID: S-2 (1.0')

Lab Sample ID: 880-31669-8

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 04:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/07/23 23:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		20			59358	08/05/23 05:34	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-31669-9

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 05:16	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 00:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		20			59358	08/05/23 05:39	CH	EET MID

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-31669-10

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 05:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 00:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		20			59358	08/05/23 05:44	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-31669-11

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 07:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 01:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		50			59358	08/05/23 05:49	CH	EET MID

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

Lab Sample ID: 880-31669-12

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 07:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 01:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		20			59358	08/05/23 05:54	CH	EET MID

Client Sample ID: S-3 (1.0')

Lab Sample ID: 880-31669-13

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 08:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 01:55	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	59302	08/04/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			59511	08/07/23 19:26	CH	EET MID

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

Lab Sample ID: 880-31669-14

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 08:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

Date Collected: 07/31/23 00:00

Date Received: 08/03/23 16:09

Lab Sample ID: 880-31669-14

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			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 02:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59302	08/04/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			59511	08/07/23 19:47	CH	EET MID

Client Sample ID: S-4 (1.0')

Date Collected: 07/31/23 00:00

Date Received: 08/03/23 16:09

Lab Sample ID: 880-31669-15

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			4.97 g	5 mL	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 08:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 02:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59302	08/04/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			59511	08/07/23 19:54	CH	EET MID

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

Date Collected: 07/31/23 00:00

Date Received: 08/03/23 16:09

Lab Sample ID: 880-31669-16

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			4.96 g	5 mL	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 09:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 02:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59302	08/04/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			59511	08/07/23 20:01	CH	EET MID

Client Sample ID: S-5 (1.0')

Date Collected: 07/31/23 00:00

Date Received: 08/03/23 16:09

Lab Sample ID: 880-31669-17

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			5.02 g	5 mL	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 09:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 03:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Client Sample ID: S-5 (1.0')

Date Collected: 07/31/23 00:00

Date Received: 08/03/23 16:09

Lab Sample ID: 880-31669-17

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			5.05 g	50 mL	59302	08/04/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			59511	08/07/23 20:07	CH	EET MID

Client Sample ID: S-5 (1.5')

Date Collected: 07/31/23 00:00

Date Received: 08/03/23 16:09

Lab Sample ID: 880-31669-18

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			5.05 g	5 mL	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 09:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 03:42	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59302	08/04/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			59511	08/07/23 20:28	CH	EET MID

Client Sample ID: S-6 (0-0.5')

Date Collected: 07/31/23 00:00

Date Received: 08/03/23 16:09

Lab Sample ID: 880-31669-19

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	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 10:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 04:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59302	08/04/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			59511	08/07/23 20:35	CH	EET MID

Client Sample ID: S-6 (1.0')

Date Collected: 07/31/23 00:00

Date Received: 08/03/23 16:09

Lab Sample ID: 880-31669-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	59352	08/04/23 14:47	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59295	08/05/23 10:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59566	08/07/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			59634	08/08/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	59355	08/04/23 15:46	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59413	08/08/23 04:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59302	08/04/23 09:36	KS	EET MID
Soluble	Analysis	300.0		1			59511	08/07/23 20:42	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
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
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
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: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31669-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31669-1	S-1 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-2	S-1 (1.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-3	S-1 (1.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-4	S-1 (2.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-5	S-1 (3.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-6	S-1 (4.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-7	S-2 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-8	S-2 (1.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-9	S-2 (1.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-10	S-2 (2.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-11	S-2 (3.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-12	S-3 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-13	S-3 (1.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-14	S-4 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-15	S-4 (1.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-16	S-5 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-17	S-5 (1.0')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-18	S-5 (1.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-19	S-6 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31669-20	S-6 (1.0')	Solid	07/31/23 00:00	08/03/23 16:09

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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	mcarmona@carmonaresources.com

Project Name:	Asio Otis Fed #3 (6.22.23)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	2073	Due Date	72 Hrs		
Project Location:	Eddy County, New Mexico				
Sampler's Name:	MM				
PO #:					

SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading		
Total Containers:		Corrected Temperature:		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters
S-1 (0-0.5')	7/31/2023		X		G	1	X X X X
S-1 (1.0')	7/31/2023		X		G	1	X X X X
S-1 (1.5')	7/31/2023		X		G	1	X X X X
S-1 (2.0')	7/31/2023		X		G	1	X X X X
S-1 (3.0')	7/31/2023		X		G	1	X X X X
S-1 (4.0')	7/31/2023		X		G	1	X X X X
S-2 (0-0.5')	7/31/2023		X		G	1	X X X X
S-2 (1.0')	7/31/2023		X		G	1	X X X X
S-2 (1.5')	7/31/2023		X		G	1	X X X X
S-2 (2.0')	7/31/2023		X		G	1	X 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
	6/31/23		7/00/23



Page 1 of 2

Work Order Comments

Program: UST/PST ☐ PRP ☐ Rowfields ☐ RC ☐ Iperfund ☐

State of Project:

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

Deliverables: EDD ☐ ADAPT ☐ Other

Preservative Codes

None NO DI Water H₂O

Coil Cool MeOH Me

HCL, HC HNO₃, HN

H₂SO₄, H₂ NaOH Na

H₃PO₄, HP

NaHSO₄, NABIS

Na₂S₂O₃, NaSO₃

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-31669-1

SDG Number: Eddy County, New Mexico

Login Number: 31669

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

Generated 8/8/2023 11:36:04 AM

JOB DESCRIPTION

Asio Otis Fed #3 (6.22.23)
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-31668-1

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
8/8/2023 11:36:04 AM

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

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Laboratory Job ID: 880-31668-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

Job ID: 880-31668-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-31668-1****Receipt**

The samples were received on 8/3/2023 4:09 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 -1.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-31668-1), H-2 (0-0.5') (880-31668-2), H-3 (0-0.5') (880-31668-3), H-4 (0-0.5') (880-31668-4), H-5 (0-0.5') (880-31668-5) and H-6 (0-0.5') (880-31668-6).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-59296 recovered below the lower control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-59296/33).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59350 and analytical batch 880-59296 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: The continuing calibration verification (CCV) associated with batch 880-59296 recovered above the upper control limit for Toluene. 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 880-59296/64).

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 880-59359 and analytical batch 880-59411 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-3 (0-0.5') (880-31668-3), (CCV 880-59411/47), (CCV 880-59411/58), (LCSD 880-59359/3-A) and (880-31666-A-2-C). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-59359 and analytical batch 880-59411 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-59359 and analytical batch 880-59411 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31668-1

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:26	08/05/23 16:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:26	08/05/23 16:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:26	08/05/23 16:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/04/23 14:26	08/05/23 16:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:26	08/05/23 16:42	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/04/23 14:26	08/05/23 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	08/04/23 14:26	08/05/23 16:42	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/04/23 14:26	08/05/23 16:42	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			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.6		50.5		mg/Kg			08/08/23 12:15	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		08/04/23 16:02	08/08/23 02:38	1
Diesel Range Organics (Over C10-C28)	53.6	*1	50.5		mg/Kg		08/04/23 16:02	08/08/23 02:38	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/04/23 16:02	08/08/23 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/04/23 16:02	08/08/23 02:38	1
o-Terphenyl	112		70 - 130	08/04/23 16:02	08/08/23 02:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		25.3		mg/Kg			08/05/23 04:00	5

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

Lab Sample ID: 880-31668-2

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:26	08/05/23 17:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:26	08/05/23 17:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:26	08/05/23 17:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/04/23 14:26	08/05/23 17:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:26	08/05/23 17:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/04/23 14:26	08/05/23 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/04/23 14:26	08/05/23 17:02	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/04/23 14:26	08/05/23 17:02	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31668-2

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			08/07/23 16:13	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		50.0		mg/Kg			08/08/23 12:15	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		08/04/23 16:02	08/08/23 02:59	1
Diesel Range Organics (Over C10-C28)	50.0	*1	50.0		mg/Kg		08/04/23 16:02	08/08/23 02:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/23 16:02	08/08/23 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/04/23 16:02	08/08/23 02:59	1
o-Terphenyl	110		70 - 130				08/04/23 16:02	08/08/23 02:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.5		5.03		mg/Kg			08/05/23 04:05	1

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

Lab Sample ID: 880-31668-3

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:26	08/05/23 17:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:26	08/05/23 17:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:26	08/05/23 17:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/04/23 14:26	08/05/23 17:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/04/23 14:26	08/05/23 17:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/04/23 14:26	08/05/23 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				08/04/23 14:26	08/05/23 17:23	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/04/23 14:26	08/05/23 17:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.1		50.4		mg/Kg			08/08/23 12:15	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		08/04/23 16:02	08/08/23 03:20	1
Diesel Range Organics (Over C10-C28)	59.1	*1	50.4		mg/Kg		08/04/23 16:02	08/08/23 03:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31668-3

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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)	<50.4	U	50.4		mg/Kg		08/04/23 16:02	08/08/23 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				08/04/23 16:02	08/08/23 03:20	1
o-Terphenyl	149	S1+	70 - 130				08/04/23 16:02	08/08/23 03:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		25.0		mg/Kg			08/05/23 04:10	5

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

Lab Sample ID: 880-31668-4

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:26	08/05/23 17:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:26	08/05/23 17:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:26	08/05/23 17:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/04/23 14:26	08/05/23 17:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:26	08/05/23 17:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/04/23 14:26	08/05/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/04/23 14:26	08/05/23 17:44	1
1,4-Difluorobenzene (Surr)	114		70 - 130				08/04/23 14:26	08/05/23 17:44	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			08/07/23 16:13	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			08/08/23 12:15	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		08/04/23 16:02	08/08/23 03:42	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		08/04/23 16:02	08/08/23 03:42	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/04/23 16:02	08/08/23 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/04/23 16:02	08/08/23 03:42	1
o-Terphenyl	113		70 - 130				08/04/23 16:02	08/08/23 03:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.3		4.96		mg/Kg			08/05/23 04:25	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31668-5

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:26	08/05/23 18:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:26	08/05/23 18:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:26	08/05/23 18:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/04/23 14:26	08/05/23 18:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/04/23 14:26	08/05/23 18:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/04/23 14:26	08/05/23 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	08/04/23 14:26	08/05/23 18:05	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/04/23 14:26	08/05/23 18:05	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			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.5		49.6		mg/Kg			08/08/23 12:15	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		08/04/23 16:02	08/08/23 04:04	1
Diesel Range Organics (Over C10-C28)	55.5	*1	49.6		mg/Kg		08/04/23 16:02	08/08/23 04:04	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/04/23 16:02	08/08/23 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/04/23 16:02	08/08/23 04:04	1
o-Terphenyl	95		70 - 130	08/04/23 16:02	08/08/23 04:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.8		4.96		mg/Kg			08/05/23 04:30	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-31668-6

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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		08/04/23 14:26	08/05/23 18:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:26	08/05/23 18:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:26	08/05/23 18:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/04/23 14:26	08/05/23 18:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/04/23 14:26	08/05/23 18:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/04/23 14:26	08/05/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	08/04/23 14:26	08/05/23 18:26	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/04/23 14:26	08/05/23 18:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-31668-6

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			08/07/23 16:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.7		49.9		mg/Kg			08/08/23 12:15	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		08/04/23 16:02	08/08/23 04:25	1
Diesel Range Organics (Over C10-C28)	50.7	*1	49.9		mg/Kg		08/04/23 16:02	08/08/23 04:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/04/23 16:02	08/08/23 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				08/04/23 16:02	08/08/23 04:25	1
o-Terphenyl	126		70 - 130				08/04/23 16:02	08/08/23 04:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		24.9		mg/Kg			08/05/23 04:35	5

Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-31305-A-21-C MS	Matrix Spike	99	97
880-31305-A-21-D MSD	Matrix Spike Duplicate	99	100
880-31668-1	H-1 (0-0.5')	93	112
880-31668-2	H-2 (0-0.5')	89	114
880-31668-3	H-3 (0-0.5')	89	113
880-31668-4	H-4 (0-0.5')	94	114
880-31668-5	H-5 (0-0.5')	89	115
880-31668-6	H-6 (0-0.5')	86	114
LCS 880-59350/1-A	Lab Control Sample	110	101
LCSD 880-59350/2-A	Lab Control Sample Dup	94	100
MB 880-59346/5-A	Method Blank	84	88
MB 880-59350/5-A	Method Blank	85	90
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31666-A-2-D MS	Matrix Spike	120	119
880-31666-A-2-E MSD	Matrix Spike Duplicate	117	120
880-31668-1	H-1 (0-0.5')	104	112
880-31668-2	H-2 (0-0.5')	102	110
880-31668-3	H-3 (0-0.5')	139 S1+	149 S1+
880-31668-4	H-4 (0-0.5')	104	113
880-31668-5	H-5 (0-0.5')	85	95
880-31668-6	H-6 (0-0.5')	114	126
LCS 880-59359/2-A	Lab Control Sample	91	108
LCSD 880-59359/3-A	Lab Control Sample Dup	117	137 S1+
MB 880-59359/1-A	Method Blank	122	143 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-59346/5-A

Matrix: Solid

Analysis Batch: 59296

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 13:45	08/04/23 23:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 13:45	08/04/23 23:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	08/04/23 13:45	08/04/23 23:23	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/04/23 13:45	08/04/23 23:23	1

Lab Sample ID: MB 880-59350/5-A

Matrix: Solid

Analysis Batch: 59296

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:26	08/05/23 10:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:26	08/05/23 10:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:26	08/05/23 10:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/23 14:26	08/05/23 10:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/23 14:26	08/05/23 10:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/23 14:26	08/05/23 10:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/04/23 14:26	08/05/23 10:02	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/04/23 14:26	08/05/23 10:02	1

Lab Sample ID: LCS 880-59350/1-A

Matrix: Solid

Analysis Batch: 59296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1018		mg/Kg		102	70 - 130
Toluene	0.100	0.1209		mg/Kg		121	70 - 130
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2045		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130

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

Lab Sample ID: LCSD 880-59350/2-A

Matrix: Solid

Analysis Batch: 59296

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08796		mg/Kg		88	70 - 130	15	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-59350/2-A

Matrix: Solid

Analysis Batch: 59296

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09858		mg/Kg		99	70 - 130	20	35
Ethylbenzene	0.100	0.08246		mg/Kg		82	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.1572		mg/Kg		79	70 - 130	26	35
o-Xylene	0.100	0.08079		mg/Kg		81	70 - 130	26	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-31305-A-21-C MS

Matrix: Solid

Analysis Batch: 59296

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 59350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.0996	0.06537	F1	mg/Kg		66	70 - 130
Toluene	<0.00200	U	0.0996	0.07343		mg/Kg		74	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.06585	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1248	F1	mg/Kg		63	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.06244	F1	mg/Kg		63	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-31305-A-21-D MSD

Matrix: Solid

Analysis Batch: 59296

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 59350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.07193		mg/Kg		71	70 - 130	10	35
Toluene	<0.00200	U	0.101	0.07918		mg/Kg		79	70 - 130	8	35
Ethylbenzene	<0.00200	U F1	0.101	0.06939	F1	mg/Kg		69	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1309	F1	mg/Kg		65	70 - 130	5	35
o-Xylene	<0.00200	U F1	0.101	0.06524	F1	mg/Kg		65	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-59359/1-A

Matrix: Solid

Analysis Batch: 59411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59359

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		08/04/23 16:02	08/07/23 19:19	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-59359/1-A

Matrix: Solid

Analysis Batch: 59411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59359

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		08/04/23 16:02	08/07/23 19:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/04/23 16:02	08/07/23 19:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				08/04/23 16:02	08/07/23 19:19	1
o-Terphenyl	143	S1+	70 - 130				08/04/23 16:02	08/07/23 19:19	1

Lab Sample ID: LCS 880-59359/2-A

Matrix: Solid

Analysis Batch: 59411

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1071		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	854.8		mg/Kg		85	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	91		70 - 130				
o-Terphenyl	108		70 - 130				

