

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

Spill Calculation - Subsurface Spill - Rectangle								Remediation Recommendation	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Current Rule of Thumb - RMR Handover Volume, (yd ³ .)
Rectangle A	20.0	9.0	1.0	On-Pad✓	10.50%	2.67	0.28	0.69	750
Rectangle B	35.0	37.0	1.0	On-Pad✓	10.50%	19.21	2.02	5.00	
Rectangle C	26.0	19.0	5.0	On-Pad✓	10.50%	36.64	3.85	9.53	
Rectangle D				On-Pad✓	10.50%	0.00	0.00	0.00	
Rectangle E				On-Pad✓	10.50%	0.00	0.00	0.00	
Rectangle F				✓		0.00		0.00	
Rectangle G				✓		0.00		0.00	
Rectangle H				✓		0.00		0.00	
Rectangle I				✓		0.00		0.00	
Rectangle J				✓		0.00		0.00	
Total Subsurface Volume Released:							6.1443	15.22	BU



SITE INFORMATION

Closure Report
Cluster State Com CTB (09.09.2023)
Eddy County, New Mexico
Incident ID: NAPP2327650601
Unit D Sec 16 T26S R27E
32.0489°, -104.2023 °

Crude Oil Release
Point of Release: Pump Leak
Release Date: 09/09/2023
Volume Released: 6.1443 barrels of Crude Oil
Volume Recovered: 1 barrel of Crude Oil

CARMONA RESOURCES



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

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



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December 19, 2023

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

**Re: Closure Report
Cluster State Com CTB (09.09.2023)
Concho Operating, LLC
Site Location: Unit D, S16, T26S, R27E
(Lat 32.0489, Long -104.2023)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Standard Safety and Supply and Carmona Resources, LLC has prepared this letter to document site assessment activities for the Cluster State Com CTB. The site is located at 32.0489, -104.2023 within Unit D, S16, T26S, R27E, 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 September 9, 2023, from a pump leak. It resulted in approximately six point one four four three (6.1443) barrels of crude oil being released, with one (1) barrel of crude oil recovered. The impacted area occurred on the pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 0.82 miles Northeast of the site in S07, T26S, R27E and was drilled in 2003. The well has a reported depth to groundwater of 17.75 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, 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 November 9, 2023, Carmona Resources, LLC was contacted by Standard Safety and Supply to evaluate soil impacts stemming from the release. A total of three (3) trench points (T-1 through T-3) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to



4' bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved for all trenching locations. Refer to Table 1.

Horizontal Delineation

All areas were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Except for H-1 which had an elevated total TPH value 141 mg/kg. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on November 30, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of T-2 was excavated to a depth of 1.5' bgs. A total of six (6) confirmation floor samples were collected (CS-1 through CS-6), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Approximately 180 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

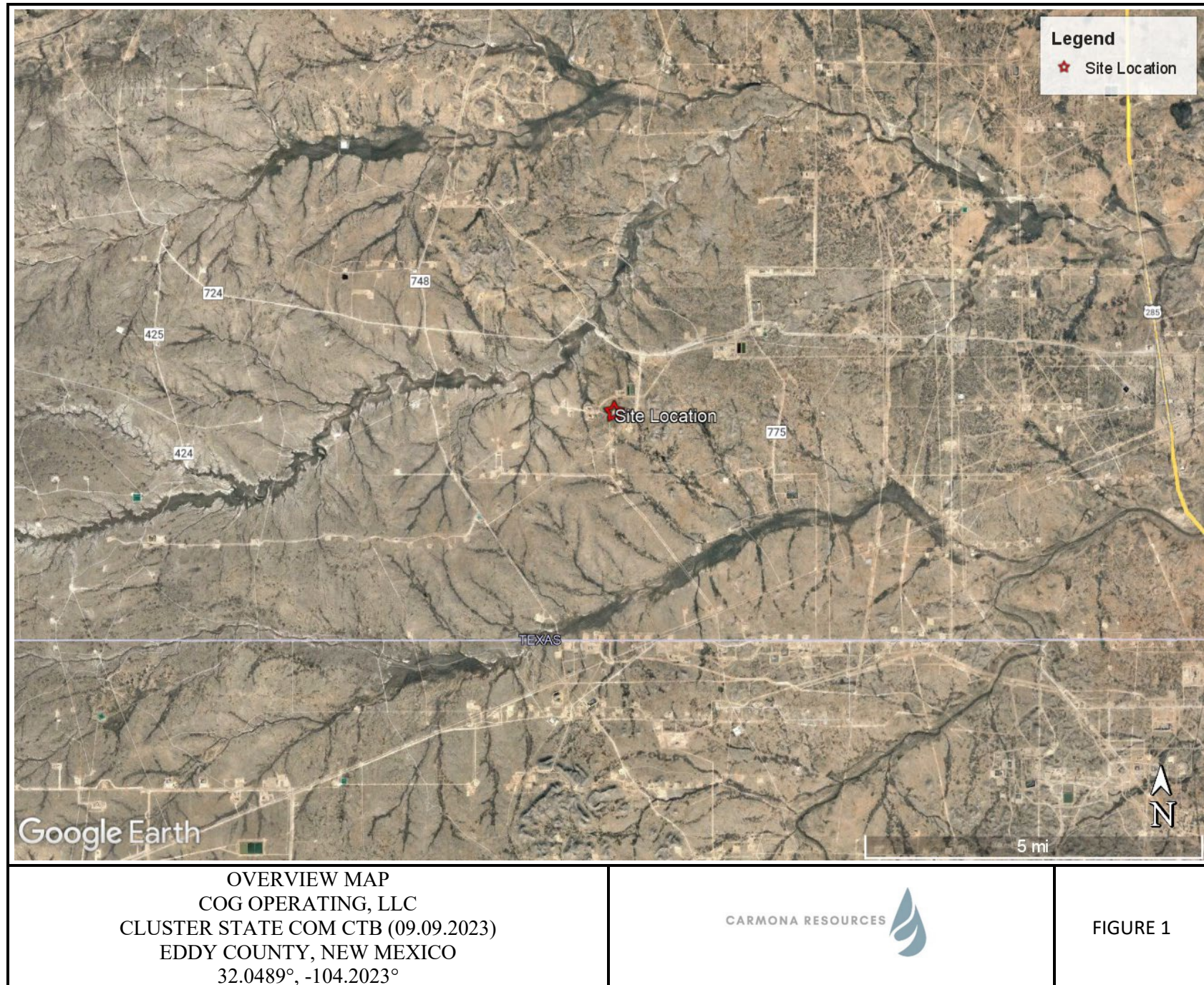
Mike Carmona
Environmental Manager

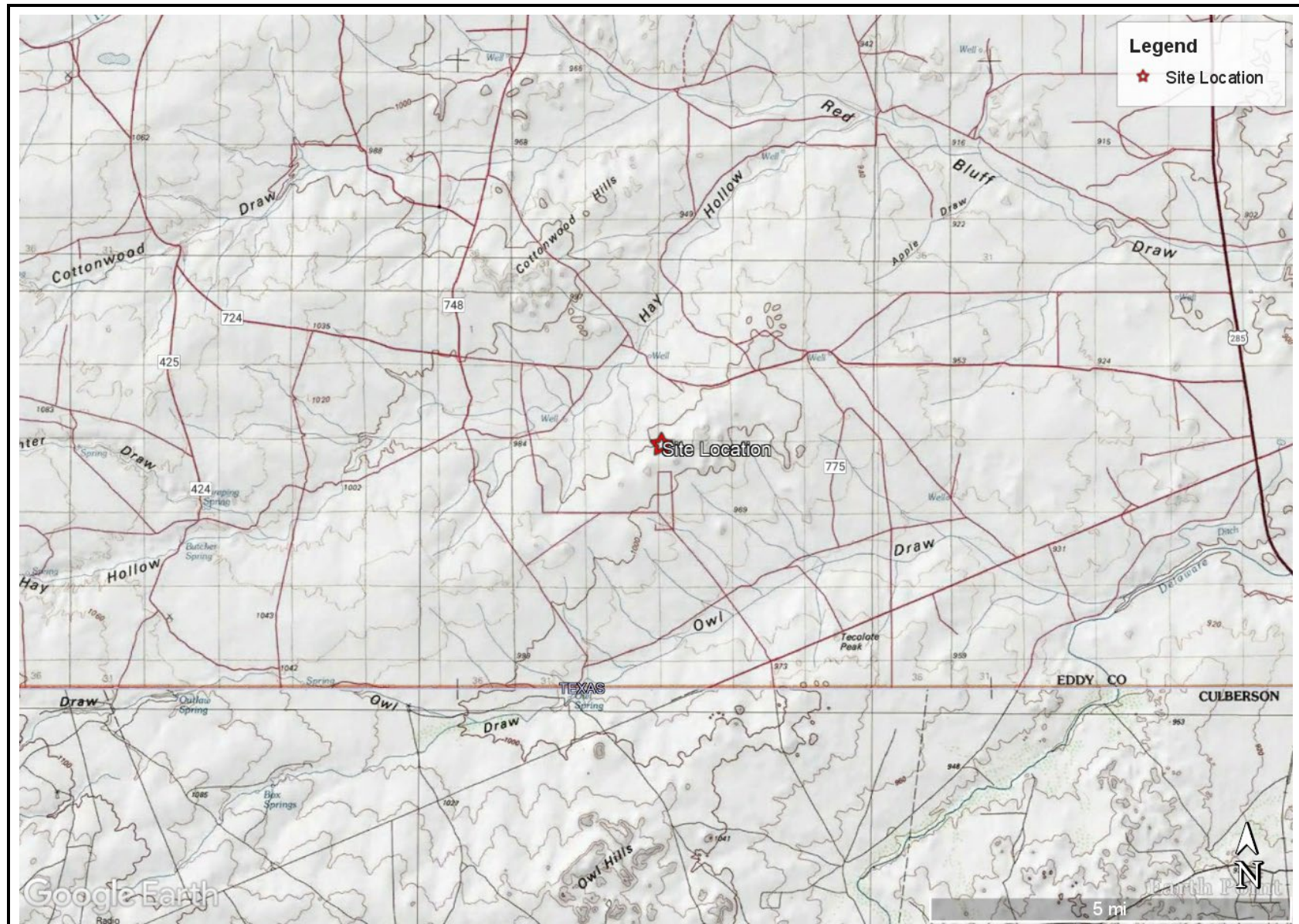
Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