Lab Sample ID: LCSD 880-59359/3-A

Matrix: Solid

Analysis Batch: 59411

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59359

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	880.8		mg/Kg		88	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	1089	*1	mg/Kg		109	70 - 130	24	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	137	S1+	70 - 130						

Lab Sample ID: 880-31666-A-2-D MS

Matrix: Solid

Analysis Batch: 59411

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 59359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	67.8		999	1028		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1170	*1 F1	999	1692	F1	mg/Kg		52	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	119		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31666-A-2-E MSD

Matrix: Solid

Analysis Batch: 59411

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 59359

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	67.8		999	991.5		mg/Kg		92	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1170	*1 F1	999	1685	F1	mg/Kg		51	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	117		70 - 130								
o-Terphenyl	120		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59303/1-A

Matrix: Solid

Analysis Batch: 59358

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			08/05/23 03:25	1

Lab Sample ID: LCS 880-59303/2-A

Matrix: Solid

Analysis Batch: 59358

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-59303/3-A

Matrix: Solid

Analysis Batch: 59358

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.1		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-31667-A-5-C MS

Matrix: Solid

Analysis Batch: 59358

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	489		251	718.3		mg/Kg		92	90 - 110

Lab Sample ID: 880-31667-A-5-D MSD

Matrix: Solid

Analysis Batch: 59358

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	489		251	718.7		mg/Kg		92	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 59296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-1	H-1 (0-0.5')	Total/NA	Solid	8021B	59350
880-31668-2	H-2 (0-0.5')	Total/NA	Solid	8021B	59350
880-31668-3	H-3 (0-0.5')	Total/NA	Solid	8021B	59350
880-31668-4	H-4 (0-0.5')	Total/NA	Solid	8021B	59350
880-31668-5	H-5 (0-0.5')	Total/NA	Solid	8021B	59350
880-31668-6	H-6 (0-0.5')	Total/NA	Solid	8021B	59350
MB 880-59346/5-A	Method Blank	Total/NA	Solid	8021B	59346
MB 880-59350/5-A	Method Blank	Total/NA	Solid	8021B	59350
LCS 880-59350/1-A	Lab Control Sample	Total/NA	Solid	8021B	59350
LCSD 880-59350/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	59350
880-31305-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	59350
880-31305-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	59350

Prep Batch: 59346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59346/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 59350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-31668-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-31668-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-31668-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-31668-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-31668-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-59350/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-59350/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-59350/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31305-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
880-31305-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 59557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31668-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31668-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31668-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31668-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-31668-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31668-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31668-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31668-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31668-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-31668-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-59359/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 59359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-59359/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59359/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31666-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31666-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	59359
880-31668-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	59359
880-31668-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	59359
880-31668-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	59359
880-31668-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	59359
880-31668-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	59359
MB 880-59359/1-A	Method Blank	Total/NA	Solid	8015B NM	59359
LCS 880-59359/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59359
LCSD 880-59359/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59359
880-31666-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	59359
880-31666-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59359

Analysis Batch: 59640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-31668-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-31668-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-31668-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-31668-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-31668-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-31668-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-31668-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-31668-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-31668-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-31668-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-59303/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59303/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59303/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-31667-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-31667-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 59358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-1	H-1 (0-0.5')	Soluble	Solid	300.0	59303
880-31668-2	H-2 (0-0.5')	Soluble	Solid	300.0	59303
880-31668-3	H-3 (0-0.5')	Soluble	Solid	300.0	59303
880-31668-4	H-4 (0-0.5')	Soluble	Solid	300.0	59303
880-31668-5	H-5 (0-0.5')	Soluble	Solid	300.0	59303

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 59358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-31668-6	H-6 (0-0.5')	Soluble	Solid	300.0	59303
MB 880-59303/1-A	Method Blank	Soluble	Solid	300.0	59303
LCS 880-59303/2-A	Lab Control Sample	Soluble	Solid	300.0	59303
LCSD 880-59303/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59303
880-31667-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	59303
880-31667-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	59303

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31668-1

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59350	08/04/23 14:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 16:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59557	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			59640	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	59359	08/04/23 16:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/08/23 02:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		5			59358	08/05/23 04:00	CH	EET MID

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

Lab Sample ID: 880-31668-2

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59350	08/04/23 14:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 17:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59557	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			59640	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59359	08/04/23 16:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/08/23 02:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		1			59358	08/05/23 04:05	CH	EET MID

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

Lab Sample ID: 880-31668-3

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59350	08/04/23 14:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 17:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59557	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			59640	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59359	08/04/23 16:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/08/23 03:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		5			59358	08/05/23 04:10	CH	EET MID

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

Lab Sample ID: 880-31668-4

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59350	08/04/23 14:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 17:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59557	08/07/23 16:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-31668-4

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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			59640	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	59359	08/04/23 16:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/08/23 03:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		1			59358	08/05/23 04:25	CH	EET MID

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

Lab Sample ID: 880-31668-5

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59350	08/04/23 14:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 18:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59557	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			59640	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59359	08/04/23 16:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/08/23 04:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		1			59358	08/05/23 04:30	CH	EET MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-31668-6

Date Collected: 07/31/23 00:00

Matrix: Solid

Date Received: 08/03/23 16:09

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	59350	08/04/23 14:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	59296	08/05/23 18:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			59557	08/07/23 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			59640	08/08/23 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	59359	08/04/23 16:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59411	08/08/23 04:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59303	08/04/23 13:22	KS	EET MID
Soluble	Analysis	300.0		5			59358	08/05/23 04:35	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: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	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
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-31668-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-31668-1	H-1 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31668-2	H-2 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31668-3	H-3 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31668-4	H-4 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31668-5	H-5 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09
880-31668-6	H-6 (0-0.5')	Solid	07/31/23 00:00	08/03/23 16:09

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- 1
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- 12
- 13
- 14



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@carmonarresources.com

Project Name	Asio Oils Fed #3 (6.22.23)	Turn Around	Pres. Code
Project Number	2073	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	
Project Location	Eddy County, New Mexico	Due Date	72 Hrs
Sampler's Name	MM		
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:		
Cooler Custody Seals	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor		
Sample Custody Seals	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading		
Total Containers		Corrected Temperature		

Project Name		Asio Oils Fed #3 (6.22.23)		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Project Number	2073	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush											None NO	DI Water H ₂ O																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Project Location	Eddy County, New Mexico	Due Date	72 Hrs											Cool Cool	MeOH Me																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No	Parameters										H ₃ PO ₄ HP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Received In tact:	Yes No	Thermometer ID:				BTEX 8021B										NaHSO ₄ NABIS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Cooler Custody Seals	Yes No	Correction Factor				TPH 8015M (GRO + DRO + MRO)										Na ₂ S ₂ O ₃ NaSO ₃																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Sample Custody Seals:	Yes No	Temperature Reading				Chloride 300.0										Zn Acetate+NaOH Zn																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Total Containers	N/A	Corrected Temperature:														NaOH+Ascorbic Acid SAPC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Sample Identification		Date	Time	Soil	Water	Grab/ Comp	# of Cont											Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
H-1 (0-0.5')		7/31/2023		X		G	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
	6/3/23		6/3/23

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-31668-1
SDG Number: Lea County, New Mexico

Login Number: 31668

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



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

October 17, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: ASIO OTIS FED #3 (6.22.23)

Enclosed are the results of analyses for samples received by the laboratory on 10/13/23 17:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 1 (3.5') (H235615-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (3.5') (H235615-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 3 (3.5') (H235615-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 4 (3.5') (H235615-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 5 (3.5') (H235615-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 6 (3.5') (H235615-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 66.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 7 (1.5') (H235615-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 8 (1.5') (H235615-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 9 (1.5') (H235615-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 10 (1.5') (H235615-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 11 (1.5') (H235615-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 12 (1.5') (H235615-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 13 (1') (H235615-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 14 (1') (H235615-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 15 (1') (H235615-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 69.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 16 (1') (H235615-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 17 (1') (H235615-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
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 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 18 (1') (H235615-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 19 (1') (H235615-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61	
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.6 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 20 (1') (H235615-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	2.12	106	2.00	3.61		
Toluene*	<0.050	0.050	10/16/2023	ND	1.91	95.7	2.00	5.08		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.96	98.0	2.00	5.66		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.85	97.4	6.00	5.34		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	189	94.4	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	234	117	200	32.1	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.6 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 21 (1') (H235615-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590	
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432	
Total BTEx	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 22 (1') (H235615-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 23 (1') (H235615-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 24 (1') (H235615-24)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 25 (1') (H235615-25)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 26 (1') (H235615-26)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590	
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432	
Total BTX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 27 (1') (H235615-27)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 28 (4.5') (H235615-28)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 29 (4.5') (H235615-29)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590	
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 30 (4.5') (H235615-30)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 31 (4.5') (H235615-31)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 32 (4.5') (H235615-32)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590	
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432	
Total BTX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 33 (4.5') (H235615-33)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 34 (4.5') (H235615-34)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 35 (4.5') (H235615-35)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (2.5') (H235615-36)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (3.5') (H235615-37)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590	
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432	
Total BTEx	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (3.5') (H235615-38)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (1.5') (H235615-39)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590		
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432		
Total BTEx	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (1.5') (H235615-40)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.97	98.5	2.00	0.590	
Toluene*	<0.050	0.050	10/16/2023	ND	2.03	102	2.00	1.17	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	2.05	102	2.00	0.980	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	6.20	103	6.00	0.432	
Total BTX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	179	89.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	201	101	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 6 (1.5') (H235615-41)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (1.5') (H235615-42)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 (1') (H235615-43)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9 (1') (H235615-44)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05	
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978	
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97	
Total BTEX	<0.300	0.300	10/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 10 (1') (H235615-45)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 11 (1') (H235615-46)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 12 (1') (H235615-47)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 13 (1') (H235615-48)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 14 (4.5') (H235615-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 15 (4.5') (H235615-50)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received: 10/13/2023
 Reported: 10/17/2023
 Project Name: ASIO OTIS FED #3 (6.22.23)
 Project Number: 2073
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 16 (4.5') (H235615-51)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2023	ND	1.89	94.7	2.00	3.05		
Toluene*	<0.050	0.050	10/16/2023	ND	1.85	92.3	2.00	0.978		
Ethylbenzene*	<0.050	0.050	10/16/2023	ND	1.94	97.1	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/16/2023	ND	5.83	97.1	6.00	1.97		
Total BTEX	<0.300	0.300	10/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2023	ND	186	93.2	200	5.87	
DRO >C10-C28*	<10.0	10.0	10/16/2023	ND	194	97.0	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
A-01	DRO failed marginally high. All samples below RL.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: A235615

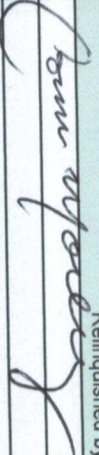
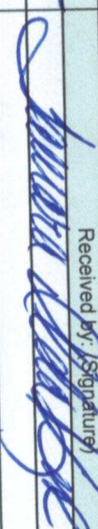
Page 1 of 6

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> JRC <input type="checkbox"/> Iperfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:		Asio Otis Fed #3 (6.22.23)		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	2073	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush <th colspan="2">Due Date: 48 hours<th colspan="12"></th><th>None: NO</th><th>DI Water: H₂O</th></th>	Due Date: 48 hours <th colspan="12"></th> <th>None: NO</th> <th>DI Water: H₂O</th>															None: NO	DI Water: H ₂ O
Project Location	Eddy County, New Mexico																	Cool: Cool	MeOH: Me	
Sampler's Name:	DD/GRJ																	HCL: HC	HNO ₃ : HN	
PO #:																		H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:		Correction Factor:														NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Temperature Reading:		Corrected Temperature:														Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>														Zn Acetate+NaOH: Zn					
Total Containers:	<th>NaOH+Ascorbic Acid: SAPC</th> <td></td>														NaOH+Ascorbic Acid: SAPC					
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments		
CS-1 (3.5')		10/11/2023		X		Comp	1	X	X	X										
CS-2 (3.5')		10/11/2023		X		Comp	1	X	X	X										
CS-3 (3.5')		10/11/2023		X		Comp	1	X	X	X										
CS-4 (3.5')		10/11/2023		X		Comp	1	X	X	X										
CS-5 (3.5')		10/11/2023		X		Comp	1	X	X	X										
CS-6 (3.5')		10/11/2023		X		Comp	1	X	X	X										
CS-7 (1.5')		10/11/2023		X		Comp	1	X	X	X										
CS-8 (1.5')		10/11/2023		X		Comp	1	X	X	X										
CS-9 (1.5')		10/11/2023		X		Comp	1	X	X	X										
CS-10 (1.5')		10/11/2023		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
	10-13-23 1705		

Chain of Custody

Work Order No: H235615

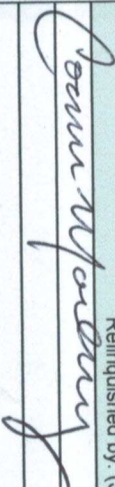
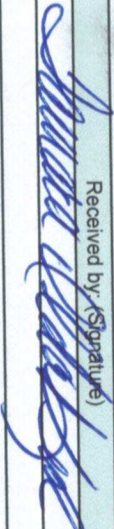
Page 2 of 6

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

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

Project Name:	Asio Otis Fed #3 (6.22.23)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Press. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2073	Due Date:	48 hours														None: NO	DI Water: H ₂ O		
Project Location:	Eddy County, New Mexico																Cool: Cool	MeOH: Me		
Sampler's Name:	DD/GPJ																HCL: HC	HNO ₃ : HN		
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	2.26	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													NaOH+Ascorbic Acid: SAPC			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-11 (1.5')	10/11/2023		X		Comp	1	X	X	X											
CS-12 (1.5')	10/11/2023		X		Comp	1	X	X	X											
CS-13 (1')	10/11/2023		X		Comp	1	X	X	X											
CS-14 (1')	10/11/2023		X		Comp	1	X	X	X											
CS-15 (1')	10/11/2023		X		Comp	1	X	X	X											
CS-16 (1')	10/11/2023		X		Comp	1	X	X	X											
CS-17 (1')	10/11/2023		X		Comp	1	X	X	X											
CS-18 (1')	10/11/2023		X		Comp	1	X	X	X											
CS-19 (1')	10/11/2023		X		Comp	1	X	X	X											
CS-20 (1')	10/11/2023		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
	10-13-23 1:05		

Chain of Custody

Work Order No: H235615

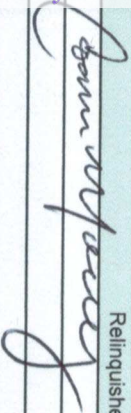
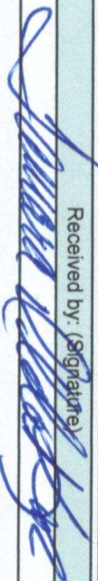
Page 3 of 6

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> IJC <input type="checkbox"/> Iperfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Asio Otis Fed #3 (6.22.23)		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	2073		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush														None: NO	DI Water: H ₂ O			
Project Location:	Eddy County, New Mexico		Due Date:			48 hours												Cool: Cool	MeOH: Me			
Sampler's Name:	DD/GPJ																	HCL: HC	HNO ₃ : HN			
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na				
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters															
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:	140																		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor:	2.22																		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading:	2.22																		
Total Containers:			Corrected Temperature:																			
Sample Identification			Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-21 (1')			10/11/2023		X		Comp	1	X	X	X											
CS-22 (1')			10/11/2023		X		Comp	1	X	X	X											
CS-23 (1')			10/11/2023		X		Comp	1	X	X	X											
CS-24 (1')			10/11/2023		X		Comp	1	X	X	X											
CS-25 (1')			10/11/2023		X		Comp	1	X	X	X											
CS-26 (1')			10/11/2023		X		Comp	1	X	X	X											
CS-27 (1')			10/11/2023		X		Comp	1	X	X	X											
CS-28 (4.5')			10/12/2023		X		Comp	1	X	X	X											
CS-29 (4.5')			10/12/2023		X		Comp	1	X	X	X											
CS-30 (4.5')			10/12/2023		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
		10-13-23 / 1:05			

Chain of Custody

Work Order No: H235615

Page 4 of 6

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> IBC <input type="checkbox"/> Deepfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Asio Otis Fed #3 (6.22.23)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Due Date:	48 hours	Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number:	2073																None: NO	DI Water: H ₂ O
Project Location:	Eddy County, New Mexico																Cool: Cool	MeOH: Me
Sampler's Name:	DD/GPJ																HCL: HC	HNO ₃ : HN
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Parameters											
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:					BTEX 8021B											
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Correction Factor:					TPH 8015M (GRO + DRO + MRO)											
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Temperature Reading:					Chloride 4500											
Total Containers:		Corrected Temperature:																
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
CS-31 (4.5')	10/12/2023		X		Comp	1	X	X	X									
CS-32 (4.5')	10/12/2023		X		Comp	1	X	X	X									
CS-33 (4.5')	10/12/2023		X		Comp	1	X	X	X									
CS-34 (4.5')	10/12/2023		X		Comp	1	X	X	X									
CS-35 (4.5')	10/12/2023		X		Comp	1	X	X	X									
SW-1 (2.5')	10/11/2023		X		Comp	1	X	X	X									
SW-2 (3.5')	10/11/2023		X		Comp	1	X	X	X									
SW-3 (3.5')	10/11/2023		X		Comp	1	X	X	X									
SW-4 (1.5')	10/11/2023		X		Comp	1	X	X	X									
SW-5 (1.5')	10/11/2023		X		Comp	1	X	X	X									

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Commer Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>Commer Moehring</u>	<u>10-13-23 / 1705</u>	<u>MICHAEL R. HARRIS</u>	

Chain of Custody

Work Order No: H235615

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> IJC <input type="checkbox"/> Inland
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:		Asio Otis Fed #3 (6.22.23)		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	2073	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush				None: NO	DI Water: H ₂ O												
Project Location	Eddy County, New Mexico	Due Date:	48 hours													Cool: Cool	MeOH: Me			
Sampler's Name:	DD/GPJ															HCL: HC	HNO ₃ : HN			
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Parameters												H ₃ PO ₄ : HP		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:	148	BTX 8021B												NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:		TPH 8015M (GRO + DRO + MRO)												Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	2.24	Chloride 4500												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-6 (1.5)			10/11/2023		X		Comp	1	X	X	X									
SW-7 (1.5)			10/11/2023		X		Comp	1	X	X	X									
SW-8 (1')			10/11/2023		X		Comp	1	X	X	X									
SW-9 (1')			10/11/2023		X		Comp	1	X	X	X									
SW-10 (1')			10/11/2023		X		Comp	1	X	X	X									
SW-11 (1')			10/11/2023		X		Comp	1	X	X	X									
SW-12 (1')			10/11/2023		X		Comp	1	X	X	X									
SW-13 (1')			10/11/2023		X		Comp	1	X	X	X									
SW-14 (4.5)			10/12/2023		X		Comp	1	X	X	X									
SW-15 (4.5)			10/12/2023		X		Comp	1	X	X	X									
SW-15 (4.5)			10/12/2023		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
	10/13/23 1705		

Chain of Custody

Work Order No:

4235615

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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:	mcarmona@carmonaresources.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Crownfields <input type="checkbox"/> IRC <input type="checkbox"/> perfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10-13-23 1705		



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 5/28/2024 6:18:40 PM

JOB DESCRIPTION

Asio Otis Fed #3 (6.22.23)
Eddy County, New Mexico

JOB NUMBER

880-43855-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

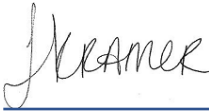
Eurofins Midland

Job Notes

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

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

Authorization



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5/28/2024 6:18:40 PM

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

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Laboratory Job ID: 880-43855-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County,New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1

Job ID: 880-43855-1

Eurofins Midland

Job Narrative 880-43855-1

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

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

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

Receipt

The sample was received on 5/23/2024 3:49 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-81401 and analytical batch 880-81256 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-81539 and analytical batch 880-81573 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-43875-A-1-C), (880-43875-A-1-D MS) and (880-43875-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-81539 and analytical batch 880-81573 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County, New Mexico

Client Sample ID: Backfill Material

Lab Sample ID: 880-43855-1

Date Collected: 05/22/24 00:00

Matrix: Solid

Date Received: 05/23/24 15:49

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198		mg/Kg		05/23/24 16:00	05/23/24 18:36	1
Toluene	<0.00198	U *1	0.00198		mg/Kg		05/23/24 16:00	05/23/24 18:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/24 16:00	05/23/24 18:36	1
m-Xylene & p-Xylene	<0.00396	U *1	0.00396		mg/Kg		05/23/24 16:00	05/23/24 18:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/24 16:00	05/23/24 18:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/23/24 16:00	05/23/24 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/23/24 16:00	05/23/24 18:36	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/23/24 16:00	05/23/24 18:36	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			05/23/24 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/25/24 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/24/24 14:07	05/25/24 14:03	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/24/24 14:07	05/25/24 14:03	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/24/24 14:07	05/25/24 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	05/24/24 14:07	05/25/24 14:03	1
o-Terphenyl	121		70 - 130	05/24/24 14:07	05/25/24 14:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		24.9		mg/Kg			05/24/24 06:30	5

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Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
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)
880-43830-A-1-A MS	Matrix Spike	104	103
880-43830-A-1-B MSD	Matrix Spike Duplicate	97	100
880-43855-1	Backfill Material	88	89
LCS 880-81401/1-A	Lab Control Sample	102	104
LCSD 880-81401/2-A	Lab Control Sample Dup	102	99
MB 880-81401/5-A	Method Blank	88	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-43855-1	Backfill Material	103	121
880-43875-A-1-D MS	Matrix Spike	132 S1+	140 S1+
880-43875-A-1-E MSD	Matrix Spike Duplicate	121	138 S1+
LCS 880-81539/2-A	Lab Control Sample	118	121
LCSD 880-81539/3-A	Lab Control Sample Dup	117	121
MB 880-81539/1-A	Method Blank	141 S1+	181 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-81401/5-A

Matrix: Solid

Analysis Batch: 81256

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 81401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/24 10:14	05/23/24 13:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/24 10:14	05/23/24 13:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/24 10:14	05/23/24 13:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/24 10:14	05/23/24 13:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/24 10:14	05/23/24 13:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/24 10:14	05/23/24 13:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/23/24 10:14	05/23/24 13:41	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/23/24 10:14	05/23/24 13:41	1

Lab Sample ID: LCS 880-81401/1-A

Matrix: Solid

Analysis Batch: 81256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 81401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1209		mg/Kg		121	70 - 130
Toluene	0.100	0.1024		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1057		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-81401/2-A

Matrix: Solid

Analysis Batch: 81256

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 81401

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07648	*1	mg/Kg		76	70 - 130	45	35
Toluene	0.100	0.07015	*1	mg/Kg		70	70 - 130	37	35
Ethylbenzene	0.100	0.07816		mg/Kg		78	70 - 130	34	35
m-Xylene & p-Xylene	0.200	0.1541	*1	mg/Kg		77	70 - 130	36	35
o-Xylene	0.100	0.07640		mg/Kg		76	70 - 130	32	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-43830-A-1-A MS

Matrix: Solid

Analysis Batch: 81256

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 81401

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U *1	0.0996	0.08813		mg/Kg		88	70 - 130
Toluene	<0.00200	U *1	0.0996	0.07899		mg/Kg		79	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-43830-A-1-A MS

Matrix: Solid

Analysis Batch: 81256

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 81401

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.08731		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00399	U *1	0.199	0.1722		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08636		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-43830-A-1-B MSD

Matrix: Solid

Analysis Batch: 81256

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 81401

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U *1	0.101	0.08876		mg/Kg		88	70 - 130	1	35
Toluene	<0.00200	U *1	0.101	0.07921		mg/Kg		79	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.101	0.08862		mg/Kg		88	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U *1	0.202	0.1751		mg/Kg		87	70 - 130	2	35
o-Xylene	<0.00200	U	0.101	0.08627		mg/Kg		86	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-81539/1-A

Matrix: Solid

Analysis Batch: 81573

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 81539

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		05/24/24 14:07	05/25/24 07:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/24/24 14:07	05/25/24 07:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/24/24 14:07	05/25/24 07:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	05/24/24 14:07	05/25/24 07:49	1
o-Terphenyl	181	S1+	70 - 130	05/24/24 14:07	05/25/24 07:49	1

Lab Sample ID: LCS 880-81539/2-A

Matrix: Solid

Analysis Batch: 81573

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 81539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1020		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1119		mg/Kg		112	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-81539/2-A
Matrix: Solid
Analysis Batch: 81573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81539

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-81539/3-A
Matrix: Solid
Analysis Batch: 81573

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1098		mg/Kg		110	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-43875-A-1-D MS
Matrix: Solid
Analysis Batch: 81573

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 81539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1192		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)	90.0	F1	1000	740.6	F1	mg/Kg		65	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	140	S1+	70 - 130

Lab Sample ID: 880-43875-A-1-E MSD
Matrix: Solid
Analysis Batch: 81573

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 81539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1094		mg/Kg		107	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	90.0	F1	1000	706.1	F1	mg/Kg		62	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	138	S1+	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-81477/1-A

Matrix: Solid

Analysis Batch: 81481

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			05/24/24 03:52	1

Lab Sample ID: LCS 880-81477/2-A

Matrix: Solid

Analysis Batch: 81481

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.0		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-81477/3-A

Matrix: Solid

Analysis Batch: 81481

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	254.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-43823-A-24-C MS

Matrix: Solid

Analysis Batch: 81481

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	59.2		252	314.4		mg/Kg		101	90 - 110

Lab Sample ID: 880-43823-A-24-D MSD

Matrix: Solid

Analysis Batch: 81481

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	59.2		252	314.9		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 81256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43855-1	Backfill Material	Total/NA	Solid	8021B	81401
MB 880-81401/5-A	Method Blank	Total/NA	Solid	8021B	81401
LCS 880-81401/1-A	Lab Control Sample	Total/NA	Solid	8021B	81401
LCSD 880-81401/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	81401
880-43830-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	81401
880-43830-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	81401

Prep Batch: 81401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43855-1	Backfill Material	Total/NA	Solid	5035	
MB 880-81401/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-81401/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-81401/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-43830-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-43830-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 81520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43855-1	Backfill Material	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 81539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43855-1	Backfill Material	Total/NA	Solid	8015NM Prep	
MB 880-81539/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-81539/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-81539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-43875-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-43875-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 81573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43855-1	Backfill Material	Total/NA	Solid	8015B NM	81539
MB 880-81539/1-A	Method Blank	Total/NA	Solid	8015B NM	81539
LCS 880-81539/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	81539
LCSD 880-81539/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	81539
880-43875-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	81539
880-43875-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	81539

Analysis Batch: 81720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43855-1	Backfill Material	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 81477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43855-1	Backfill Material	Soluble	Solid	DI Leach	
MB 880-81477/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-81477/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-81477/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County,New Mexico

HPLC/IC (Continued)

Leach Batch: 81477 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43823-A-24-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-43823-A-24-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 81481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43855-1	Backfill Material	Soluble	Solid	300.0	81477
MB 880-81477/1-A	Method Blank	Soluble	Solid	300.0	81477
LCS 880-81477/2-A	Lab Control Sample	Soluble	Solid	300.0	81477
LCSD 880-81477/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	81477
880-43823-A-24-C MS	Matrix Spike	Soluble	Solid	300.0	81477
880-43823-A-24-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	81477

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County,New Mexico

Client Sample ID: Backfill Material
Date Collected: 05/22/24 00:00
Date Received: 05/23/24 15:49

Lab Sample ID: 880-43855-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	81401	05/23/24 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81256	05/23/24 18:36	EL	EET MID
Total/NA	Analysis	Total BTEX		1			81520	05/23/24 18:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			81720	05/25/24 14:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	81539	05/24/24 14:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81573	05/25/24 14:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	81477	05/23/24 16:30	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	81481	05/24/24 06:30	SMC	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: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
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: Asio Otis Fed #3 (6.22.23)

Job ID: 880-43855-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-43855-1	Backfill Material	Solid	05/22/24 00:00	05/23/24 15:49

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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		mcarmona@carmonaresources.com	

Project Name		Asio Otis Fed #3 (6.22.23)		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number		2073		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> 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		IR																				HCL HC HNO ₃ HN	
PO #																						H ₂ SO ₄ H ₂ NaOH Na	
SAMPLE RECEIPT		Temp Blank		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Wet Ice:		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No														H ₃ PO ₄ HP	
Received In tact:		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Thermometer ID																		NaHSO ₄ NABIS	
Cooler Custody Seals		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor																		Na ₂ S ₂ O ₅ NaSO ₃	
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> 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							
Backfill Material		5/22/2024				X				Comp		1		X		X		X															
						</																											

Chain of Custody



880-43855 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	

Work Order Comments							
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDO <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:							

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	5/23/24 1546		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-43855-1

SDG Number: Eddy County, New Mexico

Login Number: 43855

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/13/2024 4:36:21 PM

JOB DESCRIPTION

Asio Otis Fed #3 (6.22.23)
Eddy County, New Mexico

JOB NUMBER

880-52160-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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12/13/2024 4:36:21 PM

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

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Laboratory Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1

Job ID: 880-52160-1

Eurofins Midland

Job Narrative 880-52160-1

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

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

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

Receipt

The samples were received on 12/12/2024 11:30 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 -4.8°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97670 and analytical batch 880-97690 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97670 and analytical batch 880-97690 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The method blank for preparation batch 880-97669 and analytical batch 880-97688 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97669 and analytical batch 880-97688 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-57 (Surface) (880-52160-22), CS-58 (Surface) (880-52160-23) and CS-59 (Surface) (880-52160-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-36 (Surface) (880-52160-1). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-38 (Surface) (880-52160-3). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97819 and analytical batch 880-97844 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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Case Narrative

Client: Carmona Resources
Project: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1

Job ID: 880-52160-1 (Continued) Eurofins Midland

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97735 and analytical batch 880-97759 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-36 (Surface)

Lab Sample ID: 880-52160-1

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 17:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/24 12:54	12/12/24 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 17:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/24 12:54	12/12/24 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	12/12/24 12:54	12/12/24 17:34	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/12/24 12:54	12/12/24 17:34	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			12/12/24 17:34	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			12/12/24 21:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/12/24 13:09	12/12/24 21:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 13:09	12/12/24 21:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 13:09	12/12/24 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130	12/12/24 13:09	12/12/24 21:54	1
o-Terphenyl	54	S1-	70 - 130	12/12/24 13:09	12/12/24 21:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	418		9.92		mg/Kg			12/12/24 20:30	1

Client Sample ID: CS-37 (Surface)

Lab Sample ID: 880-52160-2

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 17:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 17:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 17:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/12/24 12:54	12/12/24 17:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 17:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/12/24 12:54	12/12/24 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	12/12/24 12:54	12/12/24 17:55	1
1,4-Difluorobenzene (Surr)	86		70 - 130	12/12/24 12:54	12/12/24 17:55	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-37 (Surface)

Lab Sample ID: 880-52160-2

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			12/12/24 17:55	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			12/12/24 22:09	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		12/12/24 13:09	12/12/24 22:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/12/24 13:09	12/12/24 22:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/12/24 13:09	12/12/24 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				12/12/24 13:09	12/12/24 22:09	1
o-Terphenyl	77		70 - 130				12/12/24 13:09	12/12/24 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		9.92		mg/Kg			12/12/24 20:36	1

Client Sample ID: CS-38 (Surface)