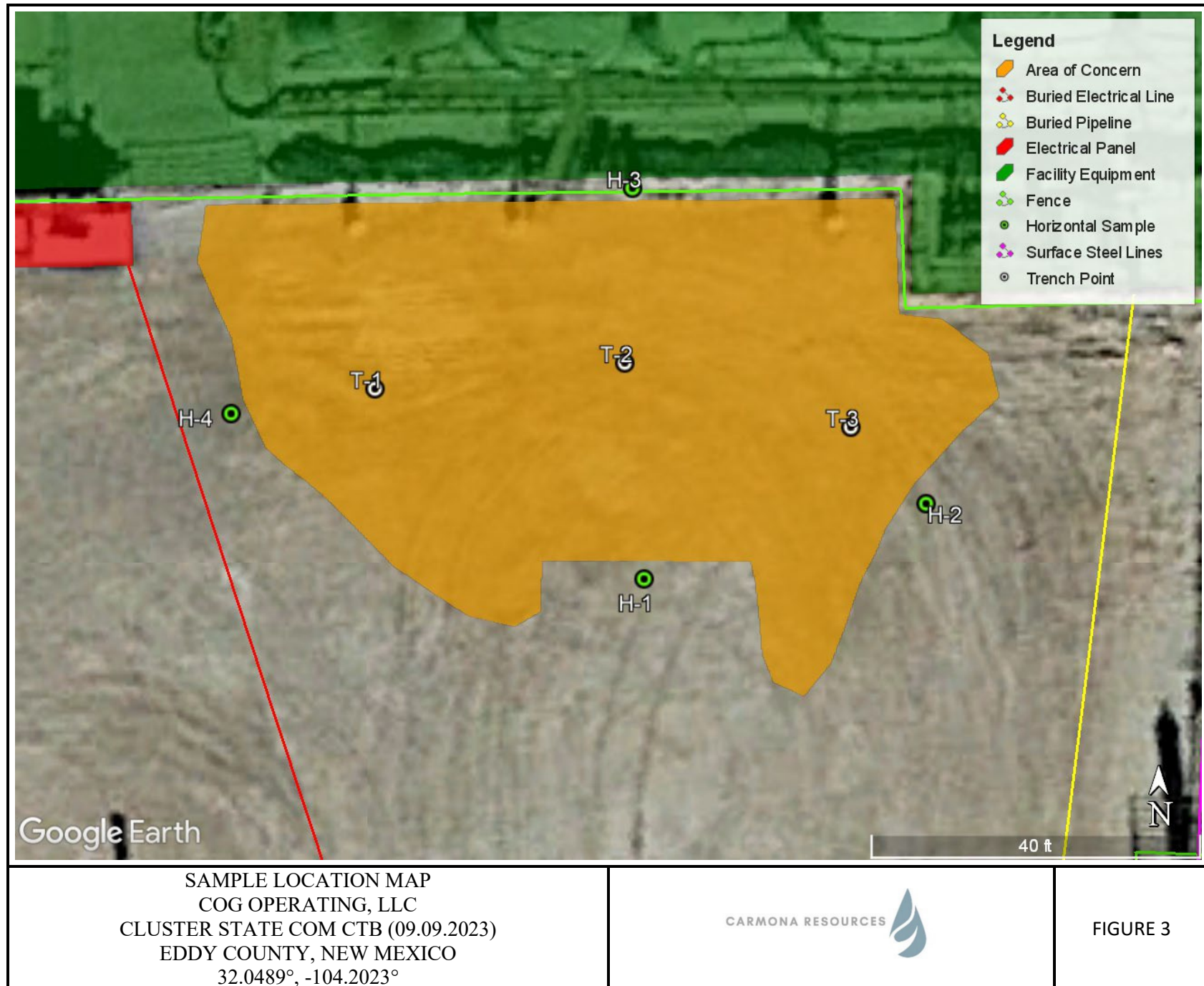


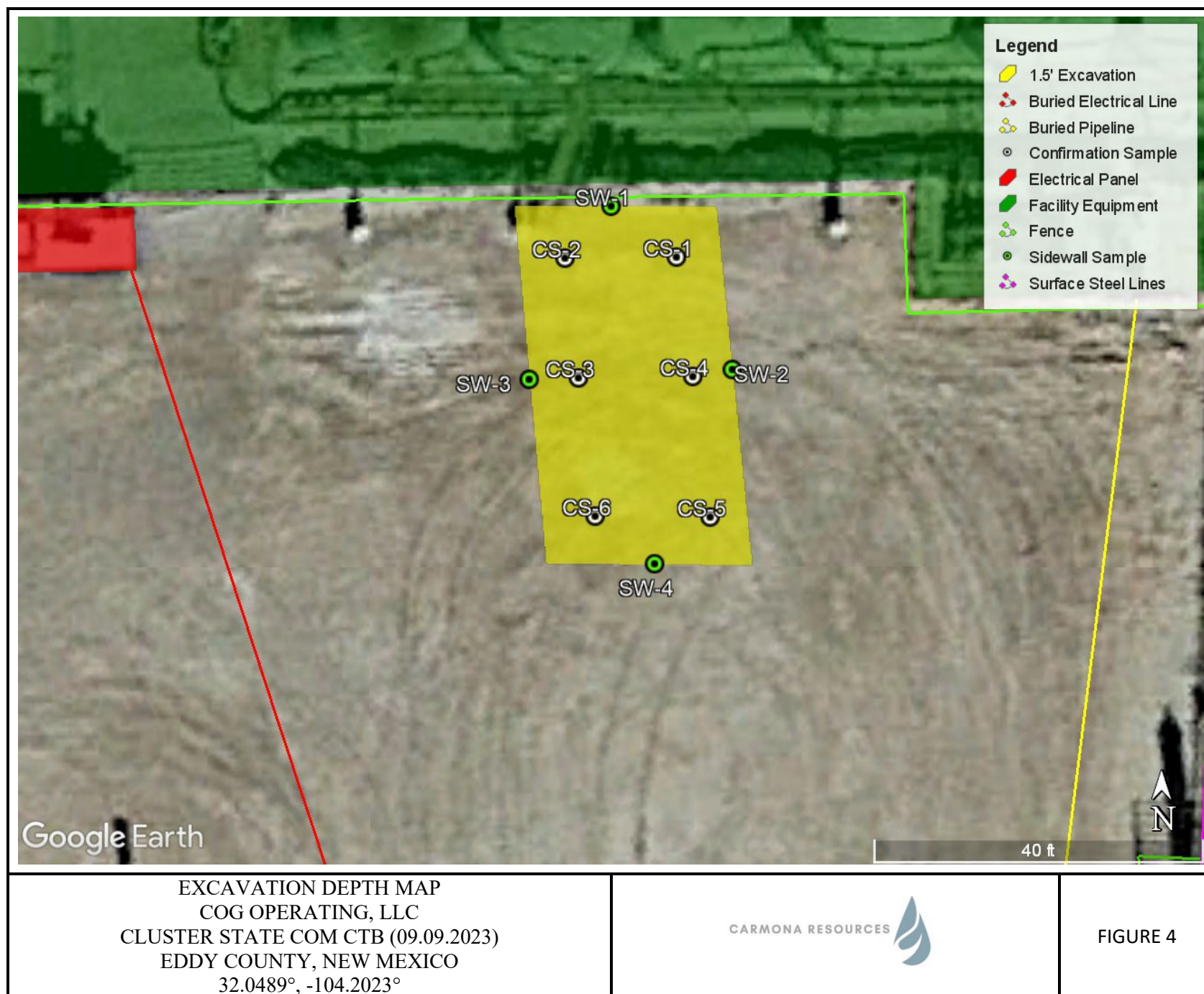


TOPOGRAPHIC MAP
 COG OPERATING, LLC
 CLUSTER STATE COM CTB (09.09.2023)
 EDDY COUNTY, NEW MEXICO
 32.0489°, -104.2023°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
Standard Safety & Supply
Cluster State Com CTB (09.09.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	11/9/2023	0-1	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	131
	"	1.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	316
	"	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	113
	"	3.0	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	29.0
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	214
T-2	11/9/2023	0-1	<50.3	110	<50.3	110	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	45.6
	"	1.5	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	48.3
	"	2.0	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	32.7
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	66.9
T-3	11/9/2023	0-1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	60.6
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	113
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	79.1
	"	3.0	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	93.0
	"	4.0	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	101
H-1	11/9/2023	0-0.5	<49.7	141	<49.7	141	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	82.4
	12/4/2023	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	361
H-2	11/9/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	88.8
H-3	11/9/2023	0-0.5	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	76.9
H-4	11/9/2023	0-0.5	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	42.9
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons
ft-feet

(T) Trench Sample

(H) Horizontal Sample

 Removed

Table 2
Standard Safety & Supply
Cluster State Com CTB (09.09.23)
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	12/4/2023	1.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	49.1
CS-2	12/4/2023	1.5	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	293
CS-3	12/4/2023	1.5	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	232
CS-4	12/4/2023	1.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	49.8
CS-5	12/4/2023	1.5	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	120
CS-6	12/4/2023	1.5	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	65.5
SW-1	12/4/2023	1.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	38.3
SW-2	12/4/2023	1.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	156
SW-3	12/4/2023	1.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	49.9
SW-4	12/4/2023	1.5	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	352
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Cluster State Com CTB (09.09.2023)

County: Eddy County, New Mexico

Description:

View North, area of CS-1 through CS-6.



Photograph No. 2

Facility: Cluster State Com CTB (09.09.2023)

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-1 through CS-6.



Photograph No. 3

Facility: Cluster State Com CTB (09.09.2023)

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-1 and CS-4.



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Cluster State Com CTB (09.09.2023)

County: Eddy County, New Mexico

Description:

View East, area of CS-3 through CS-6.



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	NAPP2327650601
District RP	
Facility ID	fAPP2203347145
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jacqui Harris	Contact Telephone	(575) 496-0780
Contact email	Jacqui.Harris@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2327650601
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.0489 Longitude -104.2023
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Cluster State Com CTB	Site Type	Tank Battery
Date Release Discovered	September 9, 2023	API# (if applicable)	

Unit Letter	Section	Township	Range	County
D	16	26S	27E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 6.1443	Volume Recovered (bbls) 1
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a pump leak.
The release was on pad. A vacuum truck was dispatched to remove all freestanding fluids.
Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Incident ID	NAPP2327650601
District RP	
Facility ID	fAPP2203347145
Application ID	

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

Initial Response

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

☐ The source of the release has been stopped. ☐ The impacted area has been secured to protect human health and the environment. ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name Brittany N. Esparza Signature:  email: Brittany.Esparza@ConocoPhillips.com	Title: Environmental Technician Date: 9/25/2023 Telephone: (432) 221-0398
<u>OCD Only</u>	
Received by: Shelly Wells	
Date: 10/3/2023	

Spill Calculation - Subsurface Spill - Rectangle								Remediation Recommendation	
Received by OCD: 1/25/2024 12:49:13 PM Convert Irregular shape into a series of rectangles								Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Page 22 of 162 Current Rule of Thumb - RMR Handover Volume, (yd³.)
Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)			
Rectangle A	20.0	9.0	1.0	On-Pad✓	10.50%	2.67	0.28	0.69	750
Rectangle B	35.0	37.0	1.0	On-Pad✓	10.50%	19.21	2.02	5.00	
Rectangle C	26.0	19.0	5.0	On-Pad✓	10.50%	36.64	3.85	9.53	
Rectangle D				On-Pad✓	10.50%	0.00	0.00	0.00	
Rectangle E				On-Pad✓	10.50%	0.00	0.00	0.00	
Rectangle F				✓		0.00		0.00	
Rectangle G				✓		0.00		0.00	
Rectangle H				✓		0.00		0.00	
Rectangle I				✓		0.00		0.00	
Rectangle J				✓		0.00		0.00	
Total Subsurface Volume Released:						6.1443		15.22	BU
Released to Imaging: 4/3/2024 2:28:19 PM									

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 271942

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 271942
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/3/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris 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: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Conner Moehring

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Thursday, November 30, 2023 3:23 PM
To: Conner Moehring; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc: Mike Carmona; Devin Dominguez; Clint Merritt
Subject: RE: [EXTERNAL] COG - Cluster State Com CTB (09.09.23)

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.

Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Thursday, November 30, 2023 12:00 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>; Clint Merritt <MerrittC@carmonaresources.com>
Subject: [EXTERNAL] COG - Cluster State Com CTB (09.09.23)

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

All,

This email serves as a notification for confirmation sampling on the COG – Cluster State Com CTB (09.09.23). Sampling is scheduled to begin on Monday, December 4, 2023, around 8:00 a.m. Mountain Time and continue through the week. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident Number: NAPP2327650601

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

Conner Moehring

From: Conner Moehring
Sent: Thursday, November 30, 2023 12:01 PM
To: eco@slo.state.nm.us
Cc: Mike Carmona; Devin Dominguez; Clint Merritt
Subject: COG – Cluster State Com CTB (09.09.23) - Sampling Notification

All,

This email serves as a notification for confirmation sampling on the COG – Cluster State Com CTB (09.09.23). Sampling is scheduled to begin on Monday, December 4, 2023, around 8:00 a.m. Mountain Time and continue through the week. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident Number: NAPP2327650601

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

APPENDIX D

CARMONA RESOURCES

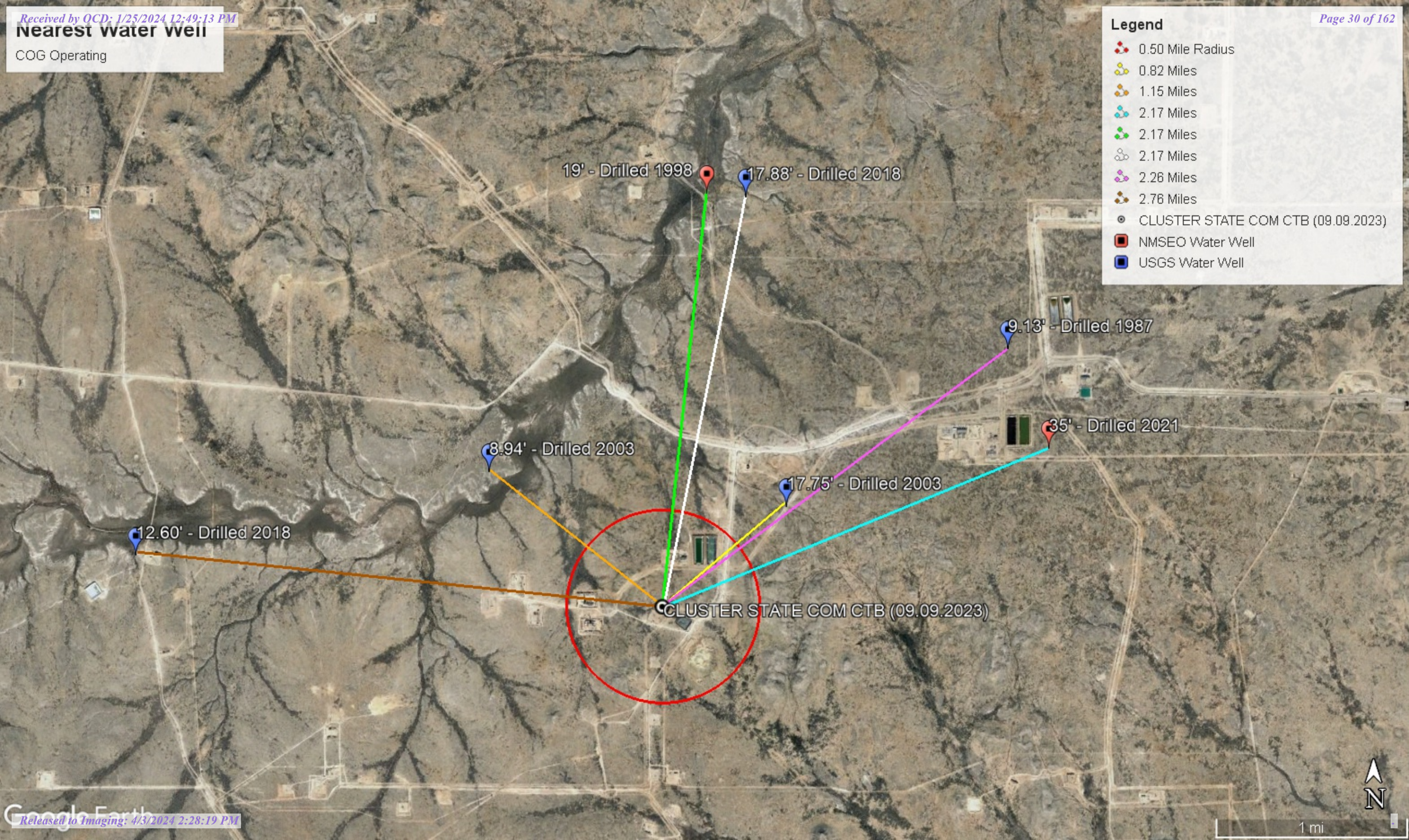


Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 0.82 Miles
- 1.15 Miles
- 2.17 Miles
- 2.17 Miles
- 2.17 Miles
- 2.26 Miles
- 2.76 Miles
- CLUSTER STATE COM CTB (09.09.2023)
- NMSEO Water Well
- USGS Water Well



1 mi

Medium Karst

COG Operating

Legend

- CLUSTER STATE COM CTB (09.09.2023)
- High
- Medium

CLUSTER STATE COM CTB (09.09.2023)



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02219	CUB	ED	4	4	4	05	26S	27E	575033	3547948*		1833	35		
C 02218	CUB	ED	4	1	4	07	26S	27E	573039	3546725*		2343	35		
C 04269 POD1	CUB	ED	4	2	3	18	26S	27E	572620	3545176		2853	105		
C 02588	C	ED	3	4	3	33	25S	27E	575645	3549575*		3456	81	19	62
C 04573 POD1	CUB	ED	3	1	1	11	26S	27E	578524	3547472		3484	104	35	69
C 04573 POD2	CUB	ED	3	1	1	11	26S	27E	578565	3547561		3555	104	35	69
C 04573 POD3	CUB	ED	4	1	1	11	26S	27E	578584	3547602		3589	100	36	64
C 02930	C	ED	2	3	4	22	26S	27E	577938	3543284*		3879	100	50	50
C 04079 POD1	CUB	ED	1	2	3	33	25S	27E	575658	3550092		3972	226	20	206

Average Depth to Water: **32 feet**

Minimum Depth: **19 feet**

Maximum Depth: **50 feet**

Record Count: 9

UTM NAD83 Radius Search (in meters):

Easting (X): 575307.13

Northing (Y): 3546135.21

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.

11/13/23 1:07 PM

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	? Status
				Groundwater	New Mexico	GO	

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320323104112901

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

USGS 320323104112901 26S.27E.07.414444

Eddy County, New Mexico
Latitude 32°03'23", Longitude 104°11'29" NAD27
Land-surface elevation 3,268 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1978-01-25			D	62610	3257.04	NGVD29	1		Z	
1978-01-25			D	62611	3258.69	NAVD88	1		Z	
1978-01-25			D	72019	9.31		1		Z	
1983-01-25			D	62610	3258.77	NGVD29	P		Z	
1983-01-25			D	62611	3260.42	NAVD88	P		Z	
1983-01-25			D	72019	7.58		P		Z	
1987-10-08			D	62610	3258.70	NGVD29	1		Z	
1987-10-08			D	62611	3260.35	NAVD88	1		Z	
1987-10-08			D	72019	7.65		1		Z	
1988-04-07			D	62610	3259.93	NGVD29	1		Z	
1988-04-07			D	62611	3261.58	NAVD88	1		Z	
1988-04-07			D	72019	6.42		1		Z	
1992-11-18			D	62610	3257.57	NGVD29	1		S	
1992-11-18			D	62611	3259.22	NAVD88	1		S	
1992-11-18			D	72019	8.78		1		S	

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status
1998-01-13	D	62610	3252.60	NGVD29	1	S	
1998-01-13	D	62611	3254.25	NAVD88	1	S	
1998-01-13	D	72019	13.75		1	S	
2003-01-28	D	62610	3248.60	NGVD29	1	S	USGS
2003-01-28	D	62611	3250.25	NAVD88	1	S	USGS
2003-01-28	D	72019	17.75		1	S	USGS

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
Status	P	Pumping
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=320323104112901&agency_cd=USGS&format=html)



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Page Last Modified: 2023-11-13 15:10:56 EST

0.43 0.36 nadww02

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

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Agency code = usgs
site_no list =

- 320343104110201

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

USGS 320343104110201 26S.27E.08.13230

Eddy County, New Mexico
Latitude 32°03'32.4", Longitude 104°13'03.9" NAD83
Land-surface elevation 3,182.10 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1978-01-03			D 62610		3164.52	NGVD29	1		Z	
1978-01-03			D 62611		3166.18	NAVD88	1		Z	
1978-01-03			D 72019	17.58			1		Z	
1983-01-05			D 62610		3166.54	NGVD29	1		Z	
1983-01-05			D 62611		3168.20	NAVD88	1		Z	
1983-01-05			D 72019	15.56			1		Z	
1987-10-08			D 62610		3167.72	NGVD29	1		Z	
1987-10-08			D 62611		3169.38	NAVD88	1		Z	
1987-10-08			D 72019	14.38			1		Z	
1992-11-04			D 62610		3165.85	NGVD29	1		S	
1992-11-04			D 62611		3167.51	NAVD88	1		S	
1992-11-04			D 72019	16.25			1		S	
1998-01-13			D 62610		3165.45	NGVD29	1		S	
1998-01-13			D 62611		3167.11	NAVD88	1		S	
1998-01-13			D 72019	16.65			1		S	

Date	Time	?	?	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	?
		Water-level date-time accuracy	Parameter code				S
2003-01-28		D	62610	3164.88	NGVD29	1	USGS
2003-01-28		D	62611	3166.54	NAVD88	1	USGS
2003-01-28		D	72019	17.22		1	USGS
2013-01-09	21:45 UTC	m	62610	3173.16	NGVD29	1	USGS
2013-01-09	21:45 UTC	m	62611	3174.82	NAVD88	1	USGS
2013-01-09	21:45 UTC	m	72019	8.94		1	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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URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320343104110201&agency_cd=USGS&format=html)



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0.36 0.29 nadww02



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02588	3	4	3	33	25S	27E	575645	3549575* 

Driller License:	1348	Driller Company:	TAYLOR WATER WELL SERVICE		
Driller Name:					
Drill Start Date:	05/31/1998	Drill Finish Date:	06/03/1998	Plug Date:	
Log File Date:	08/24/1998	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	2 GPM
Casing Size:	5.00	Depth Well:	81 feet	Depth Water:	19 feet

Water Bearing Stratifications:	Top	Bottom	Description
	21	23	Other/Unknown
	52	81	Other/Unknown

Casing Perforations:	Top	Bottom
	53	81

*UTM location was derived from PLSS - see Help

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

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320447104114201

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

USGS 320447104114201 25S.27E.33.34344

Eddy County, New Mexico
Latitude 32°04'47", Longitude 104°11'42" NAD27
Land-surface elevation 3,144 feet above NAVD88
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
1983-02-15		D	62610		3124.21	NGVD29	1	Z		
1983-02-15		D	62611		3125.84	NAVD88	1	Z		
1983-02-15		D	72019	18.16			1	Z		
1987-10-09		D	62610		3128.33	NGVD29	1	Z		
1987-10-09		D	62611		3129.96	NAVD88	1	Z		
1987-10-09		D	72019	14.04			1	Z		
1992-11-20		D	62610		3127.94	NGVD29	P	S		
1992-11-20		D	62611		3129.57	NAVD88	P	S		
1992-11-20		D	72019	14.43			P	S		
1998-01-07		D	62610		3122.07	NGVD29	1	S		
1998-01-07		D	62611		3123.70	NAVD88	1	S		
1998-01-07		D	72019	20.30			1	S		
2003-01-28		D	62610		3120.56	NGVD29	1	S	USGS	
2003-01-28		D	62611		3122.19	NAVD88	1	S	USGS	
2003-01-28		D	72019	21.81			1	S	USGS	

Date	Time	?	?	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	?
		Water-level date-time accuracy	Parameter code				S
2018-01-09	22:08 UTC	m	62610	3124.49	NGVD29	P	V
2018-01-09	22:08 UTC	m	62611	3126.12	NAVD88	P	V
2018-01-09	22:08 UTC	m	72019	17.88		P	V

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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-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?>



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Page Last Modified: 2023-11-13 16:31:54 EST

0.39 0.33 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04573 POD1	3	1	1	11	26S	27E	578524	3547472 
Driller License:		1456	Driller Company:			WHITE DRILLING COMPANY			
Driller Name:		WHITE, JOHNNOWN.IGENER							
Drill Start Date:		10/21/2021	Drill Finish Date:			10/21/2021	Plug Date:		
Log File Date:		11/19/2021	PCW Rcv Date:				Source:		Shallow
Pump Type:			Pipe Discharge Size:				Estimated Yield:		
Casing Size:			Depth Well:			104 feet	Depth Water:		35 feet
Water Bearing Stratifications:				Top	Bottom	Description			
				63	64	Other/Unknown			
				72	87	Sandstone/Gravel/Conglomerate			
				87	104	Limestone/Dolomite/Chalk			

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.

11/13/23 1:09 PM

POINT OF DIVERSION SUMMARY

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

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320409104102001

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

USGS 320409104102001 26S.27E.05.44233

Eddy County, New Mexico
Latitude 32°04'09", Longitude 104°10'20" NAD27
Land-surface elevation 3,245 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measur
1948-12-03			D	62610	3230.90	NGVD29	1	Z		
1948-12-03			D	62611	3232.53	NAVD88	1	Z		
1948-12-03			D	72019	12.47		1	Z		
1978-01-03			D	62610	3229.32	NGVD29	1	Z		
1978-01-03			D	62611	3230.95	NAVD88	1	Z		
1978-01-03			D	72019	14.05		1	Z		
1983-01-25			D	62610	3232.62	NGVD29	1	Z		
1983-01-25			D	62611	3234.25	NAVD88	1	Z		
1983-01-25			D	72019	10.75		1	Z		
1987-10-08			D	62610	3234.24	NGVD29	1	Z		
1987-10-08			D	62611	3235.87	NAVD88	1	Z		
1987-10-08			D	72019	9.13		1	Z		

Explanation

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? S
Parameter code		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		Z	Other.				
Measuring agency			Not determined				
Source of measurement			Not determined				
Water-level approval status		A	Approved for publication -- Processing and review completed.				

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Title: Groundwater for New Mexico: Water Levels
URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320409104102001&agency_cd=USGS&format=html)



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USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

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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	? Status	? Method of measurement	? Measuring agency	? Source measur
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>

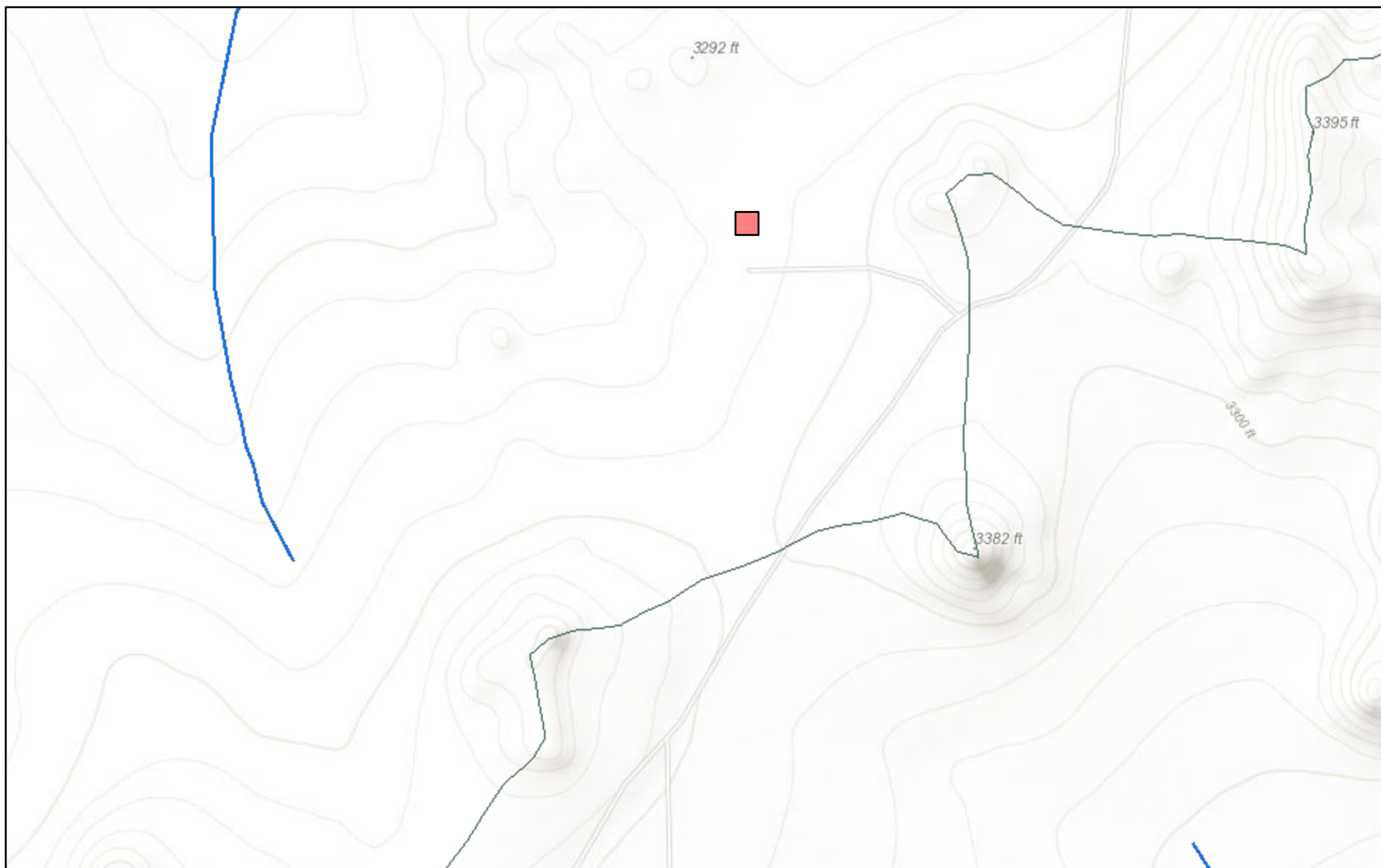


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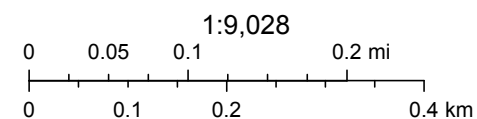
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0.36 0.32 nadww01

New Mexico NFHL Data



November 13, 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 11/16/2023 11:02:45 AM

JOB DESCRIPTION

Cluster State Com
Eddy County, New Mexico

JOB NUMBER

880-35638-1

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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11/16/2023 11:02:45 AM

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

Client: Carmona Resources
Project/Site: Cluster State Com

Laboratory Job ID: 880-35638-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Job ID: 880-35638-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-35638-1**

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

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

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

Receipt

The samples were received on 11/10/2023 1:35 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 3.2°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66753 and 880-66881 and analytical batch 880-66913 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: T-2 (3.0') (880-35638-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-2 (3.0') (880-35638-9) and (880-35638-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-66780 and analytical batch 880-67014 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-66780 and analytical batch 880-67014 was outside control limits. Sample non-homogeneity is suspected.

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: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35638-1

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/14/23 23:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/14/23 23:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/14/23 23:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/14/23 23:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/14/23 23:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/14/23 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	11/10/23 16:35	11/14/23 23:22	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/10/23 16:35	11/14/23 23:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/23 23:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/23 13:30	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 *1 F2	49.9		mg/Kg		11/11/23 21:08	11/15/23 13:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		11/11/23 21:08	11/15/23 13:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/23 21:08	11/15/23 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	11/11/23 21:08	11/15/23 13:30	1
o-Terphenyl	101		70 - 130	11/11/23 21:08	11/15/23 13:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		4.96		mg/Kg			11/15/23 17:51	1

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-35638-2

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 23:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 23:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 23:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/14/23 23:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 23:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/14/23 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/10/23 16:35	11/14/23 23:42	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/10/23 16:35	11/14/23 23:42	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (1.5')

Lab Sample ID: 880-35638-2

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/23 23:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/15/23 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5		mg/Kg		11/11/23 21:08	11/15/23 14:42	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		11/11/23 21:08	11/15/23 14:42	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/11/23 21:08	11/15/23 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/11/23 21:08	11/15/23 14:42	1
o-Terphenyl	89		70 - 130				11/11/23 21:08	11/15/23 14:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		4.95		mg/Kg			11/15/23 17:56	1

Client Sample ID: T-1 (2.0')

Lab Sample ID: 880-35638-3

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 00:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/10/23 16:35	11/15/23 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 00:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/10/23 16:35	11/15/23 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				11/10/23 16:35	11/15/23 00:03	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/10/23 16:35	11/15/23 00:03	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			11/15/23 00:03	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			11/15/23 15:07	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 *1	49.7		mg/Kg		11/11/23 21:08	11/15/23 15:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		11/11/23 21:08	11/15/23 15:07	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (2.0')

Lab Sample ID: 880-35638-3

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/11/23 21:08	11/15/23 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/11/23 21:08	11/15/23 15:07	1
o-Terphenyl	92		70 - 130				11/11/23 21:08	11/15/23 15:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		5.03		mg/Kg			11/15/23 18:02	1

Client Sample ID: T-1 (3.0')

Lab Sample ID: 880-35638-4

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/10/23 16:35	11/15/23 00:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/10/23 16:35	11/15/23 00:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/10/23 16:35	11/15/23 00:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/10/23 16:35	11/15/23 00:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/10/23 16:35	11/15/23 00:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/10/23 16:35	11/15/23 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/10/23 16:35	11/15/23 00:23	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/10/23 16:35	11/15/23 00:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/15/23 00:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			11/15/23 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *1	49.6		mg/Kg		11/11/23 21:08	11/15/23 15:31	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		11/11/23 21:08	11/15/23 15:31	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		11/11/23 21:08	11/15/23 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/11/23 21:08	11/15/23 15:31	1
o-Terphenyl	85		70 - 130				11/11/23 21:08	11/15/23 15:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.0		4.99		mg/Kg			11/15/23 18:07	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (4.0')

Lab Sample ID: 880-35638-5

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 00:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 00:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 00:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 00:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 00:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/10/23 16:35	11/15/23 00:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/10/23 16:35	11/15/23 00:44	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			11/15/23 00:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/23 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/11/23 21:08	11/15/23 15:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		11/11/23 21:08	11/15/23 15:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/23 21:08	11/15/23 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	11/11/23 21:08	11/15/23 15:55	1
o-Terphenyl	76		70 - 130	11/11/23 21:08	11/15/23 15:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.04		mg/Kg			11/15/23 18:13	1

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

Lab Sample ID: 880-35638-6

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 01:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 01:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 01:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/10/23 16:35	11/15/23 01:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 01:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/10/23 16:35	11/15/23 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/10/23 16:35	11/15/23 01:04	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/10/23 16:35	11/15/23 01:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35638-6

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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			11/15/23 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	110		50.3		mg/Kg			11/15/23 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3		mg/Kg		11/11/23 21:08	11/15/23 16:20	1
Diesel Range Organics (Over C10-C28)	110	*1	50.3		mg/Kg		11/11/23 21:08	11/15/23 16:20	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		11/11/23 21:08	11/15/23 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/11/23 21:08	11/15/23 16:20	1
o-Terphenyl	81		70 - 130				11/11/23 21:08	11/15/23 16:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.6		4.96		mg/Kg			11/15/23 18:30	1

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-35638-7

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/23 16:35	11/15/23 01:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/23 16:35	11/15/23 01:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/23 16:35	11/15/23 01:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/23 16:35	11/15/23 01:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/23 16:35	11/15/23 01:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/23 16:35	11/15/23 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/10/23 16:35	11/15/23 01:25	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/10/23 16:35	11/15/23 01:25	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			11/15/23 01:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			11/15/23 16:45	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	<50.1	U *1	50.1		mg/Kg		11/11/23 21:08	11/15/23 16:45	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		11/11/23 21:08	11/15/23 16:45	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-35638-7

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		11/11/23 21:08	11/15/23 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				11/11/23 21:08	11/15/23 16:45	1
o-Terphenyl	100		70 - 130				11/11/23 21:08	11/15/23 16:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.3		5.04		mg/Kg			11/15/23 18:36	1

Client Sample ID: T-2 (2.0')

Lab Sample ID: 880-35638-8

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 01:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 01:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 01:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/15/23 01:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 01:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/15/23 01:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/10/23 16:35	11/15/23 01:45	1
1,4-Difluorobenzene (Surr)	121		70 - 130				11/10/23 16:35	11/15/23 01:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/23 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			11/15/23 17:09	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 *1	50.5		mg/Kg		11/11/23 21:08	11/15/23 17:09	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		11/11/23 21:08	11/15/23 17:09	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		11/11/23 21:08	11/15/23 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				11/11/23 21:08	11/15/23 17:09	1
o-Terphenyl	72		70 - 130				11/11/23 21:08	11/15/23 17:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.7		4.96		mg/Kg			11/15/23 18:53	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (3.0')