Lab Sample ID: 880-52160-3

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 18:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/24 12:54	12/12/24 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/24 12:54	12/12/24 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				12/12/24 12:54	12/12/24 18:15	1
1,4-Difluorobenzene (Surr)	82		70 - 130				12/12/24 12:54	12/12/24 18:15	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			12/12/24 18:15	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			12/13/24 14:22	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		12/13/24 09:37	12/13/24 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/13/24 09:37	12/13/24 14:22	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-38 (Surface)

Lab Sample ID: 880-52160-3

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/13/24 09:37	12/13/24 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				12/13/24 09:37	12/13/24 14:22	1
o-Terphenyl	133	S1+	70 - 130				12/13/24 09:37	12/13/24 14:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.7		50.5		mg/Kg			12/12/24 20:41	5

Client Sample ID: CS-39 (Surface)

Lab Sample ID: 880-52160-4

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 18:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 18:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 18:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/12/24 12:54	12/12/24 18:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 18:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/12/24 12:54	12/12/24 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/12/24 12:54	12/12/24 18:36	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/12/24 12:54	12/12/24 18:36	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			12/12/24 18:36	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			12/13/24 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/13/24 09:37	12/13/24 14:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/13/24 09:37	12/13/24 14:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/13/24 09:37	12/13/24 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				12/13/24 09:37	12/13/24 14:36	1
o-Terphenyl	81		70 - 130				12/13/24 09:37	12/13/24 14:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.9		49.8		mg/Kg			12/12/24 20:46	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-40 (Surface)

Lab Sample ID: 880-52160-5

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 18:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 18:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/24 12:54	12/12/24 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 18:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/24 12:54	12/12/24 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/12/24 12:54	12/12/24 18:56	1
1,4-Difluorobenzene (Surr)	86		70 - 130	12/12/24 12:54	12/12/24 18:56	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			12/12/24 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/13/24 00:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/12/24 13:12	12/13/24 00:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/24 13:12	12/13/24 00:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/24 13:12	12/13/24 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	12/12/24 13:12	12/13/24 00:34	1
o-Terphenyl	76		70 - 130	12/12/24 13:12	12/13/24 00:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.2		50.3		mg/Kg			12/12/24 21:28	5

Client Sample ID: CS-41 (Surface)

Lab Sample ID: 880-52160-6

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 19:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/12/24 19:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/12/24 19:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/12/24 12:54	12/12/24 19:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/12/24 19:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/12/24 12:54	12/12/24 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/12/24 12:54	12/12/24 19:17	1
1,4-Difluorobenzene (Surr)	81		70 - 130	12/12/24 12:54	12/12/24 19:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-41 (Surface)

Lab Sample ID: 880-52160-6

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			12/12/24 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/13/24 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/12/24 13:12	12/13/24 01:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/12/24 13:12	12/13/24 01:18	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/12/24 13:12	12/13/24 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/12/24 13:12	12/13/24 01:18	1
o-Terphenyl	80		70 - 130				12/12/24 13:12	12/13/24 01:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		10.0		mg/Kg			12/12/24 21:44	1

Client Sample ID: CS-42 (Surface)

Lab Sample ID: 880-52160-7

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 19:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 19:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 19:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/24 12:54	12/12/24 19:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 19:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/24 12:54	12/12/24 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				12/12/24 12:54	12/12/24 19:37	1
1,4-Difluorobenzene (Surr)	86		70 - 130				12/12/24 12:54	12/12/24 19:37	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			12/12/24 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/13/24 01:32	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		12/12/24 13:12	12/13/24 01:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/13/24 01:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-42 (Surface)

Lab Sample ID: 880-52160-7

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 13:12	12/13/24 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/12/24 13:12	12/13/24 01:32	1
o-Terphenyl	83		70 - 130				12/12/24 13:12	12/13/24 01:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		10.1		mg/Kg			12/12/24 21:49	1

Client Sample ID: CS-43 (Surface)

Lab Sample ID: 880-52160-8

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 19:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/12/24 19:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/12/24 19:58	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/12/24 12:54	12/12/24 19:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/12/24 19:58	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/12/24 12:54	12/12/24 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				12/12/24 12:54	12/12/24 19:58	1
1,4-Difluorobenzene (Surr)	81		70 - 130				12/12/24 12:54	12/12/24 19:58	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			12/12/24 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/13/24 01:48	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		12/12/24 13:12	12/13/24 01:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/13/24 01:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/13/24 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/12/24 13:12	12/13/24 01:48	1
o-Terphenyl	85		70 - 130				12/12/24 13:12	12/13/24 01:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		10.0		mg/Kg			12/12/24 21:55	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-44 (Surface)

Lab Sample ID: 880-52160-9

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 20:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/12/24 12:54	12/12/24 20:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/12/24 12:54	12/12/24 20:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/12/24 12:54	12/12/24 20:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/12/24 12:54	12/12/24 20:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/12/24 12:54	12/12/24 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/12/24 12:54	12/12/24 20:18	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/12/24 12:54	12/12/24 20:18	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			12/12/24 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/13/24 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 02:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 02:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	12/12/24 13:12	12/13/24 02:02	1
o-Terphenyl	79		70 - 130	12/12/24 13:12	12/13/24 02:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	331		9.96		mg/Kg			12/12/24 22:00	1

Client Sample ID: CS-45 (Surface)

Lab Sample ID: 880-52160-10

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 20:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 20:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 20:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/12/24 12:54	12/12/24 20:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 20:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/12/24 12:54	12/12/24 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	12/12/24 12:54	12/12/24 20:39	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/12/24 12:54	12/12/24 20:39	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-45 (Surface)

Lab Sample ID: 880-52160-10

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			12/12/24 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/13/24 02:17	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		12/12/24 13:12	12/13/24 02:17	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/12/24 13:12	12/13/24 02:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/12/24 13:12	12/13/24 02:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				12/12/24 13:12	12/13/24 02:17	1
o-Terphenyl	80		70 - 130				12/12/24 13:12	12/13/24 02:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		9.90		mg/Kg			12/12/24 22:16	1

Client Sample ID: CS-46 (Surface)

Lab Sample ID: 880-52160-11

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 22:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 22:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 22:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/24 12:54	12/12/24 22:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 22:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/24 12:54	12/12/24 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/12/24 12:54	12/12/24 22:03	1
1,4-Difluorobenzene (Surr)	85		70 - 130				12/12/24 12:54	12/12/24 22:03	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			12/12/24 22:03	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			12/13/24 02:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/13/24 02:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/13/24 02:31	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-46 (Surface)

Lab Sample ID: 880-52160-11

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 13:12	12/13/24 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				12/12/24 13:12	12/13/24 02:31	1
o-Terphenyl	87		70 - 130				12/12/24 13:12	12/13/24 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		10.1		mg/Kg			12/12/24 22:21	1

Client Sample ID: CS-47 (Surface)

Lab Sample ID: 880-52160-12

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 22:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 22:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 22:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/24 12:54	12/12/24 22:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 22:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/24 12:54	12/12/24 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				12/12/24 12:54	12/12/24 22:23	1
1,4-Difluorobenzene (Surr)	84		70 - 130				12/12/24 12:54	12/12/24 22:23	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			12/12/24 22:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/13/24 02:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/12/24 13:12	12/13/24 02:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/24 13:12	12/13/24 02:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/24 13:12	12/13/24 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				12/12/24 13:12	12/13/24 02:46	1
o-Terphenyl	79		70 - 130				12/12/24 13:12	12/13/24 02:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	397		9.98		mg/Kg			12/12/24 22:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-48 (Surface)

Lab Sample ID: 880-52160-13

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 22:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 22:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 22:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/24 12:54	12/12/24 22:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/12/24 22:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/24 12:54	12/12/24 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	12/12/24 12:54	12/12/24 22:44	1
1,4-Difluorobenzene (Surr)	79		70 - 130	12/12/24 12:54	12/12/24 22:44	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			12/12/24 22:44	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			12/13/24 03:01	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		12/12/24 13:12	12/13/24 03:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/24 13:12	12/13/24 03:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/24 13:12	12/13/24 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	12/12/24 13:12	12/13/24 03:01	1
o-Terphenyl	84		70 - 130	12/12/24 13:12	12/13/24 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		9.96		mg/Kg			12/12/24 22:32	1

Client Sample ID: CS-49 (Surface)

Lab Sample ID: 880-52160-14

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 23:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 23:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 23:04	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/12/24 12:54	12/12/24 23:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 23:04	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/12/24 12:54	12/12/24 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/12/24 12:54	12/12/24 23:04	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/12/24 12:54	12/12/24 23:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-49 (Surface)

Lab Sample ID: 880-52160-14

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			12/12/24 23:04	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			12/13/24 03:15	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		12/12/24 13:12	12/13/24 03:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 03:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				12/12/24 13:12	12/13/24 03:15	1
o-Terphenyl	80		70 - 130				12/12/24 13:12	12/13/24 03:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		10.1		mg/Kg			12/12/24 22:37	1

Client Sample ID: CS-50 (Surface)

Lab Sample ID: 880-52160-15

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 23:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/12/24 12:54	12/12/24 23:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/12/24 12:54	12/12/24 23:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/12/24 12:54	12/12/24 23:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/12/24 12:54	12/12/24 23:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/12/24 12:54	12/12/24 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				12/12/24 12:54	12/12/24 23:25	1
1,4-Difluorobenzene (Surr)	81		70 - 130				12/12/24 12:54	12/12/24 23:25	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			12/12/24 23:25	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			12/13/24 03:45	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		12/12/24 13:12	12/13/24 03:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 03:45	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-50 (Surface)

Lab Sample ID: 880-52160-15

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 13:12	12/13/24 03:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/12/24 13:12	12/13/24 03:45	1
o-Terphenyl	81		70 - 130				12/12/24 13:12	12/13/24 03:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101	F1	9.96		mg/Kg			12/12/24 22:42	1

Client Sample ID: CS-51 (Surface)

Lab Sample ID: 880-52160-16

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/12/24 23:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 23:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 23:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/12/24 12:54	12/12/24 23:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:54	12/12/24 23:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/12/24 12:54	12/12/24 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				12/12/24 12:54	12/12/24 23:46	1
1,4-Difluorobenzene (Surr)	76		70 - 130				12/12/24 12:54	12/12/24 23:46	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			12/12/24 23:46	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			12/13/24 03:59	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		12/12/24 13:12	12/13/24 03:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/13/24 03:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/13/24 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				12/12/24 13:12	12/13/24 03:59	1
o-Terphenyl	71		70 - 130				12/12/24 13:12	12/13/24 03:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	465		10.0		mg/Kg			12/12/24 22:58	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-52 (Surface)

Lab Sample ID: 880-52160-17

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/13/24 00:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/13/24 00:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/13/24 00:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/12/24 12:54	12/13/24 00:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/13/24 00:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/24 12:54	12/13/24 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/12/24 12:54	12/13/24 00:06	1
1,4-Difluorobenzene (Surr)	89		70 - 130	12/12/24 12:54	12/13/24 00:06	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			12/13/24 00:06	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			12/13/24 04:14	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		12/12/24 13:12	12/13/24 04:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 04:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	12/12/24 13:12	12/13/24 04:14	1
o-Terphenyl	87		70 - 130	12/12/24 13:12	12/13/24 04:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		10.1		mg/Kg			12/12/24 23:03	1

Client Sample ID: CS-53 (Surface)

Lab Sample ID: 880-52160-18

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/13/24 00:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/13/24 00:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/13/24 00:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/24 12:54	12/13/24 00:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:54	12/13/24 00:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/24 12:54	12/13/24 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	12/12/24 12:54	12/13/24 00:27	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/12/24 12:54	12/13/24 00:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-53 (Surface)

Lab Sample ID: 880-52160-18

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			12/13/24 00:27	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			12/13/24 04:28	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		12/12/24 13:12	12/13/24 04:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 04:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				12/12/24 13:12	12/13/24 04:28	1
o-Terphenyl	94		70 - 130				12/12/24 13:12	12/13/24 04:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		10.1		mg/Kg			12/12/24 23:19	1

Client Sample ID: CS-54 (Surface)

Lab Sample ID: 880-52160-19

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/13/24 00:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/13/24 00:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/13/24 00:47	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/12/24 12:54	12/13/24 00:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:54	12/13/24 00:47	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/12/24 12:54	12/13/24 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				12/12/24 12:54	12/13/24 00:47	1
1,4-Difluorobenzene (Surr)	85		70 - 130				12/12/24 12:54	12/13/24 00:47	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			12/13/24 00:47	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		49.9		mg/Kg			12/13/24 04:44	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		12/12/24 13:12	12/13/24 04:44	1
Diesel Range Organics (Over C10-C28)	<49.9		49.9		mg/Kg		12/12/24 13:12	12/13/24 04:44	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-54 (Surface)

Lab Sample ID: 880-52160-19

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 13:12	12/13/24 04:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/12/24 13:12	12/13/24 04:44	1
o-Terphenyl	128		70 - 130				12/12/24 13:12	12/13/24 04:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		9.90		mg/Kg			12/12/24 23:24	1

Client Sample ID: CS-55 (Surface)

Lab Sample ID: 880-52160-20

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:54	12/13/24 01:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/13/24 01:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/13/24 01:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/24 12:54	12/13/24 01:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/13/24 01:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/24 12:54	12/13/24 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				12/12/24 12:54	12/13/24 01:08	1
1,4-Difluorobenzene (Surr)	77		70 - 130				12/12/24 12:54	12/13/24 01:08	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			12/13/24 01:08	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		50.0		mg/Kg			12/13/24 04:57	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		12/12/24 13:12	12/13/24 04:57	1
Diesel Range Organics (Over C10-C28)	<50.0		50.0		mg/Kg		12/12/24 13:12	12/13/24 04:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/13/24 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				12/12/24 13:12	12/13/24 04:57	1
o-Terphenyl	111		70 - 130				12/12/24 13:12	12/13/24 04:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		9.90		mg/Kg			12/12/24 23:30	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-56 (Surface)

Lab Sample ID: 880-52160-21

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:57	12/13/24 00:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/13/24 00:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/13/24 00:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/12/24 12:57	12/13/24 00:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/13/24 00:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/12/24 12:57	12/13/24 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/12/24 12:57	12/13/24 00:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/12/24 12:57	12/13/24 00:53	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			12/13/24 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.9		49.7		mg/Kg			12/13/24 05:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/12/24 13:12	12/13/24 05:13	1
Diesel Range Organics (Over C10-C28)	56.9		49.7		mg/Kg		12/12/24 13:12	12/13/24 05:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/12/24 13:12	12/13/24 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	12/12/24 13:12	12/13/24 05:13	1
o-Terphenyl	123		70 - 130	12/12/24 13:12	12/13/24 05:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		10.1		mg/Kg			12/12/24 23:35	1

Client Sample ID: CS-57 (Surface)

Lab Sample ID: 880-52160-22

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:57	12/13/24 01:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:57	12/13/24 01:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:57	12/13/24 01:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/24 12:57	12/13/24 01:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:57	12/13/24 01:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/24 12:57	12/13/24 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	12/12/24 12:57	12/13/24 01:13	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/12/24 12:57	12/13/24 01:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-57 (Surface)

Lab Sample ID: 880-52160-22

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			12/13/24 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.3		49.8		mg/Kg			12/13/24 05:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 05:27	1
Diesel Range Organics (Over C10-C28)	81.3		49.8		mg/Kg		12/12/24 13:12	12/13/24 05:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				12/12/24 13:12	12/13/24 05:27	1
o-Terphenyl	170	S1+	70 - 130				12/12/24 13:12	12/13/24 05:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		9.98		mg/Kg			12/12/24 23:40	1

Client Sample ID: CS-58 (Surface)

Lab Sample ID: 880-52160-23

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:57	12/13/24 01:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:57	12/13/24 01:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:57	12/13/24 01:34	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		12/12/24 12:57	12/13/24 01:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:57	12/13/24 01:34	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		12/12/24 12:57	12/13/24 01:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				12/12/24 12:57	12/13/24 01:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/12/24 12:57	12/13/24 01:34	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			12/13/24 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	89.4		49.8		mg/Kg			12/13/24 05:41	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		12/12/24 13:12	12/13/24 05:41	1
Diesel Range Organics (Over C10-C28)	89.4		49.8		mg/Kg		12/12/24 13:12	12/13/24 05:41	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-58 (Surface)

Lab Sample ID: 880-52160-23

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 13:12	12/13/24 05:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/12/24 13:12	12/13/24 05:41	1
o-Terphenyl	192	S1+	70 - 130				12/12/24 13:12	12/13/24 05:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		9.96		mg/Kg			12/12/24 23:45	1

Client Sample ID: CS-59 (Surface)

Lab Sample ID: 880-52160-24

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:57	12/13/24 01:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/13/24 01:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/13/24 01:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/24 12:57	12/13/24 01:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/13/24 01:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/24 12:57	12/13/24 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				12/12/24 12:57	12/13/24 01:55	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/12/24 12:57	12/13/24 01:55	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			12/13/24 01:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.0		49.8		mg/Kg			12/13/24 05:57	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		12/12/24 13:12	12/13/24 05:57	1
Diesel Range Organics (Over C10-C28)	54.0		49.8		mg/Kg		12/12/24 13:12	12/13/24 05:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 13:12	12/13/24 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				12/12/24 13:12	12/13/24 05:57	1
o-Terphenyl	149	S1+	70 - 130				12/12/24 13:12	12/13/24 05:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		10.0		mg/Kg			12/12/24 23:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-60 (Surface)

Lab Sample ID: 880-52160-25

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:59	12/12/24 22:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/12/24 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/12/24 22:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/24 12:59	12/12/24 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/12/24 22:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/24 12:59	12/12/24 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/12/24 12:59	12/12/24 22:56	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/12/24 12:59	12/12/24 22:56	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			12/12/24 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/12/24 14:32	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		12/12/24 08:17	12/12/24 14:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 08:17	12/12/24 14:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 08:17	12/12/24 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	12/12/24 08:17	12/12/24 14:32	1
o-Terphenyl	78		70 - 130	12/12/24 08:17	12/12/24 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		9.98		mg/Kg			12/12/24 23:16	1

Client Sample ID: CS-61 (Surface)

Lab Sample ID: 880-52160-26

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:59	12/12/24 23:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:59	12/12/24 23:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:59	12/12/24 23:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/12/24 12:59	12/12/24 23:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:59	12/12/24 23:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/12/24 12:59	12/12/24 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	12/12/24 12:59	12/12/24 23:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/12/24 12:59	12/12/24 23:16	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-61 (Surface)

Lab Sample ID: 880-52160-26

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			12/12/24 23:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/12/24 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/12/24 08:17	12/12/24 14:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/12/24 08:17	12/12/24 14:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/12/24 08:17	12/12/24 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/12/24 08:17	12/12/24 14:46	1
o-Terphenyl	92		70 - 130				12/12/24 08:17	12/12/24 14:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		9.96		mg/Kg			12/12/24 23:22	1

Client Sample ID: CS-62 (Surface)

Lab Sample ID: 880-52160-27

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:59	12/12/24 23:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:59	12/12/24 23:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:59	12/12/24 23:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/12/24 12:59	12/12/24 23:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/12/24 12:59	12/12/24 23:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/12/24 12:59	12/12/24 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/12/24 12:59	12/12/24 23:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130				12/12/24 12:59	12/12/24 23:37	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			12/12/24 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/12/24 15:01	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		12/12/24 08:17	12/12/24 15:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 08:17	12/12/24 15:01	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-62 (Surface)

Lab Sample ID: 880-52160-27

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 08:17	12/12/24 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/12/24 08:17	12/12/24 15:01	1
o-Terphenyl	81		70 - 130				12/12/24 08:17	12/12/24 15:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		10.1		mg/Kg			12/12/24 23:28	1

Client Sample ID: CS-63 (Surface)

Lab Sample ID: 880-52160-28

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:59	12/12/24 23:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:59	12/12/24 23:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:59	12/12/24 23:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/12/24 12:59	12/12/24 23:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/24 12:59	12/12/24 23:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/12/24 12:59	12/12/24 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				12/12/24 12:59	12/12/24 23:57	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/12/24 12:59	12/12/24 23:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/12/24 23:57	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			12/12/24 14:32	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		12/12/24 08:20	12/12/24 14:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/12/24 08:20	12/12/24 14:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/12/24 08:20	12/12/24 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/12/24 08:20	12/12/24 14:32	1
o-Terphenyl	88		70 - 130				12/12/24 08:20	12/12/24 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		9.96		mg/Kg			12/12/24 23:34	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-64 (Surface)

Lab Sample ID: 880-52160-29

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:59	12/13/24 00:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/13/24 00:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/13/24 00:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/12/24 12:59	12/13/24 00:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/13/24 00:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/12/24 12:59	12/13/24 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/12/24 12:59	12/13/24 00:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/12/24 12:59	12/13/24 00:17	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			12/13/24 00:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/12/24 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/12/24 08:20	12/12/24 14:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/12/24 08:20	12/12/24 14:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/12/24 08:20	12/12/24 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	12/12/24 08:20	12/12/24 14:46	1
o-Terphenyl	98		70 - 130	12/12/24 08:20	12/12/24 14:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		10.0		mg/Kg			12/12/24 23:52	1

Client Sample ID: CS-65 (Surface)

Lab Sample ID: 880-52160-30

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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		12/12/24 12:59	12/13/24 00:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:59	12/13/24 00:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:59	12/13/24 00:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/12/24 12:59	12/13/24 00:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/12/24 12:59	12/13/24 00:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/12/24 12:59	12/13/24 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	12/12/24 12:59	12/13/24 00:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/12/24 12:59	12/13/24 00:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-65 (Surface)

Lab Sample ID: 880-52160-30

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			12/13/24 00:38	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			12/12/24 15:01	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		12/12/24 08:20	12/12/24 15:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 08:20	12/12/24 15:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 08:20	12/12/24 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	12/12/24 08:20	12/12/24 15:01	1
o-Terphenyl	96		70 - 130	12/12/24 08:20	12/12/24 15:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		10.1		mg/Kg			12/12/24 23:58	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-52158-A-1-B MS	Matrix Spike	102	102
880-52158-A-1-C MSD	Matrix Spike Duplicate	103	103
880-52160-1	CS-36 (Surface)	91	87
880-52160-1 MS	CS-36 (Surface)	105	103
880-52160-1 MSD	CS-36 (Surface)	105	106
880-52160-2	CS-37 (Surface)	93	86
880-52160-3	CS-38 (Surface)	95	82
880-52160-4	CS-39 (Surface)	94	89
880-52160-5	CS-40 (Surface)	94	86
880-52160-6	CS-41 (Surface)	97	81
880-52160-7	CS-42 (Surface)	96	86
880-52160-8	CS-43 (Surface)	92	81
880-52160-9	CS-44 (Surface)	95	83
880-52160-10	CS-45 (Surface)	98	83
880-52160-11	CS-46 (Surface)	94	85
880-52160-12	CS-47 (Surface)	98	84
880-52160-13	CS-48 (Surface)	91	79
880-52160-14	CS-49 (Surface)	95	85
880-52160-15	CS-50 (Surface)	96	81
880-52160-16	CS-51 (Surface)	95	76
880-52160-17	CS-52 (Surface)	96	89
880-52160-18	CS-53 (Surface)	93	84
880-52160-19	CS-54 (Surface)	94	85
880-52160-20	CS-55 (Surface)	92	77
880-52160-21	CS-56 (Surface)	96	102
880-52160-22	CS-57 (Surface)	98	99
880-52160-23	CS-58 (Surface)	100	99
880-52160-24	CS-59 (Surface)	99	102
880-52160-25	CS-60 (Surface)	127	95
880-52160-25 MS	CS-60 (Surface)	121	94
880-52160-25 MSD	CS-60 (Surface)	116	94
880-52160-26	CS-61 (Surface)	130	97
880-52160-27	CS-62 (Surface)	124	94
880-52160-28	CS-63 (Surface)	127	95
880-52160-29	CS-64 (Surface)	127	93
880-52160-30	CS-65 (Surface)	128	93
LCS 880-97734/1-A	Lab Control Sample	104	109
LCS 880-97736/1-A	Lab Control Sample	100	103
LCS 880-97737/1-A	Lab Control Sample	124	98
LCSD 880-97734/2-A	Lab Control Sample Dup	104	106
LCSD 880-97736/2-A	Lab Control Sample Dup	98	100
LCSD 880-97737/2-A	Lab Control Sample Dup	122	92
MB 880-97671/5-A	Method Blank	110	97
MB 880-97734/5-A	Method Blank	81	90
MB 880-97736/5-A	Method Blank	90	93
MB 880-97737/5-A	Method Blank	123	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-52159-A-4-F MS	Matrix Spike	92	82
880-52159-A-4-G MSD	Matrix Spike Duplicate	94	83
880-52160-1	CS-36 (Surface)	52 S1-	54 S1-
880-52160-2	CS-37 (Surface)	74	77
880-52160-3	CS-38 (Surface)	148 S1+	133 S1+
880-52160-4	CS-39 (Surface)	92	81
880-52160-5	CS-40 (Surface)	86	76
880-52160-5 MS	CS-40 (Surface)	102	82
880-52160-5 MSD	CS-40 (Surface)	103	82
880-52160-6	CS-41 (Surface)	93	80
880-52160-7	CS-42 (Surface)	93	83
880-52160-8	CS-43 (Surface)	95	85
880-52160-9	CS-44 (Surface)	89	79
880-52160-10	CS-45 (Surface)	89	80
880-52160-11	CS-46 (Surface)	98	87
880-52160-12	CS-47 (Surface)	89	79
880-52160-13	CS-48 (Surface)	95	84
880-52160-14	CS-49 (Surface)	90	80
880-52160-15	CS-50 (Surface)	93	81
880-52160-16	CS-51 (Surface)	79	71
880-52160-17	CS-52 (Surface)	98	87
880-52160-18	CS-53 (Surface)	102	94
880-52160-19	CS-54 (Surface)	103	128
880-52160-20	CS-55 (Surface)	111	111
880-52160-21	CS-56 (Surface)	73	123
880-52160-22	CS-57 (Surface)	104	170 S1+
880-52160-23	CS-58 (Surface)	103	192 S1+
880-52160-24	CS-59 (Surface)	102	149 S1+
880-52160-25	CS-60 (Surface)	86	78
880-52160-26	CS-61 (Surface)	103	92
880-52160-27	CS-62 (Surface)	91	81
880-52160-28	CS-63 (Surface)	86	88
880-52160-29	CS-64 (Surface)	97	98
880-52160-30	CS-65 (Surface)	97	96
890-7454-A-1-E MS	Matrix Spike	104	89
890-7454-A-1-F MSD	Matrix Spike Duplicate	104	88
890-7455-A-5-E MS	Matrix Spike	95	85
890-7455-A-5-F MSD	Matrix Spike Duplicate	84	75
890-7466-A-1-F MS	Matrix Spike	91	71
890-7466-A-1-G MSD	Matrix Spike Duplicate	92	73
LCS 880-97669/2-A	Lab Control Sample	119	97
LCS 880-97670/2-A	Lab Control Sample	108	99
LCS 880-97740/2-A	Lab Control Sample	109	99
LCS 880-97741/2-A	Lab Control Sample	111	88
LCS 880-97819/2-A	Lab Control Sample	121	103
LCSD 880-97669/3-A	Lab Control Sample Dup	116	93
LCSD 880-97670/3-A	Lab Control Sample Dup	92	82
LCSD 880-97740/3-A	Lab Control Sample Dup	106	93
LCSD 880-97741/3-A	Lab Control Sample Dup	102	81

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-52160-1

Project/Site: Asio Otis Fed #3 (6.22.23)

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)
LCSD 880-97819/3-A	Lab Control Sample Dup	117	95
MB 880-97669/1-A	Method Blank	88	79
MB 880-97670/1-A	Method Blank	89	92
MB 880-97740/1-A	Method Blank	80	81
MB 880-97741/1-A	Method Blank	85	76
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97671/5-A

Matrix: Solid

Analysis Batch: 97674

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/24 08:29	12/12/24 11:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 08:29	12/12/24 11:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 08:29	12/12/24 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/24 08:29	12/12/24 11:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 08:29	12/12/24 11:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/24 08:29	12/12/24 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	12/12/24 08:29	12/12/24 11:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/12/24 08:29	12/12/24 11:37	1

Lab Sample ID: MB 880-97734/5-A

Matrix: Solid

Analysis Batch: 97761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 17:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 17:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 17:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/24 12:54	12/12/24 17:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:54	12/12/24 17:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/24 12:54	12/12/24 17:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	12/12/24 12:54	12/12/24 17:13	1
1,4-Difluorobenzene (Surr)	90		70 - 130	12/12/24 12:54	12/12/24 17:13	1

Lab Sample ID: LCS 880-97734/1-A

Matrix: Solid

Analysis Batch: 97761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	0.100	0.09935		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2040		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-97734/2-A

Matrix: Solid

Analysis Batch: 97761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1039		mg/Kg		104	70 - 130	1	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-97734/2-A

Matrix: Solid

Analysis Batch: 97761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.1064		mg/Kg		106	70 - 130	7		35
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130	3		35
m-Xylene & p-Xylene	0.200	0.2081		mg/Kg		104	70 - 130	2		35
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	2		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-52160-1 MS

Matrix: Solid

Analysis Batch: 97761

Client Sample ID: CS-36 (Surface)

Prep Type: Total/NA

Prep Batch: 97734

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00200	U	0.101	0.09635		mg/Kg		96	70 - 130	
Toluene	<0.00200	U	0.101	0.09329		mg/Kg		93	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.08936		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1806		mg/Kg		90	70 - 130	
o-Xylene	<0.00200	U	0.101	0.08800		mg/Kg		87	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-52160-1 MSD

Matrix: Solid

Analysis Batch: 97761

Client Sample ID: CS-36 (Surface)

Prep Type: Total/NA

Prep Batch: 97734

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00200	U	0.0998	0.09989		mg/Kg		100	70 - 130	4
Toluene	<0.00200	U	0.0998	0.09171		mg/Kg		92	70 - 130	2
Ethylbenzene	<0.00200	U	0.0998	0.09025		mg/Kg		90	70 - 130	1
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1728		mg/Kg		87	70 - 130	4
o-Xylene	<0.00200	U	0.0998	0.08474		mg/Kg		85	70 - 130	4

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-97736/5-A

Matrix: Solid

Analysis Batch: 97763

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97736

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/12/24 17:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/12/24 17:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/12/24 17:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/24 12:57	12/12/24 17:50	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-97736/5-A

Matrix: Solid

Analysis Batch: 97763

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:57	12/12/24 17:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/24 12:57	12/12/24 17:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				12/12/24 12:57	12/12/24 17:50	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/12/24 12:57	12/12/24 17:50	1

Lab Sample ID: LCS 880-97736/1-A

Matrix: Solid

Analysis Batch: 97763

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1142		mg/Kg		114	70 - 130
Toluene	0.100	0.1088		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1034		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1119		mg/Kg		112	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		70 - 130				
1,4-Difluorobenzene (Surr)	103		70 - 130				

Lab Sample ID: LCSD 880-97736/2-A

Matrix: Solid

Analysis Batch: 97763

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97736

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1162		mg/Kg		116	70 - 130	2	35
Toluene	0.100	0.1124		mg/Kg		112	70 - 130	3	35
Ethylbenzene	0.100	0.1073		mg/Kg		107	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2058		mg/Kg		103	70 - 130	3	35
o-Xylene	0.100	0.1152		mg/Kg		115	70 - 130	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-52158-A-1-B MS