Lab Sample ID: 880-35638-9

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 02:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 02:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 02:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/15/23 02:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 02:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/15/23 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	205	S1+	70 - 130	11/10/23 16:35	11/15/23 02:06	1
1,4-Difluorobenzene (Surr)	129		70 - 130	11/10/23 16:35	11/15/23 02:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/23 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/15/23 17:34	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	<50.0	U *1	50.0		mg/Kg		11/11/23 21:08	11/15/23 17:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		11/11/23 21:08	11/15/23 17:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/23 21:08	11/15/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	11/11/23 21:08	11/15/23 17:34	1
o-Terphenyl	60	S1-	70 - 130	11/11/23 21:08	11/15/23 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.9		5.05		mg/Kg			11/15/23 18:59	1

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

Lab Sample ID: 880-35638-10

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 02:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 02:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 02:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 02:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 02:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/10/23 16:35	11/15/23 02:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/10/23 16:35	11/15/23 02:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35638-10

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/15/23 02:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/23 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/11/23 21:08	11/15/23 17:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		11/11/23 21:08	11/15/23 17:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/23 21:08	11/15/23 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/11/23 21:08	11/15/23 17:58	1
o-Terphenyl	90		70 - 130				11/11/23 21:08	11/15/23 17:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.6		5.03		mg/Kg			11/15/23 19:04	1

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-35638-11

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/23 16:35	11/15/23 05:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/23 16:35	11/15/23 05:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/23 16:35	11/15/23 05:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/23 16:35	11/15/23 05:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/23 16:35	11/15/23 05:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/23 16:35	11/15/23 05:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				11/10/23 16:35	11/15/23 05:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/10/23 16:35	11/15/23 05:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/15/23 05:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/15/23 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		11/11/23 21:08	11/15/23 18:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		11/11/23 21:08	11/15/23 18:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-35638-11

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/11/23 21:08	11/15/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				11/11/23 21:08	11/15/23 18:47	1
o-Terphenyl	102		70 - 130				11/11/23 21:08	11/15/23 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		5.04		mg/Kg			11/15/23 19:10	1

Client Sample ID: T-3 (2.0')

Lab Sample ID: 880-35638-12

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 05:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 05:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 05:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 05:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 05:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				11/10/23 16:35	11/15/23 05:39	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/10/23 16:35	11/15/23 05:39	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			11/15/23 05:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/23 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/11/23 21:08	11/15/23 19:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		11/11/23 21:08	11/15/23 19:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/23 21:08	11/15/23 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/11/23 21:08	11/15/23 19:12	1
o-Terphenyl	83		70 - 130				11/11/23 21:08	11/15/23 19:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.1		4.97		mg/Kg			11/15/23 19:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (3.0')

Lab Sample ID: 880-35638-13

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 06:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 06:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 06:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 06:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/15/23 06:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/23 16:35	11/15/23 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	11/10/23 16:35	11/15/23 06:00	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/10/23 16:35	11/15/23 06:00	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			11/15/23 06:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			11/15/23 19:36	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	<50.2	U *1	50.2		mg/Kg		11/11/23 21:08	11/15/23 19:36	1
Diesel Range Organics (Over C10-C28)	<50.2	U *1	50.2		mg/Kg		11/11/23 21:08	11/15/23 19:36	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/11/23 21:08	11/15/23 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	11/11/23 21:08	11/15/23 19:36	1
o-Terphenyl	70		70 - 130	11/11/23 21:08	11/15/23 19:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.0		4.98		mg/Kg			11/15/23 19:21	1

Client Sample ID: T-3 (4.0')

Lab Sample ID: 880-35638-14

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 06:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 06:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 06:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/15/23 06:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/23 16:35	11/15/23 06:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/23 16:35	11/15/23 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/10/23 16:35	11/15/23 06:20	1
1,4-Difluorobenzene (Surr)	111		70 - 130	11/10/23 16:35	11/15/23 06:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (4.0')

Lab Sample ID: 880-35638-14

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/15/23 06:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			11/15/23 20:01	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	<50.4	U *1	50.4		mg/Kg		11/11/23 21:08	11/15/23 20:01	1
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4		mg/Kg		11/11/23 21:08	11/15/23 20:01	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		11/11/23 21:08	11/15/23 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	11/11/23 21:08	11/15/23 20:01	1
o-Terphenyl	81		70 - 130	11/11/23 21:08	11/15/23 20:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.99		mg/Kg			11/15/23 19:27	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
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)
880-35638-1	T-1 (0-1')	91	105
880-35638-1 MS	T-1 (0-1')	109	110
880-35638-1 MSD	T-1 (0-1')	112	114
880-35638-2	T-1 (1.5')	110	101
880-35638-3	T-1 (2.0')	108	103
880-35638-4	T-1 (3.0')	112	102
880-35638-5	T-1 (4.0')	112	103
880-35638-6	T-2 (0-1')	111	110
880-35638-7	T-2 (1.5')	116	109
880-35638-8	T-2 (2.0')	118	121
880-35638-9	T-2 (3.0')	205 S1+	129
880-35638-10	T-3 (0-1')	110	103
880-35638-11	T-3 (1.5')	101	109
880-35638-12	T-3 (2.0')	104	106
880-35638-13	T-3 (3.0')	119	107
880-35638-14	T-3 (4.0')	115	111
LCS 880-66753/1-A	Lab Control Sample	115	105
LCSD 880-66753/2-A	Lab Control Sample Dup	112	104
MB 880-66753/5-A	Method Blank	111	131 S1+
MB 880-66881/5-A	Method Blank	112	135 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-35638-1	T-1 (0-1')	121	101
880-35638-1 MS	T-1 (0-1')	81	61 S1-
880-35638-1 MSD	T-1 (0-1')	116	87
880-35638-2	T-1 (1.5')	106	89
880-35638-3	T-1 (2.0')	107	92
880-35638-4	T-1 (3.0')	102	85
880-35638-5	T-1 (4.0')	90	76
880-35638-6	T-2 (0-1')	100	81
880-35638-7	T-2 (1.5')	117	100
880-35638-8	T-2 (2.0')	85	72
880-35638-9	T-2 (3.0')	72	60 S1-
880-35638-10	T-3 (0-1')	108	90
880-35638-11	T-3 (1.5')	121	102
880-35638-12	T-3 (2.0')	100	83
880-35638-13	T-3 (3.0')	83	70
880-35638-14	T-3 (4.0')	95	81
LCS 880-66780/2-A	Lab Control Sample	75	75
LCSD 880-66780/3-A	Lab Control Sample Dup	103	106
MB 880-66780/1-A	Method Blank	122	110

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Surrogate Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66753/5-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/23 16:35	11/14/23 22:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/23 16:35	11/14/23 22:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/10/23 16:35	11/14/23 22:53	1
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130	11/10/23 16:35	11/14/23 22:53	1

Lab Sample ID: LCS 880-66753/1-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1138		mg/Kg		114	70 - 130
Toluene	0.100	0.09427		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09951		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2194		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1062		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-66753/2-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66753

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1126		mg/Kg		113	70 - 130	1	35
Toluene	0.100	0.09444		mg/Kg		94	70 - 130	0	35
Ethylbenzene	0.100	0.09635		mg/Kg		96	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2182		mg/Kg		109	70 - 130	1	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-35638-1 MS

Matrix: Solid

Analysis Batch: 66913

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

Prep Type: Total/NA

Prep Batch: 66753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1110		mg/Kg		111	70 - 130
Toluene	<0.00199	U	0.0996	0.09018		mg/Kg		91	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35638-1 MS
Matrix: Solid
Analysis Batch: 66913

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 66753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.08665		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1951		mg/Kg		98	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09336		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	110		70 - 130						

Lab Sample ID: 880-35638-1 MSD
Matrix: Solid
Analysis Batch: 66913

Client Sample ID: T-1 (0-1')
Prep Type: Total/NA
Prep Batch: 66753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1070		mg/Kg		108	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.08728		mg/Kg		88	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.0990	0.08454		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2006		mg/Kg		101	70 - 130	3	35
o-Xylene	<0.00199	U	0.0990	0.09591		mg/Kg		97	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	114		70 - 130								

Lab Sample ID: MB 880-66881/5-A
Matrix: Solid
Analysis Batch: 66913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits						
4-Bromofluorobenzene (Surr)	112		70 - 130						
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130						

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

Lab Sample ID: MB 880-66780/1-A
Matrix: Solid
Analysis Batch: 67014

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/23 21:08	11/15/23 10:41	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-66780/1-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66780

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/23 21:08	11/15/23 10:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/23 21:08	11/15/23 10:41	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	122		70 - 130				11/11/23 21:08	11/15/23 10:41	1
o-Terphenyl	110		70 - 130				11/11/23 21:08	11/15/23 10:41	1

Lab Sample ID: LCS 880-66780/2-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	918.6		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	822.9		mg/Kg		82	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	75		70 - 130						
o-Terphenyl	75		70 - 130						

Lab Sample ID: LCSD 880-66780/3-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66780

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1162	*1	mg/Kg		116	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	1027	*1	mg/Kg		103	70 - 130	22	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 880-35638-1 MS

Matrix: Solid

Analysis Batch: 67014

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

Prep Type: Total/NA

Prep Batch: 66780

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 F2	1000	955.2		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	827.6		mg/Kg		79	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	81		70 - 130								
o-Terphenyl	61	S1-	70 - 130								

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35638-1 MSD

Matrix: Solid

Analysis Batch: 67014

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

Prep Type: Total/NA

Prep Batch: 66780

	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 *1 F2	1000	1227	F2	mg/Kg		120	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	1006		mg/Kg		96	70 - 130	19	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	116		70 - 130								
o-Terphenyl	87		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66921/1-A

Matrix: Solid

Analysis Batch: 67060

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			11/15/23 16:37	1

Lab Sample ID: LCS 880-66921/2-A

Matrix: Solid

Analysis Batch: 67060

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-66921/3-A

Matrix: Solid

Analysis Batch: 67060

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

				Spike	LCS	LCS				%Rec	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Chloride				250	251.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-35638-5 MS

Matrix: Solid

Analysis Batch: 67060

Client Sample ID: T-1 (4.0')

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Chloride	214		252	465.1		mg/Kg		100		90 - 110

Lab Sample ID: 880-35638-5 MSD

Matrix: Solid

Analysis Batch: 67060

Client Sample ID: T-1 (4.0')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride	214		252	463.9		mg/Kg		99	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 66753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-1	T-1 (0-1')	Total/NA	Solid	5035	
880-35638-2	T-1 (1.5')	Total/NA	Solid	5035	
880-35638-3	T-1 (2.0')	Total/NA	Solid	5035	
880-35638-4	T-1 (3.0')	Total/NA	Solid	5035	
880-35638-5	T-1 (4.0')	Total/NA	Solid	5035	
880-35638-6	T-2 (0-1')	Total/NA	Solid	5035	
880-35638-7	T-2 (1.5')	Total/NA	Solid	5035	
880-35638-8	T-2 (2.0')	Total/NA	Solid	5035	
880-35638-9	T-2 (3.0')	Total/NA	Solid	5035	
880-35638-10	T-3 (0-1')	Total/NA	Solid	5035	
880-35638-11	T-3 (1.5')	Total/NA	Solid	5035	
880-35638-12	T-3 (2.0')	Total/NA	Solid	5035	
880-35638-13	T-3 (3.0')	Total/NA	Solid	5035	
880-35638-14	T-3 (4.0')	Total/NA	Solid	5035	
MB 880-66753/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66753/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66753/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35638-1 MS	T-1 (0-1')	Total/NA	Solid	5035	
880-35638-1 MSD	T-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 66881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-66881/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 66913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-1	T-1 (0-1')	Total/NA	Solid	8021B	66753
880-35638-2	T-1 (1.5')	Total/NA	Solid	8021B	66753
880-35638-3	T-1 (2.0')	Total/NA	Solid	8021B	66753
880-35638-4	T-1 (3.0')	Total/NA	Solid	8021B	66753
880-35638-5	T-1 (4.0')	Total/NA	Solid	8021B	66753
880-35638-6	T-2 (0-1')	Total/NA	Solid	8021B	66753
880-35638-7	T-2 (1.5')	Total/NA	Solid	8021B	66753
880-35638-8	T-2 (2.0')	Total/NA	Solid	8021B	66753
880-35638-9	T-2 (3.0')	Total/NA	Solid	8021B	66753
880-35638-10	T-3 (0-1')	Total/NA	Solid	8021B	66753
880-35638-11	T-3 (1.5')	Total/NA	Solid	8021B	66753
880-35638-12	T-3 (2.0')	Total/NA	Solid	8021B	66753
880-35638-13	T-3 (3.0')	Total/NA	Solid	8021B	66753
880-35638-14	T-3 (4.0')	Total/NA	Solid	8021B	66753
MB 880-66753/5-A	Method Blank	Total/NA	Solid	8021B	66753
MB 880-66881/5-A	Method Blank	Total/NA	Solid	8021B	66881
LCS 880-66753/1-A	Lab Control Sample	Total/NA	Solid	8021B	66753
LCSD 880-66753/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66753
880-35638-1 MS	T-1 (0-1')	Total/NA	Solid	8021B	66753
880-35638-1 MSD	T-1 (0-1')	Total/NA	Solid	8021B	66753