Matrix: Solid

Analysis Batch: 97763

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97736

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.101	0.1065		mg/Kg		106	70 - 130
Toluene	<0.00200	U	0.101	0.09823		mg/Kg		97	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.09123		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1731		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.101	0.09501		mg/Kg		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-52158-A-1-B MS

Matrix: Solid

Analysis Batch: 97763

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97736

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

Lab Sample ID: 880-52158-A-1-C MSD

Matrix: Solid

Analysis Batch: 97763

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97736

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.1106		mg/Kg		111	70 - 130	4	35
Toluene	<0.00200	U	0.0998	0.1015		mg/Kg		102	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0998	0.09755		mg/Kg		98	70 - 130	7	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1866		mg/Kg		93	70 - 130	8	35
o-Xylene	<0.00200	U	0.0998	0.1033		mg/Kg		103	70 - 130	8	35

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

Lab Sample ID: MB 880-97737/5-A

Matrix: Solid

Analysis Batch: 97674

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/12/24 22:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/12/24 22:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/12/24 22:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/24 12:59	12/12/24 22:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/24 12:59	12/12/24 22:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/24 12:59	12/12/24 22:34	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/12/24 12:59	12/12/24 22:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/12/24 12:59	12/12/24 22:34	1

Lab Sample ID: LCS 880-97737/1-A

Matrix: Solid

Analysis Batch: 97674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1252		mg/Kg		125	70 - 130
Toluene	0.100	0.1173		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1111		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2355		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-97737/1-A
Matrix: Solid
Analysis Batch: 97674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97737

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

Lab Sample ID: LCSD 880-97737/2-A
Matrix: Solid
Analysis Batch: 97674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97737

			Spike	LCSD	LCSD				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1194		mg/Kg		119	70 - 130	5	35
Toluene			0.100	0.1127		mg/Kg		113	70 - 130	4	35
Ethylbenzene			0.100	0.1035		mg/Kg		103	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2201		mg/Kg		110	70 - 130	7	35
o-Xylene			0.100	0.1110		mg/Kg		111	70 - 130	3	35

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

Lab Sample ID: 880-52160-25 MS
Matrix: Solid
Analysis Batch: 97674

Client Sample ID: CS-60 (Surface)
Prep Type: Total/NA
Prep Batch: 97737

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.101	0.1025		mg/Kg		102	70 - 130		
Toluene	<0.00200	U	0.101	0.09244		mg/Kg		92	70 - 130		
Ethylbenzene	<0.00200	U	0.101	0.08408		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1780		mg/Kg		88	70 - 130		
o-Xylene	<0.00200	U	0.101	0.08911		mg/Kg		88	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-52160-25 MSD
Matrix: Solid
Analysis Batch: 97674

Client Sample ID: CS-60 (Surface)
Prep Type: Total/NA
Prep Batch: 97737

	Sample	Sample	Spike	MSD	MSD				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.09690		mg/Kg		97	70 - 130	6	35
Toluene	<0.00200	U	0.0998	0.08581		mg/Kg		86	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.0998	0.07706		mg/Kg		77	70 - 130	9	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1631		mg/Kg		82	70 - 130	9	35
o-Xylene	<0.00200	U	0.0998	0.08235		mg/Kg		83	70 - 130	8	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-97669/1-A

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97669

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		12/12/24 08:17	12/12/24 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 08:17	12/12/24 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 08:17	12/12/24 09:28	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				12/12/24 08:17	12/12/24 09:28	1
o-Terphenyl	79		70 - 130				12/12/24 08:17	12/12/24 09:28	1

Lab Sample ID: LCS 880-97669/2-A

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1179		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	1000	928.2		mg/Kg		93	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	119		70 - 130				
o-Terphenyl	97		70 - 130				

Lab Sample ID: LCSD 880-97669/3-A

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97669

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1179		mg/Kg		118	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	895.4		mg/Kg		90	70 - 130	4	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	93		70 - 130						

Lab Sample ID: 890-7454-A-1-E MS

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	141		997	1026		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	580	F1	997	1250	F1	mg/Kg		67	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-7454-A-1-E MS

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97669

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 890-7454-A-1-F MSD

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97669

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	141		997	1031		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	580	F1	997	1234	F1	mg/Kg		66	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: MB 880-97670/1-A

Matrix: Solid

Analysis Batch: 97690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97670

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		12/12/24 08:20	12/12/24 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 08:20	12/12/24 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 08:20	12/12/24 09:28	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	89		70 - 130	12/12/24 08:20	12/12/24 09:28	1			
o-Terphenyl	92		70 - 130	12/12/24 08:20	12/12/24 09:28	1			

Lab Sample ID: LCS 880-97670/2-A

Matrix: Solid

Analysis Batch: 97690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	923.9		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	942.9		mg/Kg		94	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	99		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-97670/3-A

Matrix: Solid

Analysis Batch: 97690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97670

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	812.9		mg/Kg		81	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	804.0		mg/Kg		80	70 - 130	16	20
		LCSD	LCSD						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	92		70 - 130						
o-Terphenyl	82		70 - 130						

Lab Sample ID: 890-7455-A-5-E MS

Matrix: Solid

Analysis Batch: 97690

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 97670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	786.4		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	693.5	F1	mg/Kg		69	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	85		70 - 130								

Lab Sample ID: 890-7455-A-5-F MSD

Matrix: Solid

Analysis Batch: 97690

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	695.7		mg/Kg		70	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	607.2	F1	mg/Kg		61	70 - 130	13	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	75		70 - 130								

Lab Sample ID: MB 880-97740/1-A

Matrix: Solid

Analysis Batch: 97690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97740

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		12/12/24 13:09	12/12/24 16:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 13:09	12/12/24 16:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 13:09	12/12/24 16:28	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-97740/1-A
Matrix: Solid
Analysis Batch: 97690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97740

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	12/12/24 13:09	12/12/24 16:28	1
o-Terphenyl	81		70 - 130	12/12/24 13:09	12/12/24 16:28	1

Lab Sample ID: LCS 880-97740/2-A
Matrix: Solid
Analysis Batch: 97690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97740

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	924.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	952.4		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-97740/3-A
Matrix: Solid
Analysis Batch: 97690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97740

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	928.4		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	906.8		mg/Kg		91	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 880-52159-A-4-F MS
Matrix: Solid
Analysis Batch: 97690

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97740

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	994	812.6		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	994	712.0		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	82		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-52159-A-4-G MSD

Matrix: Solid

Analysis Batch: 97690

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 97740

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	994	828.2		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	994	740.6		mg/Kg		75	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: MB 880-97741/1-A

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97741

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		12/12/24 13:12	12/12/24 23:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/12/24 23:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/12/24 13:12	12/12/24 23:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				12/12/24 13:12	12/12/24 23:50	1
o-Terphenyl	76		70 - 130				12/12/24 13:12	12/12/24 23:50	1

Lab Sample ID: LCS 880-97741/2-A

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1194		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	884.4		mg/Kg		88	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: LCSD 880-97741/3-A

Matrix: Solid

Analysis Batch: 97688

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97741

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	774.6		mg/Kg		77	70 - 130	13	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-97741/3-A
Matrix: Solid
Analysis Batch: 97688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97741

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-52160-5 MS
Matrix: Solid
Analysis Batch: 97688

Client Sample ID: CS-40 (Surface)
Prep Type: Total/NA
Prep Batch: 97741

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	994	932.2		mg/Kg		94	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	994	705.1		mg/Kg		71	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	102		70 - 130							
o-Terphenyl	82		70 - 130							

Lab Sample ID: 880-52160-5 MSD
Matrix: Solid
Analysis Batch: 97688

Client Sample ID: CS-40 (Surface)
Prep Type: Total/NA
Prep Batch: 97741

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	994	933.7		mg/Kg		94	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	994	707.0		mg/Kg		71	70 - 130	0	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	103		70 - 130									
o-Terphenyl	82		70 - 130									

Lab Sample ID: LCS 880-97819/2-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97819

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1143		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	966.1		mg/Kg		97	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	121		70 - 130							
o-Terphenyl	103		70 - 130							

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-97819/3-A
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97819

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1193		mg/Kg		119	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	904.1		mg/Kg		90	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	117		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: 890-7466-A-1-F MS
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97819

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	899.3		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	660.4	F1	mg/Kg		64	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	71		70 - 130								

Lab Sample ID: 890-7466-A-1-G MSD
Matrix: Solid
Analysis Batch: 97844

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97819

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	907.6		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	666.1	F1	mg/Kg		65	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	73		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97733/1-A
Matrix: Solid
Analysis Batch: 97756

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/12/24 18:08	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-97733/2-A

Matrix: Solid

Analysis Batch: 97756

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.0		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-97733/3-A

Matrix: Solid

Analysis Batch: 97756

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	241.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-52159-A-14-C MS

Matrix: Solid

Analysis Batch: 97756

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	22.1		250	276.2		mg/Kg		102	90 - 110

Lab Sample ID: 880-52159-A-14-D MSD

Matrix: Solid

Analysis Batch: 97756

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	22.1		250	277.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-97735/1-A

Matrix: Solid

Analysis Batch: 97759

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/12/24 21:13	1

Lab Sample ID: LCS 880-97735/2-A

Matrix: Solid

Analysis Batch: 97759

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.8		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-97735/3-A

Matrix: Solid

Analysis Batch: 97759

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	242.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-52160-5 MS

Matrix: Solid

Analysis Batch: 97759

Client Sample ID: CS-40 (Surface)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	942		1260	2192		mg/Kg		99	90 - 110

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QC Sample Results

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-52160-5 MSD

Matrix: Solid

Analysis Batch: 97759

Client Sample ID: CS-40 (Surface)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	942		1260	2192		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-52160-15 MS

Matrix: Solid

Analysis Batch: 97759

Client Sample ID: CS-50 (Surface)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	101	F1	249	431.6	F1	mg/Kg		133	90 - 110		

Lab Sample ID: 880-52160-15 MSD

Matrix: Solid

Analysis Batch: 97759

Client Sample ID: CS-50 (Surface)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	101	F1	249	431.5	F1	mg/Kg		133	90 - 110	0	20

Lab Sample ID: MB 880-97739/1-A

Matrix: Solid

Analysis Batch: 97765

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/12/24 21:54	1

Lab Sample ID: LCS 880-97739/2-A

Matrix: Solid

Analysis Batch: 97765

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	258.7		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-97739/3-A

Matrix: Solid

Analysis Batch: 97765

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	259.0		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-52160-28 MS

Matrix: Solid

Analysis Batch: 97765

Client Sample ID: CS-63 (Surface)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	150		249	420.3		mg/Kg		108	90 - 110		

Lab Sample ID: 880-52160-28 MSD

Matrix: Solid

Analysis Batch: 97765

Client Sample ID: CS-63 (Surface)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	150		249	420.6		mg/Kg		109	90 - 110	0	20

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QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 97671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-97671/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 97674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-25	CS-60 (Surface)	Total/NA	Solid	8021B	97737
880-52160-26	CS-61 (Surface)	Total/NA	Solid	8021B	97737
880-52160-27	CS-62 (Surface)	Total/NA	Solid	8021B	97737
880-52160-28	CS-63 (Surface)	Total/NA	Solid	8021B	97737
880-52160-29	CS-64 (Surface)	Total/NA	Solid	8021B	97737
880-52160-30	CS-65 (Surface)	Total/NA	Solid	8021B	97737
MB 880-97671/5-A	Method Blank	Total/NA	Solid	8021B	97671
MB 880-97737/5-A	Method Blank	Total/NA	Solid	8021B	97737
LCS 880-97737/1-A	Lab Control Sample	Total/NA	Solid	8021B	97737
LCSD 880-97737/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97737
880-52160-25 MS	CS-60 (Surface)	Total/NA	Solid	8021B	97737
880-52160-25 MSD	CS-60 (Surface)	Total/NA	Solid	8021B	97737

Prep Batch: 97734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-1	CS-36 (Surface)	Total/NA	Solid	5035	
880-52160-2	CS-37 (Surface)	Total/NA	Solid	5035	
880-52160-3	CS-38 (Surface)	Total/NA	Solid	5035	
880-52160-4	CS-39 (Surface)	Total/NA	Solid	5035	
880-52160-5	CS-40 (Surface)	Total/NA	Solid	5035	
880-52160-6	CS-41 (Surface)	Total/NA	Solid	5035	
880-52160-7	CS-42 (Surface)	Total/NA	Solid	5035	
880-52160-8	CS-43 (Surface)	Total/NA	Solid	5035	
880-52160-9	CS-44 (Surface)	Total/NA	Solid	5035	
880-52160-10	CS-45 (Surface)	Total/NA	Solid	5035	
880-52160-11	CS-46 (Surface)	Total/NA	Solid	5035	
880-52160-12	CS-47 (Surface)	Total/NA	Solid	5035	
880-52160-13	CS-48 (Surface)	Total/NA	Solid	5035	
880-52160-14	CS-49 (Surface)	Total/NA	Solid	5035	
880-52160-15	CS-50 (Surface)	Total/NA	Solid	5035	
880-52160-16	CS-51 (Surface)	Total/NA	Solid	5035	
880-52160-17	CS-52 (Surface)	Total/NA	Solid	5035	
880-52160-18	CS-53 (Surface)	Total/NA	Solid	5035	
880-52160-19	CS-54 (Surface)	Total/NA	Solid	5035	
880-52160-20	CS-55 (Surface)	Total/NA	Solid	5035	
MB 880-97734/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97734/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97734/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52160-1 MS	CS-36 (Surface)	Total/NA	Solid	5035	
880-52160-1 MSD	CS-36 (Surface)	Total/NA	Solid	5035	

Prep Batch: 97736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-21	CS-56 (Surface)	Total/NA	Solid	5035	
880-52160-22	CS-57 (Surface)	Total/NA	Solid	5035	
880-52160-23	CS-58 (Surface)	Total/NA	Solid	5035	
880-52160-24	CS-59 (Surface)	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Prep Batch: 97736 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-97736/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97736/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52158-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-52158-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 97737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-25	CS-60 (Surface)	Total/NA	Solid	5035	
880-52160-26	CS-61 (Surface)	Total/NA	Solid	5035	
880-52160-27	CS-62 (Surface)	Total/NA	Solid	5035	
880-52160-28	CS-63 (Surface)	Total/NA	Solid	5035	
880-52160-29	CS-64 (Surface)	Total/NA	Solid	5035	
880-52160-30	CS-65 (Surface)	Total/NA	Solid	5035	
MB 880-97737/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97737/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97737/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52160-25 MS	CS-60 (Surface)	Total/NA	Solid	5035	
880-52160-25 MSD	CS-60 (Surface)	Total/NA	Solid	5035	

Analysis Batch: 97761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-1	CS-36 (Surface)	Total/NA	Solid	8021B	97734
880-52160-2	CS-37 (Surface)	Total/NA	Solid	8021B	97734
880-52160-3	CS-38 (Surface)	Total/NA	Solid	8021B	97734
880-52160-4	CS-39 (Surface)	Total/NA	Solid	8021B	97734
880-52160-5	CS-40 (Surface)	Total/NA	Solid	8021B	97734
880-52160-6	CS-41 (Surface)	Total/NA	Solid	8021B	97734
880-52160-7	CS-42 (Surface)	Total/NA	Solid	8021B	97734
880-52160-8	CS-43 (Surface)	Total/NA	Solid	8021B	97734
880-52160-9	CS-44 (Surface)	Total/NA	Solid	8021B	97734
880-52160-10	CS-45 (Surface)	Total/NA	Solid	8021B	97734
880-52160-11	CS-46 (Surface)	Total/NA	Solid	8021B	97734
880-52160-12	CS-47 (Surface)	Total/NA	Solid	8021B	97734
880-52160-13	CS-48 (Surface)	Total/NA	Solid	8021B	97734
880-52160-14	CS-49 (Surface)	Total/NA	Solid	8021B	97734
880-52160-15	CS-50 (Surface)	Total/NA	Solid	8021B	97734
880-52160-16	CS-51 (Surface)	Total/NA	Solid	8021B	97734
880-52160-17	CS-52 (Surface)	Total/NA	Solid	8021B	97734
880-52160-18	CS-53 (Surface)	Total/NA	Solid	8021B	97734
880-52160-19	CS-54 (Surface)	Total/NA	Solid	8021B	97734
880-52160-20	CS-55 (Surface)	Total/NA	Solid	8021B	97734
MB 880-97734/5-A	Method Blank	Total/NA	Solid	8021B	97734
LCS 880-97734/1-A	Lab Control Sample	Total/NA	Solid	8021B	97734
LCSD 880-97734/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97734
880-52160-1 MS	CS-36 (Surface)	Total/NA	Solid	8021B	97734
880-52160-1 MSD	CS-36 (Surface)	Total/NA	Solid	8021B	97734