Analysis Batch: 67120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-35638-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 67120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-3	T-1 (2.0')	Total/NA	Solid	Total BTEX	
880-35638-4	T-1 (3.0')	Total/NA	Solid	Total BTEX	
880-35638-5	T-1 (4.0')	Total/NA	Solid	Total BTEX	
880-35638-6	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-35638-7	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-35638-8	T-2 (2.0')	Total/NA	Solid	Total BTEX	
880-35638-9	T-2 (3.0')	Total/NA	Solid	Total BTEX	
880-35638-10	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-35638-11	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-35638-12	T-3 (2.0')	Total/NA	Solid	Total BTEX	
880-35638-13	T-3 (3.0')	Total/NA	Solid	Total BTEX	
880-35638-14	T-3 (4.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-35638-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-35638-3	T-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-35638-4	T-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-35638-5	T-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-35638-6	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-35638-7	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-35638-8	T-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-35638-9	T-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-35638-10	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-35638-11	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-35638-12	T-3 (2.0')	Total/NA	Solid	8015NM Prep	
880-35638-13	T-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-35638-14	T-3 (4.0')	Total/NA	Solid	8015NM Prep	
MB 880-66780/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66780/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-66780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35638-1 MS	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-35638-1 MSD	T-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-1	T-1 (0-1')	Total/NA	Solid	8015B NM	66780
880-35638-2	T-1 (1.5')	Total/NA	Solid	8015B NM	66780
880-35638-3	T-1 (2.0')	Total/NA	Solid	8015B NM	66780
880-35638-4	T-1 (3.0')	Total/NA	Solid	8015B NM	66780
880-35638-5	T-1 (4.0')	Total/NA	Solid	8015B NM	66780
880-35638-6	T-2 (0-1')	Total/NA	Solid	8015B NM	66780
880-35638-7	T-2 (1.5')	Total/NA	Solid	8015B NM	66780
880-35638-8	T-2 (2.0')	Total/NA	Solid	8015B NM	66780
880-35638-9	T-2 (3.0')	Total/NA	Solid	8015B NM	66780
880-35638-10	T-3 (0-1')	Total/NA	Solid	8015B NM	66780
880-35638-11	T-3 (1.5')	Total/NA	Solid	8015B NM	66780
880-35638-12	T-3 (2.0')	Total/NA	Solid	8015B NM	66780

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 67014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-13	T-3 (3.0')	Total/NA	Solid	8015B NM	66780
880-35638-14	T-3 (4.0')	Total/NA	Solid	8015B NM	66780
MB 880-66780/1-A	Method Blank	Total/NA	Solid	8015B NM	66780
LCS 880-66780/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66780
LCSD 880-66780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66780
880-35638-1 MS	T-1 (0-1')	Total/NA	Solid	8015B NM	66780
880-35638-1 MSD	T-1 (0-1')	Total/NA	Solid	8015B NM	66780

Analysis Batch: 67186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-35638-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-35638-3	T-1 (2.0')	Total/NA	Solid	8015 NM	
880-35638-4	T-1 (3.0')	Total/NA	Solid	8015 NM	
880-35638-5	T-1 (4.0')	Total/NA	Solid	8015 NM	
880-35638-6	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-35638-7	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-35638-8	T-2 (2.0')	Total/NA	Solid	8015 NM	
880-35638-9	T-2 (3.0')	Total/NA	Solid	8015 NM	
880-35638-10	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-35638-11	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-35638-12	T-3 (2.0')	Total/NA	Solid	8015 NM	
880-35638-13	T-3 (3.0')	Total/NA	Solid	8015 NM	
880-35638-14	T-3 (4.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-35638-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-35638-3	T-1 (2.0')	Soluble	Solid	DI Leach	
880-35638-4	T-1 (3.0')	Soluble	Solid	DI Leach	
880-35638-5	T-1 (4.0')	Soluble	Solid	DI Leach	
880-35638-6	T-2 (0-1')	Soluble	Solid	DI Leach	
880-35638-7	T-2 (1.5')	Soluble	Solid	DI Leach	
880-35638-8	T-2 (2.0')	Soluble	Solid	DI Leach	
880-35638-9	T-2 (3.0')	Soluble	Solid	DI Leach	
880-35638-10	T-3 (0-1')	Soluble	Solid	DI Leach	
880-35638-11	T-3 (1.5')	Soluble	Solid	DI Leach	
880-35638-12	T-3 (2.0')	Soluble	Solid	DI Leach	
880-35638-13	T-3 (3.0')	Soluble	Solid	DI Leach	
880-35638-14	T-3 (4.0')	Soluble	Solid	DI Leach	
MB 880-66921/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66921/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66921/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35638-5 MS	T-1 (4.0')	Soluble	Solid	DI Leach	
880-35638-5 MSD	T-1 (4.0')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 67060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35638-1	T-1 (0-1')	Soluble	Solid	300.0	66921
880-35638-2	T-1 (1.5')	Soluble	Solid	300.0	66921
880-35638-3	T-1 (2.0')	Soluble	Solid	300.0	66921
880-35638-4	T-1 (3.0')	Soluble	Solid	300.0	66921
880-35638-5	T-1 (4.0')	Soluble	Solid	300.0	66921
880-35638-6	T-2 (0-1')	Soluble	Solid	300.0	66921
880-35638-7	T-2 (1.5')	Soluble	Solid	300.0	66921
880-35638-8	T-2 (2.0')	Soluble	Solid	300.0	66921
880-35638-9	T-2 (3.0')	Soluble	Solid	300.0	66921
880-35638-10	T-3 (0-1')	Soluble	Solid	300.0	66921
880-35638-11	T-3 (1.5')	Soluble	Solid	300.0	66921
880-35638-12	T-3 (2.0')	Soluble	Solid	300.0	66921
880-35638-13	T-3 (3.0')	Soluble	Solid	300.0	66921
880-35638-14	T-3 (4.0')	Soluble	Solid	300.0	66921
MB 880-66921/1-A	Method Blank	Soluble	Solid	300.0	66921
LCS 880-66921/2-A	Lab Control Sample	Soluble	Solid	300.0	66921
LCSD 880-66921/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66921
880-35638-5 MS	T-1 (4.0')	Soluble	Solid	300.0	66921
880-35638-5 MSD	T-1 (4.0')	Soluble	Solid	300.0	66921

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (0-1')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 23:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/14/23 23:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 13:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 17:51	SMC	EET MID

Client Sample ID: T-1 (1.5')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/14/23 23:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 14:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 14:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 17:56	SMC	EET MID

Client Sample ID: T-1 (2.0')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 00:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 00:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 15:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 15:07	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 18:02	SMC	EET MID

Client Sample ID: T-1 (3.0')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 00:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 00:23	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-1 (3.0')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67186	11/15/23 15:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 15:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 18:07	SMC	EET MID

Client Sample ID: T-1 (4.0')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 00:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 00:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 15:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 15:55	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 18:13	SMC	EET MID

Client Sample ID: T-2 (0-1')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 01:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 01:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 16:20	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 18:30	SMC	EET MID

Client Sample ID: T-2 (1.5')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 01:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 01:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 16:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 16:45	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-2 (1.5')

Lab Sample ID: 880-35638-7

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 18:36	SMC	EET MID

Client Sample ID: T-2 (2.0')

Lab Sample ID: 880-35638-8

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 01:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 01:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 17:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 17:09	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 18:53	SMC	EET MID

Client Sample ID: T-2 (3.0')

Lab Sample ID: 880-35638-9

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 02:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 02:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 18:59	SMC	EET MID

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

Lab Sample ID: 880-35638-10

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 02:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 02:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 17:58	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 19:04	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (1.5')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 05:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 05:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 18:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 18:47	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 19:10	SMC	EET MID

Client Sample ID: T-3 (2.0')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 05:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 05:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 19:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 19:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 19:15	SMC	EET MID

Client Sample ID: T-3 (3.0')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 06:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 06:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			67186	11/15/23 19:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 19:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 19:21	SMC	EET MID

Client Sample ID: T-3 (4.0')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	66753	11/10/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/15/23 06:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67120	11/15/23 06:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Client Sample ID: T-3 (4.0')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35638-14
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			67186	11/15/23 20:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 20:01	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 19:27	SMC	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35638-1
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: Cluster State Com

Job ID: 880-35638-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35638-1	T-1 (0-1')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-2	T-1 (1.5')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-3	T-1 (2.0')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-4	T-1 (3.0')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-5	T-1 (4.0')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-6	T-2 (0-1')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-7	T-2 (1.5')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-8	T-2 (2.0')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-9	T-2 (3.0')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-10	T-3 (0-1')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-11	T-3 (1.5')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-12	T-3 (2.0')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-13	T-3 (3.0')	Solid	11/09/23 00:00	11/10/23 13:35
880-35638-14	T-3 (4.0')	Solid	11/09/23 00:00	11/10/23 13:35



WOT



880-35638 Chain of Custody

Page 1 of 2

Project Manager	Conner Moehring	Bill to: (if different)	Brandon Steen
Company Name	Carmona Resources	Company Name	Standard Safety & Supply
Address	310 W Wall St Ste 500	Address	2524 Trunk St
City State ZIP	Midland, TX 79701	City, State ZIP	Odessa Texas 79761
Phone	432-813-6823	Email	brandon.steen@standardrx.com

Work Order Comments Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☒ Refund ☐ State of Project: _____ Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐ Deliverables EDD ☐ ADAPT ☐ Other _____			
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[illegible]

Comments: Email to Mike Carmona: Mcarmona@carmonaresources.com and Conner Moehring / CMoehring@carmonaresources.com and Brandon Steen @ brandon.steen@standardtx.com

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	11-10-23		11-10-23
			1335

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Loc: 880
35638

Project Manager	Conner Moehring	Bill to: (if different)	Brandon Sleen
Company Name	Carmona Resources	Company Name	Standard Safety & Supply
Address	310 W Wall St Ste 500	Address	2524 Trunk St
City, State ZIP	Midland, TX 79701	City, State ZIP	Odessa Texas 79761
Phone	432-813-6823	Email	brandon.sleen@standardtx.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Crownfields ☐ RC ☐ perfund ☐

State of Project:

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

Deliverables EDD ☐ ADAPT ☐ Other

[illegible]

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com and Brandon Steen @ brandon.steen@standardix.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
			
	10-10-23		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35638-1

SDG Number: Eddy County, New Mexico

Login Number: 35638

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 11/16/2023 11:01:49 AM

JOB DESCRIPTION

Cluster State Com
Eddy County, New Mexico

JOB NUMBER

880-35637-1

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
11/16/2023 11:01:49 AM

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

Client: Carmona Resources
Project/Site: Cluster State Com

Laboratory Job ID: 880-35637-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

Job ID: 880-35637-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-35637-1**

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

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

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

Receipt

The samples were received on 11/10/2023 1:35 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 3.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-35637-1), H-2 (0-0.5') (880-35637-2), H-3 (0-0.5') (880-35637-3) and H-4 (0-0.5') (880-35637-4).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66881 and analytical batch 880-66913 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-35638-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-66780 and analytical batch 880-67014 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-66780 and analytical batch 880-67014 was outside control limits. Sample non-homogeneity is suspected.