Analysis Batch: 97763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-21	CS-56 (Surface)	Total/NA	Solid	8021B	97736

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QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 97763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-22	CS-57 (Surface)	Total/NA	Solid	8021B	97736
880-52160-23	CS-58 (Surface)	Total/NA	Solid	8021B	97736
880-52160-24	CS-59 (Surface)	Total/NA	Solid	8021B	97736
MB 880-97736/5-A	Method Blank	Total/NA	Solid	8021B	97736
LCS 880-97736/1-A	Lab Control Sample	Total/NA	Solid	8021B	97736
LCSD 880-97736/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97736
880-52158-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	97736
880-52158-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97736

Analysis Batch: 97798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-1	CS-36 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-2	CS-37 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-3	CS-38 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-4	CS-39 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-5	CS-40 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-6	CS-41 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-7	CS-42 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-8	CS-43 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-9	CS-44 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-10	CS-45 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-11	CS-46 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-12	CS-47 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-13	CS-48 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-14	CS-49 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-15	CS-50 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-16	CS-51 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-17	CS-52 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-18	CS-53 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-19	CS-54 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-20	CS-55 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-21	CS-56 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-22	CS-57 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-23	CS-58 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-24	CS-59 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-25	CS-60 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-26	CS-61 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-27	CS-62 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-28	CS-63 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-29	CS-64 (Surface)	Total/NA	Solid	Total BTEX	
880-52160-30	CS-65 (Surface)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-25	CS-60 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-26	CS-61 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-27	CS-62 (Surface)	Total/NA	Solid	8015NM Prep	
MB 880-97669/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97669/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 97669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-97669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7454-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7454-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 97670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-28	CS-63 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-29	CS-64 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-30	CS-65 (Surface)	Total/NA	Solid	8015NM Prep	
MB 880-97670/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97670/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97670/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7455-A-5-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7455-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-5	CS-40 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-6	CS-41 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-7	CS-42 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-8	CS-43 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-9	CS-44 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-10	CS-45 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-11	CS-46 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-12	CS-47 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-13	CS-48 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-14	CS-49 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-15	CS-50 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-16	CS-51 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-17	CS-52 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-18	CS-53 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-19	CS-54 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-20	CS-55 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-21	CS-56 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-22	CS-57 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-23	CS-58 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-24	CS-59 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-25	CS-60 (Surface)	Total/NA	Solid	8015B NM	97669
880-52160-26	CS-61 (Surface)	Total/NA	Solid	8015B NM	97669
880-52160-27	CS-62 (Surface)	Total/NA	Solid	8015B NM	97669
MB 880-97669/1-A	Method Blank	Total/NA	Solid	8015B NM	97669
MB 880-97741/1-A	Method Blank	Total/NA	Solid	8015B NM	97741
LCS 880-97669/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97669
LCS 880-97741/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97741
LCSD 880-97669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97669
LCSD 880-97741/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97741
880-52160-5 MS	CS-40 (Surface)	Total/NA	Solid	8015B NM	97741
880-52160-5 MSD	CS-40 (Surface)	Total/NA	Solid	8015B NM	97741
890-7454-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	97669
890-7454-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97669

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 97690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-1	CS-36 (Surface)	Total/NA	Solid	8015B NM	97740
880-52160-2	CS-37 (Surface)	Total/NA	Solid	8015B NM	97740
880-52160-28	CS-63 (Surface)	Total/NA	Solid	8015B NM	97670
880-52160-29	CS-64 (Surface)	Total/NA	Solid	8015B NM	97670
880-52160-30	CS-65 (Surface)	Total/NA	Solid	8015B NM	97670
MB 880-97670/1-A	Method Blank	Total/NA	Solid	8015B NM	97670
MB 880-97740/1-A	Method Blank	Total/NA	Solid	8015B NM	97740
LCS 880-97670/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97670
LCS 880-97740/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97740
LCSD 880-97670/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97670
LCSD 880-97740/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97740
880-52159-A-4-F MS	Matrix Spike	Total/NA	Solid	8015B NM	97740
880-52159-A-4-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97740
890-7455-A-5-E MS	Matrix Spike	Total/NA	Solid	8015B NM	97670
890-7455-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97670

Prep Batch: 97740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-1	CS-36 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-2	CS-37 (Surface)	Total/NA	Solid	8015NM Prep	
MB 880-97740/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97740/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97740/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52159-A-4-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-52159-A-4-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 97741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-5	CS-40 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-6	CS-41 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-7	CS-42 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-8	CS-43 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-9	CS-44 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-10	CS-45 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-11	CS-46 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-12	CS-47 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-13	CS-48 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-14	CS-49 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-15	CS-50 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-16	CS-51 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-17	CS-52 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-18	CS-53 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-19	CS-54 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-20	CS-55 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-21	CS-56 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-22	CS-57 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-23	CS-58 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-24	CS-59 (Surface)	Total/NA	Solid	8015NM Prep	
MB 880-97741/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97741/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97741/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 97741 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-5 MS	CS-40 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-5 MSD	CS-40 (Surface)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-1	CS-36 (Surface)	Total/NA	Solid	8015 NM	
880-52160-2	CS-37 (Surface)	Total/NA	Solid	8015 NM	
880-52160-3	CS-38 (Surface)	Total/NA	Solid	8015 NM	
880-52160-4	CS-39 (Surface)	Total/NA	Solid	8015 NM	
880-52160-5	CS-40 (Surface)	Total/NA	Solid	8015 NM	
880-52160-6	CS-41 (Surface)	Total/NA	Solid	8015 NM	
880-52160-7	CS-42 (Surface)	Total/NA	Solid	8015 NM	
880-52160-8	CS-43 (Surface)	Total/NA	Solid	8015 NM	
880-52160-9	CS-44 (Surface)	Total/NA	Solid	8015 NM	
880-52160-10	CS-45 (Surface)	Total/NA	Solid	8015 NM	
880-52160-11	CS-46 (Surface)	Total/NA	Solid	8015 NM	
880-52160-12	CS-47 (Surface)	Total/NA	Solid	8015 NM	
880-52160-13	CS-48 (Surface)	Total/NA	Solid	8015 NM	
880-52160-14	CS-49 (Surface)	Total/NA	Solid	8015 NM	
880-52160-15	CS-50 (Surface)	Total/NA	Solid	8015 NM	
880-52160-16	CS-51 (Surface)	Total/NA	Solid	8015 NM	
880-52160-17	CS-52 (Surface)	Total/NA	Solid	8015 NM	
880-52160-18	CS-53 (Surface)	Total/NA	Solid	8015 NM	
880-52160-19	CS-54 (Surface)	Total/NA	Solid	8015 NM	
880-52160-20	CS-55 (Surface)	Total/NA	Solid	8015 NM	
880-52160-21	CS-56 (Surface)	Total/NA	Solid	8015 NM	
880-52160-22	CS-57 (Surface)	Total/NA	Solid	8015 NM	
880-52160-23	CS-58 (Surface)	Total/NA	Solid	8015 NM	
880-52160-24	CS-59 (Surface)	Total/NA	Solid	8015 NM	
880-52160-25	CS-60 (Surface)	Total/NA	Solid	8015 NM	
880-52160-26	CS-61 (Surface)	Total/NA	Solid	8015 NM	
880-52160-27	CS-62 (Surface)	Total/NA	Solid	8015 NM	
880-52160-28	CS-63 (Surface)	Total/NA	Solid	8015 NM	
880-52160-29	CS-64 (Surface)	Total/NA	Solid	8015 NM	
880-52160-30	CS-65 (Surface)	Total/NA	Solid	8015 NM	

Prep Batch: 97819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-3	CS-38 (Surface)	Total/NA	Solid	8015NM Prep	
880-52160-4	CS-39 (Surface)	Total/NA	Solid	8015NM Prep	
LCS 880-97819/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7466-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7466-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-3	CS-38 (Surface)	Total/NA	Solid	8015B NM	97819
880-52160-4	CS-39 (Surface)	Total/NA	Solid	8015B NM	97819
LCS 880-97819/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97819
LCSD 880-97819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97819

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 97844 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7466-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	97819
890-7466-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97819

HPLC/IC

Leach Batch: 97733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-1	CS-36 (Surface)	Soluble	Solid	DI Leach	
880-52160-2	CS-37 (Surface)	Soluble	Solid	DI Leach	
880-52160-3	CS-38 (Surface)	Soluble	Solid	DI Leach	
880-52160-4	CS-39 (Surface)	Soluble	Solid	DI Leach	
MB 880-97733/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97733/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97733/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52159-A-14-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52159-A-14-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 97735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-5	CS-40 (Surface)	Soluble	Solid	DI Leach	
880-52160-6	CS-41 (Surface)	Soluble	Solid	DI Leach	
880-52160-7	CS-42 (Surface)	Soluble	Solid	DI Leach	
880-52160-8	CS-43 (Surface)	Soluble	Solid	DI Leach	
880-52160-9	CS-44 (Surface)	Soluble	Solid	DI Leach	
880-52160-10	CS-45 (Surface)	Soluble	Solid	DI Leach	
880-52160-11	CS-46 (Surface)	Soluble	Solid	DI Leach	
880-52160-12	CS-47 (Surface)	Soluble	Solid	DI Leach	
880-52160-13	CS-48 (Surface)	Soluble	Solid	DI Leach	
880-52160-14	CS-49 (Surface)	Soluble	Solid	DI Leach	
880-52160-15	CS-50 (Surface)	Soluble	Solid	DI Leach	
880-52160-16	CS-51 (Surface)	Soluble	Solid	DI Leach	
880-52160-17	CS-52 (Surface)	Soluble	Solid	DI Leach	
880-52160-18	CS-53 (Surface)	Soluble	Solid	DI Leach	
880-52160-19	CS-54 (Surface)	Soluble	Solid	DI Leach	
880-52160-20	CS-55 (Surface)	Soluble	Solid	DI Leach	
880-52160-21	CS-56 (Surface)	Soluble	Solid	DI Leach	
880-52160-22	CS-57 (Surface)	Soluble	Solid	DI Leach	
880-52160-23	CS-58 (Surface)	Soluble	Solid	DI Leach	
880-52160-24	CS-59 (Surface)	Soluble	Solid	DI Leach	
MB 880-97735/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97735/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97735/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52160-5 MS	CS-40 (Surface)	Soluble	Solid	DI Leach	
880-52160-5 MSD	CS-40 (Surface)	Soluble	Solid	DI Leach	
880-52160-15 MS	CS-50 (Surface)	Soluble	Solid	DI Leach	
880-52160-15 MSD	CS-50 (Surface)	Soluble	Solid	DI Leach	

Leach Batch: 97739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-25	CS-60 (Surface)	Soluble	Solid	DI Leach	
880-52160-26	CS-61 (Surface)	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 97739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-27	CS-62 (Surface)	Soluble	Solid	DI Leach	
880-52160-28	CS-63 (Surface)	Soluble	Solid	DI Leach	
880-52160-29	CS-64 (Surface)	Soluble	Solid	DI Leach	
880-52160-30	CS-65 (Surface)	Soluble	Solid	DI Leach	
MB 880-97739/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97739/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97739/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52160-28 MS	CS-63 (Surface)	Soluble	Solid	DI Leach	
880-52160-28 MSD	CS-63 (Surface)	Soluble	Solid	DI Leach	

Analysis Batch: 97756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-1	CS-36 (Surface)	Soluble	Solid	300.0	97733
880-52160-2	CS-37 (Surface)	Soluble	Solid	300.0	97733
880-52160-3	CS-38 (Surface)	Soluble	Solid	300.0	97733
880-52160-4	CS-39 (Surface)	Soluble	Solid	300.0	97733
MB 880-97733/1-A	Method Blank	Soluble	Solid	300.0	97733
LCS 880-97733/2-A	Lab Control Sample	Soluble	Solid	300.0	97733
LCSD 880-97733/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97733
880-52159-A-14-C MS	Matrix Spike	Soluble	Solid	300.0	97733
880-52159-A-14-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97733

Analysis Batch: 97759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-5	CS-40 (Surface)	Soluble	Solid	300.0	97735
880-52160-6	CS-41 (Surface)	Soluble	Solid	300.0	97735
880-52160-7	CS-42 (Surface)	Soluble	Solid	300.0	97735
880-52160-8	CS-43 (Surface)	Soluble	Solid	300.0	97735
880-52160-9	CS-44 (Surface)	Soluble	Solid	300.0	97735
880-52160-10	CS-45 (Surface)	Soluble	Solid	300.0	97735
880-52160-11	CS-46 (Surface)	Soluble	Solid	300.0	97735
880-52160-12	CS-47 (Surface)	Soluble	Solid	300.0	97735
880-52160-13	CS-48 (Surface)	Soluble	Solid	300.0	97735
880-52160-14	CS-49 (Surface)	Soluble	Solid	300.0	97735
880-52160-15	CS-50 (Surface)	Soluble	Solid	300.0	97735
880-52160-16	CS-51 (Surface)	Soluble	Solid	300.0	97735
880-52160-17	CS-52 (Surface)	Soluble	Solid	300.0	97735
880-52160-18	CS-53 (Surface)	Soluble	Solid	300.0	97735
880-52160-19	CS-54 (Surface)	Soluble	Solid	300.0	97735
880-52160-20	CS-55 (Surface)	Soluble	Solid	300.0	97735
880-52160-21	CS-56 (Surface)	Soluble	Solid	300.0	97735
880-52160-22	CS-57 (Surface)	Soluble	Solid	300.0	97735
880-52160-23	CS-58 (Surface)	Soluble	Solid	300.0	97735
880-52160-24	CS-59 (Surface)	Soluble	Solid	300.0	97735
MB 880-97735/1-A	Method Blank	Soluble	Solid	300.0	97735
LCS 880-97735/2-A	Lab Control Sample	Soluble	Solid	300.0	97735
LCSD 880-97735/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97735
880-52160-5 MS	CS-40 (Surface)	Soluble	Solid	300.0	97735
880-52160-5 MSD	CS-40 (Surface)	Soluble	Solid	300.0	97735
880-52160-15 MS	CS-50 (Surface)	Soluble	Solid	300.0	97735
880-52160-15 MSD	CS-50 (Surface)	Soluble	Solid	300.0	97735

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 97765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52160-25	CS-60 (Surface)	Soluble	Solid	300.0	97739
880-52160-26	CS-61 (Surface)	Soluble	Solid	300.0	97739
880-52160-27	CS-62 (Surface)	Soluble	Solid	300.0	97739
880-52160-28	CS-63 (Surface)	Soluble	Solid	300.0	97739
880-52160-29	CS-64 (Surface)	Soluble	Solid	300.0	97739
880-52160-30	CS-65 (Surface)	Soluble	Solid	300.0	97739
MB 880-97739/1-A	Method Blank	Soluble	Solid	300.0	97739
LCS 880-97739/2-A	Lab Control Sample	Soluble	Solid	300.0	97739
LCSD 880-97739/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97739
880-52160-28 MS	CS-63 (Surface)	Soluble	Solid	300.0	97739
880-52160-28 MSD	CS-63 (Surface)	Soluble	Solid	300.0	97739