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: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35637-1

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/13/23 16:38	11/14/23 17:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/13/23 16:38	11/14/23 17:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/13/23 16:38	11/14/23 17:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/13/23 16:38	11/14/23 17:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/13/23 16:38	11/14/23 17:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/13/23 16:38	11/14/23 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/13/23 16:38	11/14/23 17:18	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/13/23 16:38	11/14/23 17:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/23 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	141		49.7		mg/Kg			11/15/23 21:14	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	<49.7	U *1	49.7		mg/Kg		11/11/23 21:08	11/15/23 21:14	1
Diesel Range Organics (Over C10-C28)	141	*1	49.7		mg/Kg		11/11/23 21:08	11/15/23 21:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/11/23 21:08	11/15/23 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	11/11/23 21:08	11/15/23 21:14	1
o-Terphenyl	73		70 - 130	11/11/23 21:08	11/15/23 21:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.4		4.95		mg/Kg			11/15/23 17:17	1

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

Lab Sample ID: 880-35637-2

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 17:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/13/23 16:38	11/14/23 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 17:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/13/23 16:38	11/14/23 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/13/23 16:38	11/14/23 17:39	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/13/23 16:38	11/14/23 17:39	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35637-2

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/23 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/15/23 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/11/23 21:08	11/15/23 21:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		11/11/23 21:08	11/15/23 21:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/11/23 21:08	11/15/23 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/11/23 21:08	11/15/23 21:38	1
o-Terphenyl	82		70 - 130				11/11/23 21:08	11/15/23 21:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.8		5.05		mg/Kg			11/15/23 17:22	1

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

Lab Sample ID: 880-35637-3

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/13/23 16:38	11/14/23 17:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/13/23 16:38	11/14/23 17:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/13/23 16:38	11/14/23 17:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/13/23 16:38	11/14/23 17:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/13/23 16:38	11/14/23 17:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/13/23 16:38	11/14/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/13/23 16:38	11/14/23 17:59	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/13/23 16:38	11/14/23 17:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/23 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			11/15/23 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *1	50.2		mg/Kg		11/11/23 21:08	11/15/23 22:03	1
Diesel Range Organics (Over C10-C28)	<50.2	U *1	50.2		mg/Kg		11/11/23 21:08	11/15/23 22:03	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35637-3

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/11/23 21:08	11/15/23 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/11/23 21:08	11/15/23 22:03	1
o-Terphenyl	72		70 - 130				11/11/23 21:08	11/15/23 22:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.9		5.05		mg/Kg			11/15/23 17:28	1

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

Lab Sample ID: 880-35637-4

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 18:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 18:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 18:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/13/23 16:38	11/14/23 18:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 18:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/13/23 16:38	11/14/23 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				11/13/23 16:38	11/14/23 18:20	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/13/23 16:38	11/14/23 18:20	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			11/14/23 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			11/15/23 22:27	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	<50.2	U *1	50.2		mg/Kg		11/11/23 21:08	11/15/23 22:27	1
Diesel Range Organics (Over C10-C28)	<50.2	U *1	50.2		mg/Kg		11/11/23 21:08	11/15/23 22:27	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		11/11/23 21:08	11/15/23 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				11/11/23 21:08	11/15/23 22:27	1
o-Terphenyl	70		70 - 130				11/11/23 21:08	11/15/23 22:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9		4.96		mg/Kg			11/15/23 17:45	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
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)
880-35637-1	H-1 (0-0.5')	109	104
880-35637-2	H-2 (0-0.5')	111	110
880-35637-3	H-3 (0-0.5')	112	114
880-35637-4	H-4 (0-0.5')	113	111
880-35641-A-1-B MS	Matrix Spike	115	97
880-35641-A-1-C MSD	Matrix Spike Duplicate	115	104
LCS 880-66881/1-A	Lab Control Sample	95	108
LCSD 880-66881/2-A	Lab Control Sample Dup	111	103
MB 880-66881/5-A	Method Blank	112	135 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-35637-1	H-1 (0-0.5')	91	73
880-35637-2	H-2 (0-0.5')	100	82
880-35637-3	H-3 (0-0.5')	88	72
880-35637-4	H-4 (0-0.5')	85	70
880-35638-A-1-E MS	Matrix Spike	81	61 S1-
880-35638-A-1-F MSD	Matrix Spike Duplicate	116	87
LCS 880-66780/2-A	Lab Control Sample	75	75
LCSD 880-66780/3-A	Lab Control Sample Dup	103	106
MB 880-66780/1-A	Method Blank	122	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66881/5-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/13/23 16:38	11/14/23 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/13/23 16:38	11/14/23 11:12	1
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130	11/13/23 16:38	11/14/23 11:12	1

Lab Sample ID: LCS 880-66881/1-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1140		mg/Kg		114	70 - 130
Toluene	0.100	0.09230		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09192		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1983		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09426		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-66881/2-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1145		mg/Kg		114	70 - 130	0	35
Toluene	0.100	0.09680		mg/Kg		97	70 - 130	5	35
Ethylbenzene	0.100	0.09971		mg/Kg		100	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2383		mg/Kg		119	70 - 130	18	35
o-Xylene	0.100	0.1132		mg/Kg		113	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-35641-A-1-B MS

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.09459		mg/Kg		95	70 - 130
Toluene	<0.00199	U	0.100	0.09345		mg/Kg		93	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35641-A-1-B MS

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.100	0.08736		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2067		mg/Kg		103	70 - 130
o-Xylene	<0.00199	U	0.100	0.1092		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-35641-A-1-C MSD

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09122		mg/Kg		92	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.07869		mg/Kg		79	70 - 130	17	35
Ethylbenzene	<0.00199	U	0.0990	0.07880		mg/Kg		80	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1950		mg/Kg		98	70 - 130	6	35
o-Xylene	<0.00199	U	0.0990	0.09467		mg/Kg		95	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-66780/1-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/11/23 21:08	11/15/23 10:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/11/23 21:08	11/15/23 10:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/11/23 21:08	11/15/23 10:41	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	11/11/23 21:08	11/15/23 10:41	1
o-Terphenyl	110		70 - 130	11/11/23 21:08	11/15/23 10:41	1

Lab Sample ID: LCS 880-66780/2-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	918.6		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	822.9		mg/Kg		82	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-66780/2-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66780

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: LCSD 880-66780/3-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66780

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1162	*1	mg/Kg		116	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	1027	*1	mg/Kg		103	70 - 130	22	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-35638-A-1-E MS

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66780

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 *1 F2	1000	955.2		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	827.6		mg/Kg		79	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	61	S1-	70 - 130

Lab Sample ID: 880-35638-A-1-F MSD

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66780

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 *1 F2	1000	1227	F2	mg/Kg		120	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	1006		mg/Kg		96	70 - 130	19	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	87		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66921/1-A Matrix: Solid Analysis Batch: 67060										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			11/15/23 16:37	1		

Lab Sample ID: LCS 880-66921/2-A Matrix: Solid Analysis Batch: 67060										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.8		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-66921/3-A Matrix: Solid Analysis Batch: 67060										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	251.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-35638-A-5-D MS Matrix: Solid Analysis Batch: 67060										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	214		252	465.1		mg/Kg		100	90 - 110		

Lab Sample ID: 880-35638-A-5-E MSD Matrix: Solid Analysis Batch: 67060										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	214		252	463.9		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 66881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35637-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-35637-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-35637-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-35637-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-66881/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66881/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66881/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35641-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-35641-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35637-1	H-1 (0-0.5')	Total/NA	Solid	8021B	66881
880-35637-2	H-2 (0-0.5')	Total/NA	Solid	8021B	66881
880-35637-3	H-3 (0-0.5')	Total/NA	Solid	8021B	66881
880-35637-4	H-4 (0-0.5')	Total/NA	Solid	8021B	66881
MB 880-66881/5-A	Method Blank	Total/NA	Solid	8021B	66881
LCS 880-66881/1-A	Lab Control Sample	Total/NA	Solid	8021B	66881
LCSD 880-66881/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66881
880-35641-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	66881
880-35641-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66881

Analysis Batch: 67118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35637-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35637-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35637-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-35637-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35637-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-35637-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-35637-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-35637-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-66780/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66780/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35638-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-35638-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35637-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	66780
880-35637-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	66780
880-35637-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	66780
880-35637-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	66780
MB 880-66780/1-A	Method Blank	Total/NA	Solid	8015B NM	66780
LCS 880-66780/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66780

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QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 67014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-66780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66780
880-35638-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	66780
880-35638-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	66780

Analysis Batch: 67187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35637-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-35637-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-35637-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-35637-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35637-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-35637-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-35637-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-35637-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-66921/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66921/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66921/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-35638-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-35638-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 67060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-35637-1	H-1 (0-0.5')	Soluble	Solid	300.0	66921
880-35637-2	H-2 (0-0.5')	Soluble	Solid	300.0	66921
880-35637-3	H-3 (0-0.5')	Soluble	Solid	300.0	66921
880-35637-4	H-4 (0-0.5')	Soluble	Solid	300.0	66921
MB 880-66921/1-A	Method Blank	Soluble	Solid	300.0	66921
LCS 880-66921/2-A	Lab Control Sample	Soluble	Solid	300.0	66921
LCSD 880-66921/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66921
880-35638-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	66921
880-35638-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	66921

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-35637-1

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	66881	11/13/23 16:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 17:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67118	11/14/23 17:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			67187	11/15/23 21:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 21:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 17:17	SMC	EET MID

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

Lab Sample ID: 880-35637-2

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66881	11/13/23 16:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67118	11/14/23 17:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			67187	11/15/23 21:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 21:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 17:22	SMC	EET MID

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

Lab Sample ID: 880-35637-3

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	66881	11/13/23 16:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 17:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67118	11/14/23 17:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			67187	11/15/23 22:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 22:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 17:28	SMC	EET MID

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

Lab Sample ID: 880-35637-4

Date Collected: 11/09/23 00:00

Matrix: Solid

Date Received: 11/10/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66881	11/13/23 16:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67118	11/14/23 18:20	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 11/09/23 00:00
Date Received: 11/10/23 13:35

Lab Sample ID: 880-35637-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			67187	11/15/23 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	66780	11/11/23 21:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/15/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66921	11/14/23 08:18	SA	EET MID
Soluble	Analysis	300.0		1			67060	11/15/23 17:45	SMC	EET MID

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-35637-1
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: Cluster State Com

Job ID: 880-35637-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-35637-1	H-1 (0-0.5')	Solid	11/09/23 00:00	11/10/23 13:35
880-35637-2	H-2 (0-0.5')	Solid	11/09/23 00:00	11/10/23 13:35
880-35637-3	H-3 (0-0.5')	Solid	11/09/23 00:00	11/10/23 13:35
880-35637-4	H-4 (0-0.5')	Solid	11/09/23 00:00	11/10/23 13:35

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History

Work



880-35637 Chain of Custody

Page 1 of 1

Project Manager		Comer Moehring	Bill to: (if different)	Brandon Steen
Company Name		Carmona Resources	Company Name	Standard Safety & Supply
Address:		310 W Wall St Ste 500	Address:	2524 Trunk St
City, State ZIP		Midland TX 79701	City State ZIP:	Odessa Texas 79761
Phone		432-813-6823	Email	brandon.steen@standardtx.com

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

[illegible]

Comments: Email to Mike Carmona / Micarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com and Brandon Steen @ brandon.steen@standardtx.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
			
	11-10-23		
	1235		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-35637-1

SDG Number: Eddy County, New Mexico

Login Number: 35637

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/7/2023 3:36:32 PM

JOB DESCRIPTION

Cluster State Com
Eddy County, New Mexico

JOB NUMBER

880-36465-1

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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12/7/2023 3:36:32 PM

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

Client: Carmona Resources
Project/Site: Cluster State Com

Laboratory Job ID: 880-36465-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⬆	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: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

Job ID: 880-36465-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-36465-1

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 12/5/2023 2:10 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 -6.7°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-36465-1).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68431 and analytical batch 880-68458 was outside the control 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 880-68525 and analytical batch 880-68451 was outside the upper control limits.