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-36 (Surface)

Lab Sample ID: 880-52160-1

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 17:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/12/24 21:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97740	12/12/24 13:09	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97690	12/12/24 21:54	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97733	12/12/24 12:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97756	12/12/24 20:30	CH	EET MID

Client Sample ID: CS-37 (Surface)

Lab Sample ID: 880-52160-2

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 17:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/12/24 22:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97740	12/12/24 13:09	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97690	12/12/24 22:09	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	97733	12/12/24 12:53	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97756	12/12/24 20:36	CH	EET MID

Client Sample ID: CS-38 (Surface)

Lab Sample ID: 880-52160-3

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 18:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 14:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97819	12/13/24 09:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97844	12/13/24 14:22	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97733	12/12/24 12:53	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97756	12/12/24 20:41	CH	EET MID

Client Sample ID: CS-39 (Surface)

Lab Sample ID: 880-52160-4

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 18:36	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-39 (Surface)

Lab Sample ID: 880-52160-4

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			97784	12/13/24 14:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97819	12/13/24 09:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97844	12/13/24 14:36	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97733	12/12/24 12:53	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97756	12/12/24 20:46	CH	EET MID

Client Sample ID: CS-40 (Surface)

Lab Sample ID: 880-52160-5

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 18:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 00:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 00:34	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	97759	12/12/24 21:28	CH	EET MID

Client Sample ID: CS-41 (Surface)

Lab Sample ID: 880-52160-6

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 19:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 01:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 01:18	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 21:44	CH	EET MID

Client Sample ID: CS-42 (Surface)

Lab Sample ID: 880-52160-7

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 19:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 01:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 01:32	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-42 (Surface)

Lab Sample ID: 880-52160-7

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 21:49	CH	EET MID

Client Sample ID: CS-43 (Surface)

Lab Sample ID: 880-52160-8

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 19:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 01:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 01:48	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 21:55	CH	EET MID

Client Sample ID: CS-44 (Surface)

Lab Sample ID: 880-52160-9

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 20:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 02:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 02:02	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 22:00	CH	EET MID

Client Sample ID: CS-45 (Surface)

Lab Sample ID: 880-52160-10

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 20:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 02:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 02:17	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 22:16	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-46 (Surface)

Lab Sample ID: 880-52160-11

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 22:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 22:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 02:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 02:31	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 22:21	CH	EET MID

Client Sample ID: CS-47 (Surface)

Lab Sample ID: 880-52160-12

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 22:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 22:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 02:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 02:46	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 22:26	CH	EET MID

Client Sample ID: CS-48 (Surface)

Lab Sample ID: 880-52160-13

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 22:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 22:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 03:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 03:01	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 22:32	CH	EET MID

Client Sample ID: CS-49 (Surface)

Lab Sample ID: 880-52160-14

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 23:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 23:04	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-49 (Surface)

Lab Sample ID: 880-52160-14

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			97784	12/13/24 03:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 03:15	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 22:37	CH	EET MID

Client Sample ID: CS-50 (Surface)

Lab Sample ID: 880-52160-15

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 23:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 23:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 03:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 03:45	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 22:42	CH	EET MID

Client Sample ID: CS-51 (Surface)

Lab Sample ID: 880-52160-16

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/12/24 23:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 23:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 03:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 03:59	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 22:58	CH	EET MID

Client Sample ID: CS-52 (Surface)

Lab Sample ID: 880-52160-17

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/13/24 00:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 00:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 04:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 04:14	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-52 (Surface)

Lab Sample ID: 880-52160-17

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 23:03	CH	EET MID

Client Sample ID: CS-53 (Surface)

Lab Sample ID: 880-52160-18

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/13/24 00:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 00:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 04:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 04:28	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 23:19	CH	EET MID

Client Sample ID: CS-54 (Surface)

Lab Sample ID: 880-52160-19

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/13/24 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 00:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 04:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 04:44	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 23:24	CH	EET MID

Client Sample ID: CS-55 (Surface)

Lab Sample ID: 880-52160-20

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97734	12/12/24 12:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97761	12/13/24 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 01:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 04:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 04:57	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 23:30	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-56 (Surface)

Lab Sample ID: 880-52160-21

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	97736	12/12/24 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97763	12/13/24 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 00:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 05:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 05:13	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 23:35	CH	EET MID

Client Sample ID: CS-57 (Surface)

Lab Sample ID: 880-52160-22

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97736	12/12/24 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97763	12/13/24 01:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 01:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 05:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 05:27	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 23:40	CH	EET MID

Client Sample ID: CS-58 (Surface)

Lab Sample ID: 880-52160-23

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	97736	12/12/24 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97763	12/13/24 01:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 01:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/13/24 05:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 05:41	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 23:45	CH	EET MID

Client Sample ID: CS-59 (Surface)

Lab Sample ID: 880-52160-24

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97736	12/12/24 12:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97763	12/13/24 01:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 01:55	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-59 (Surface)

Lab Sample ID: 880-52160-24

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

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			97784	12/13/24 05:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97741	12/12/24 13:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/13/24 05:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	97735	12/12/24 12:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97759	12/12/24 23:51	CH	EET MID

Client Sample ID: CS-60 (Surface)

Lab Sample ID: 880-52160-25

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	97737	12/12/24 12:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97674	12/12/24 22:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 22:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/12/24 14:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	97669	12/12/24 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/12/24 14:32	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	97739	12/12/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97765	12/12/24 23:16	CH	EET MID

Client Sample ID: CS-61 (Surface)

Lab Sample ID: 880-52160-26

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	97737	12/12/24 12:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97674	12/12/24 23:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 23:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/12/24 14:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	97669	12/12/24 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/12/24 14:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97739	12/12/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97765	12/12/24 23:22	CH	EET MID

Client Sample ID: CS-62 (Surface)

Lab Sample ID: 880-52160-27

Date Collected: 12/12/24 00:00

Matrix: Solid

Date Received: 12/12/24 11:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	97737	12/12/24 12:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97674	12/12/24 23:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 23:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/12/24 15:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	97669	12/12/24 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97688	12/12/24 15:01	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-62 (Surface)

Date Collected: 12/12/24 00:00

Date Received: 12/12/24 11:30

Lab Sample ID: 880-52160-27

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			4.96 g	50 mL	97739	12/12/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97765	12/12/24 23:28	CH	EET MID

Client Sample ID: CS-63 (Surface)

Date Collected: 12/12/24 00:00

Date Received: 12/12/24 11:30

Lab Sample ID: 880-52160-28

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	97737	12/12/24 12:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97674	12/12/24 23:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/12/24 23:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/12/24 14:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	97670	12/12/24 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97690	12/12/24 14:32	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97739	12/12/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97765	12/12/24 23:34	CH	EET MID

Client Sample ID: CS-64 (Surface)

Date Collected: 12/12/24 00:00

Date Received: 12/12/24 11:30

Lab Sample ID: 880-52160-29

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	97737	12/12/24 12:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97674	12/13/24 00:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 00:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/12/24 14:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	97670	12/12/24 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97690	12/12/24 14:46	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	97739	12/12/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97765	12/12/24 23:52	CH	EET MID

Client Sample ID: CS-65 (Surface)

Date Collected: 12/12/24 00:00

Date Received: 12/12/24 11:30

Lab Sample ID: 880-52160-30

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	97737	12/12/24 12:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97674	12/13/24 00:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			97798	12/13/24 00:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			97784	12/12/24 15:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	97670	12/12/24 08:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97690	12/12/24 15:01	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	97739	12/12/24 13:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97765	12/12/24 23:58	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Carmona Resources
Project/Site: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
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: Asio Otis Fed #3 (6.22.23)

Job ID: 880-52160-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52160-1	CS-36 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-2	CS-37 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-3	CS-38 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-4	CS-39 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-5	CS-40 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-6	CS-41 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-7	CS-42 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-8	CS-43 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-9	CS-44 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-10	CS-45 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-11	CS-46 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-12	CS-47 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-13	CS-48 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-14	CS-49 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-15	CS-50 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-16	CS-51 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-17	CS-52 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-18	CS-53 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-19	CS-54 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-20	CS-55 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-21	CS-56 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-22	CS-57 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-23	CS-58 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-24	CS-59 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-25	CS-60 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-26	CS-61 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-27	CS-62 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-28	CS-63 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-29	CS-64 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30
880-52160-30	CS-65 (Surface)	Solid	12/12/24 00:00	12/12/24 11:30

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Chain of Custody



880-52160 Chain of Custody

Page 1 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@carmonaresources.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Asio Otis Fed #3 (6.22.23)		Turn Around			ANALYSIS REQUEST												Preservative Codes						
Project Number:		2073		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush													None: NO	DI Water: H ₂ O							
Project Location		Eddy County, New Mexico		Due Date:		24 Hrs											Cool: Cool	MeOH: Me							
Sampler's Name:		CRM															HCL: HC	HNO ₃ : HN							
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes- No		Wet Ice:		Yes- No										H ₃ PO ₄ : HP							
Received Intact:		Yes- No		Thermometer ID:														NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes No		Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes No		Temperature Reading:														Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:														NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/ Comp		# of Cont		Sample Comments											
CS-36 (Surface)		12/12/2024				X				C		1		X X X											
CS-37 (Surface)		12/12/2024				X				C		1		X X X											
CS-38 (Surface)		12/12/2024				X				C		1		X X X											
CS-39 (Surface)		12/12/2024				X				C		1		X X X											
CS-40 (Surface)		12/12/2024				X				C		1		X X X											
CS-41 (Surface)		12/12/2024				X				C		1		X X X											
CS-42 (Surface)		12/12/2024				X				C		1		X X X											
CS-43 (Surface)		12/12/2024				X				C		1		X X X											
CS-44 (Surface)		12/12/2024				X				C		1		X X X											
CS-45 (Surface)		12/12/2024				X				C		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
<i>Conner Moehring</i>	12/12/2024 11:11	<i>[Signature]</i>	12/12/2024 11:30

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Chain of Custody

Work Order No: —

Loc: 880
52160

12/13/2024



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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:	mcarmona@carmonaresources.com

Work Order Comments	
Program: <input type="checkbox"/> UST/ <input type="checkbox"/> PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Asio Otis Fed #3 (6.22.23)		Turn Around			ANALYSIS REQUEST												Preservative Codes				
Project Number:		2073		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		Pres. Code											None: NO	DI Water: H ₂ O				
Project Location		Eddy County, New Mexico		Due Date:		24 Hrs												Cool: Cool	MeOH: Me				
Sampler's Name:		CRM																HCL: HC	HNO ₃ : HN				
PO #:																		H ₂ SO ₄ : H ₂	NaOH: Na				
SAMPLE RECEIPT		Temp Blank:		Yes	No	Wet Ice:	Yes	No											H ₃ PO ₄ : HP				
Received Intact:		Yes		No	Thermometer ID:												NaHSO ₄ : NABIS						
Cooler Custody Seals:		Yes		No	N/A	Correction Factor:												Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes		No	N/A	Temperature Reading:												Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:												NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont		Sample Comments									
CS-46 (Surface)		12/12/2024				X				C		1											
CS-47 (Surface)		12/12/2024				X				C		1		X	X	X							
CS-48 (Surface)		12/12/2024				X				C		1		X	X	X							
CS-49 (Surface)		12/12/2024				X				C		1		X	X	X							
CS-50 (Surface)		12/12/2024				X				C		1		X	X	X							
CS-51 (Surface)		12/12/2024				X				C		1		X	X	X							
CS-52 (Surface)		12/12/2024				X				C		1		X	X	X							
CS-53 (Surface)		12/12/2024				X				C		1		X	X	X							
CS-54 (Surface)		12/12/2024				X				C		1		X	X	X							
CS-55 (Surface)		12/12/2024				X				C		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
	12/12/2024		12/12/2024

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Chain of Custody



Work Order No: 160

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Project Manager:	Conner Moehring	Bill to: (if different)	Camrona Resources
Company Name:	Camrona 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:	mcamrona@camronaresources.com
Work Order Comments			
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>			
State of Project:			
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>			
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>			

Project Name:	Aslo Ots Fed #3 (6.22.23)		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2073		<input checked="" type="checkbox"/> Rush															None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC		
Project Location:	Eddy County, New Mexico		Due Date:	24 Hrs	Parameters	BTEX 8021B												DI Water: H ₂ O		
Sampler's Name:	CRM					TPH 8015M (GRO + DRO + MRO)												MeOH: Me		
PO #:						Chloride 300.0												HNO ₃ : HN		
SAMPLE RECEIPT	Temp Blank:	Yes No	Yes No	Well Ice:		Yes No													NaOH: Na	
Received Inact:	Yes No	Thermometer ID:																		
Cooler Custody Seals:	Yes No N/A	Correction Factor:																		
Sample Custody Seals:	Yes No N/A	Temperature Reading:																		
Total Containers:			Corrected Temperature:																	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-56 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-57 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-58 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-59 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-60 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-61 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-62 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-63 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-64 (Surface)	12/12/2024		X		C	1	X	X	X	X										
CS-65 (Surface)	12/12/2024		X		C	1	X	X	X	X										

Comments: Email to Mike Camrona / mcamrona@camronaresources.com and Conner Moehring / cmoehring@camronaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/12/24 @ 11:		12/12/180

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52160-1

SDG Number: Eddy County, New Mexico

Login Number: 52160

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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

APPENDIX F

CARMONA RESOURCES



Soil Map—Eddy Area, New Mexico



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

10/17/2023
Page 1 of 3


Soil Map—Eddy Area, New Mexico


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	0.3	100.0%
Totals for Area of Interest		0.3	100.0%

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f

Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent

Gypsum land: 30 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Description of Gypsum Land**Setting**

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components**Reagan**

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Largo

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

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

QUESTIONS

Action 472645

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472645
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2319138455
Incident Name	NAPP2319138455 ASIO OTUS CTB @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2202647776] ASIO OTUS FED #3H RT BTTY

Location of Release Source

Please answer all the questions in this group.

Site Name	ASIO OTUS CTB
Date Release Discovered	06/22/2023
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 34 BBL Recovered: 0 BBL Lost: 34 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 472645

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472645
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/10/2025
--	---

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QUESTIONS, Page 3

Action 472645

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472645
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8015
GRO+DRO (EPA SW-846 Method 8015M)	8015
BTEX (EPA SW-846 Method 8021B or 8260B)	8021
Benzene (EPA SW-846 Method 8021B or 8260B)	8021

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/10/2023
On what date will (or did) the final sampling or liner inspection occur	10/11/2023
On what date will (or was) the remediation complete(d)	10/19/2023
What is the estimated surface area (in square feet) that will be reclaimed	5476
What is the estimated volume (in cubic yards) that will be reclaimed	456
What is the estimated surface area (in square feet) that will be remediated	5476
What is the estimated volume (in cubic yards) that will be remediated	456

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 472645

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	472645
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	ASIO OTUS FED #3H RT BTTY [fAPP2202647776]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/10/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 472645

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472645
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 472645

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472645
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	410315
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/12/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	4450

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5476
What was the total volume (cubic yards) remediated	456
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5476
What was the total volume (in cubic yards) reclaimed	456
Summarize any additional remediation activities not included by answers (above)	Based on lab analytical results, the area of concern displayed concentrations below regulatory thresholds for TPH, Chloride, & BTEX
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/10/2025

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QUESTIONS, Page 7

Action 472645

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472645
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	5476
What was the total volume of replacement material (in cubic yards) for this site	456
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	10/19/2023
Summarize any additional reclamation activities not included by answers (above)	The site was re-seeded via hand broadcasting.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/10/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 8

Action 472645

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472645
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 472645

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 472645
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your reclamation/remediation closure report for Incident #NAPP2319138455 ASIO OTUS CTB, thank you. The reclamation/remediation closure report is approved.	7/21/2025