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

HPLC/IC

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

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36465-1

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 20:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 20:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 20:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/06/23 20:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 20:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/06/23 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				12/05/23 14:49	12/06/23 20:53	1
1,4-Difluorobenzene (Surr)	86		70 - 130				12/05/23 14:49	12/06/23 20:53	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			12/06/23 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			12/06/23 22:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		12/06/23 14:05	12/06/23 22:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/06/23 14:05	12/06/23 22:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/06/23 14:05	12/06/23 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				12/06/23 14:05	12/06/23 22:12	1
o-Terphenyl	107		70 - 130				12/06/23 14:05	12/06/23 22:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		4.98		mg/Kg			12/06/23 09:10	1

Eurofins Midland

Surrogate Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
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)
880-36465-1	H-1 (0-0.5')	98	86
880-36465-1 MS	H-1 (0-0.5')	125	85
880-36465-1 MSD	H-1 (0-0.5')	129	100
LCS 880-68431/1-A	Lab Control Sample	125	86
LCSD 880-68431/2-A	Lab Control Sample Dup	118	78
MB 880-68431/5-A	Method Blank	68 S1-	84
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)
880-36465-1	H-1 (0-0.5')	97	107
880-36465-1 MS	H-1 (0-0.5')	101	102
880-36465-1 MSD	H-1 (0-0.5')	110	110
LCS 880-68525/2-A	Lab Control Sample	93	108
LCSD 880-68525/3-A	Lab Control Sample Dup	106	122
MB 880-68525/1-A	Method Blank	144 S1+	174 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68431/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 68458							Prep Batch: 68431		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130				12/05/23 14:49	12/06/23 20:27	1
1,4-Difluorobenzene (Surr)	84		70 - 130				12/05/23 14:49	12/06/23 20:27	1

Lab Sample ID: LCS 880-68431/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 68458							Prep Batch: 68431		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1047		mg/Kg		105	70 - 130	
Toluene		0.100	0.1155		mg/Kg		115	70 - 130	
Ethylbenzene		0.100	0.1086		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene		0.200	0.2082		mg/Kg		104	70 - 130	
o-Xylene		0.100	0.1059		mg/Kg		106	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	125		70 - 130						
1,4-Difluorobenzene (Surr)	86		70 - 130						

Lab Sample ID: LCSD 880-68431/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 68458							Prep Batch: 68431			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.08813		mg/Kg		88	70 - 130	17	35
Toluene		0.100	0.09544		mg/Kg		95	70 - 130	19	35
Ethylbenzene		0.100	0.09876		mg/Kg		99	70 - 130	9	35
m-Xylene & p-Xylene		0.200	0.1878		mg/Kg		94	70 - 130	10	35
o-Xylene		0.100	0.09950		mg/Kg		99	70 - 130	6	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	118		70 - 130							
1,4-Difluorobenzene (Surr)	78		70 - 130							

Lab Sample ID: 880-36465-1 MS							Client Sample ID: H-1 (0-0.5')		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 68458							Prep Batch: 68431		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08676		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.09191		mg/Kg		92	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36465-1 MS
Matrix: Solid
Analysis Batch: 68458

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 68431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.08778		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1667		mg/Kg		84	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09252		mg/Kg		92	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	125		70 - 130						
1,4-Difluorobenzene (Surr)	85		70 - 130						

Lab Sample ID: 880-36465-1 MSD
Matrix: Solid
Analysis Batch: 68458

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 68431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08493		mg/Kg		85	70 - 130	2	35
Toluene	<0.00199	U	0.0990	0.08398		mg/Kg		85	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.0990	0.09483		mg/Kg		96	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1870		mg/Kg		94	70 - 130	11	35
o-Xylene	<0.00199	U	0.0990	0.09821		mg/Kg		98	70 - 130	6	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	129		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

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

Lab Sample ID: MB 880-68525/1-A
Matrix: Solid
Analysis Batch: 68451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68525

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		12/06/23 14:04	12/06/23 21:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 14:04	12/06/23 21:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 14:04	12/06/23 21:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	144	S1+	70 - 130						
o-Terphenyl	174	S1+	70 - 130						

Lab Sample ID: LCS 880-68525/2-A
Matrix: Solid
Analysis Batch: 68451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	959.2		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	816.6		mg/Kg		82	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-68525/2-A

Matrix: Solid

Analysis Batch: 68451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68525

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-68525/3-A

Matrix: Solid

Analysis Batch: 68451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	946.2		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	788.2		mg/Kg		79	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 880-36465-1 MS

Matrix: Solid

Analysis Batch: 68451

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

Prep Type: Total/NA

Prep Batch: 68525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	995	851.9		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	995	842.1		mg/Kg		81	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-36465-1 MSD

Matrix: Solid

Analysis Batch: 68451

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

Prep Type: Total/NA

Prep Batch: 68525

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	<50.1	U	995	925.1		mg/Kg		88	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.1	U	995	921.6		mg/Kg		89	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	110		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68432/1-A Matrix: Solid Analysis Batch: 68441										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			12/06/23 07:19	1		

Lab Sample ID: LCS 880-68432/2-A Matrix: Solid Analysis Batch: 68441										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.8		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-68432/3-A Matrix: Solid Analysis Batch: 68441										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	260.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-36465-1 MS Matrix: Solid Analysis Batch: 68441										Client Sample ID: H-1 (0-0.5') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	361		249	592.2		mg/Kg		93	90 - 110		

Lab Sample ID: 880-36465-1 MSD Matrix: Solid Analysis Batch: 68441										Client Sample ID: H-1 (0-0.5') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	361		249	592.8		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 68431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1	H-1 (0-0.5')	Total/NA	Solid	5035	
MB 880-68431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36465-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-36465-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 68458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1	H-1 (0-0.5')	Total/NA	Solid	8021B	68431
MB 880-68431/5-A	Method Blank	Total/NA	Solid	8021B	68431
LCS 880-68431/1-A	Lab Control Sample	Total/NA	Solid	8021B	68431
LCSD 880-68431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68431
880-36465-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	68431
880-36465-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	68431

Analysis Batch: 68486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 68451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	68525
MB 880-68525/1-A	Method Blank	Total/NA	Solid	8015B NM	68525
LCS 880-68525/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68525
LCSD 880-68525/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68525
880-36465-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	68525
880-36465-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	68525

Prep Batch: 68525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-68525/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68525/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68525/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36465-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-36465-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 68603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 68432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-68432/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68432/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68432/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 68432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-36465-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 68441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36465-1	H-1 (0-0.5')	Soluble	Solid	300.0	68432
MB 880-68432/1-A	Method Blank	Soluble	Solid	300.0	68432
LCS 880-68432/2-A	Lab Control Sample	Soluble	Solid	300.0	68432
LCSD 880-68432/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68432
880-36465-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	68432
880-36465-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	68432

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5')
Date Collected: 12/04/23 00:00
Date Received: 12/05/23 14:10

Lab Sample ID: 880-36465-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/06/23 20:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68486	12/06/23 20:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			68603	12/06/23 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	68525	12/06/23 14:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68451	12/06/23 22:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 09:10	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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

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Method Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36465-1
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: Cluster State Com

Job ID: 880-36465-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36465-1	H-1 (0-0.5')	Solid	12/04/23 00:00	12/05/23 14:10

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880-36465 Chain of Custody

Page 1 of 1

Page 1 of 1

Work Order Comments

Program: UST/ST ☐ PRP ☐ Rowfields ☐ RC ☐ perfund ☐

State of Project:

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

Deliverables EDD ☐ ADaPT ☐ Other ☐

Project Manager		Conner Moehring	Bill to: (if different)	Brandon Steen
Company Name		Carmona Resources	Company Name	Standard Safety & Supply
Address		310 W Wall St Site 500	Address	2524 Trunk St
City, State ZIP		Midland, TX 79701	City, State ZIP	Odessa, Texas 79761
Phone:		432-813-6823	Email	brandon.steen@standardix.com

[illegible]

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com and Brandon Steen @ brandon.steen@standardtx.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/5/23 @ 14:10		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-36465-1

SDG Number: Eddy County, New Mexico

Login Number: 36465

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/7/2023 3:36:37 PM

JOB DESCRIPTION

Cluster State Com
Eddy County, New Mexico

JOB NUMBER

880-36466-1

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
12/7/2023 3:36:37 PM

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

Client: Carmona Resources
Project/Site: Cluster State Com

Laboratory Job ID: 880-36466-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Job ID: 880-36466-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-36466-1**

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

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

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

Receipt

The samples were received on 12/5/2023 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (1.5') (880-36466-1), CS-2 (1.5') (880-36466-2), CS-3 (1.5') (880-36466-3), CS-4 (1.5') (880-36466-4), CS-5 (1.5') (880-36466-5), CS-6 (1.5') (880-36466-6), SW-1 (1.5') (880-36466-7), SW-2 (1.5') (880-36466-8), SW-3 (1.5') (880-36466-9) and SW-4 (1.5') (880-36466-10).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68431 and analytical batch 880-68458 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (1.5') (880-36466-1), SW-1 (1.5') (880-36466-7) and SW-4 (1.5') (880-36466-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68436 and analytical batch 880-68368 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (1.5') (880-36466-1), CS-2 (1.5') (880-36466-2), CS-3 (1.5') (880-36466-3), CS-4 (1.5') (880-36466-4), CS-5 (1.5') (880-36466-5), CS-6 (1.5') (880-36466-6), SW-1 (1.5') (880-36466-7), SW-2 (1.5') (880-36466-8), SW-3 (1.5') (880-36466-9), SW-4 (1.5') (880-36466-10), (880-36462-A-1-E), (880-36462-A-1-F MS) and (880-36462-A-1-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68436 and analytical batch 880-68368 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: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-36466-1

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 21:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 21:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 21:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/05/23 14:49	12/06/23 21:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 21:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/05/23 14:49	12/06/23 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	12/05/23 14:49	12/06/23 21:20	1
1,4-Difluorobenzene (Surr)	118		70 - 130	12/05/23 14:49	12/06/23 21:20	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			12/06/23 21:20	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			12/06/23 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/05/23 15:45	12/06/23 00:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/05/23 15:45	12/06/23 00:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/05/23 15:45	12/06/23 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130	12/05/23 15:45	12/06/23 00:59	1
o-Terphenyl	146	S1+	70 - 130	12/05/23 15:45	12/06/23 00:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.1		5.00		mg/Kg			12/06/23 07:39	1

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-36466-2

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 21:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 21:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 21:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/05/23 14:49	12/06/23 21:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 21:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/05/23 14:49	12/06/23 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/05/23 14:49	12/06/23 21:46	1
1,4-Difluorobenzene (Surr)	83		70 - 130	12/05/23 14:49	12/06/23 21:46	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-36466-2

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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			12/06/23 21:46	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			12/06/23 01:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		12/05/23 15:45	12/06/23 01:21	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/05/23 15:45	12/06/23 01:21	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/05/23 15:45	12/06/23 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130				12/05/23 15:45	12/06/23 01:21	1
o-Terphenyl	142	S1+	70 - 130				12/05/23 15:45	12/06/23 01:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		4.95		mg/Kg			12/06/23 07:59	1

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-36466-3

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 22:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 22:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 22:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/06/23 22:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 22:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/06/23 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				12/05/23 14:49	12/06/23 22:12	1
1,4-Difluorobenzene (Surr)	87		70 - 130				12/05/23 14:49	12/06/23 22:12	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			12/06/23 22:12	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			12/06/23 01:42	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		12/05/23 15:45	12/06/23 01:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		12/05/23 15:45	12/06/23 01:42	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-36466-3

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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		12/05/23 15:45	12/06/23 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				12/05/23 15:45	12/06/23 01:42	1
o-Terphenyl	127		70 - 130				12/05/23 15:45	12/06/23 01:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		4.96		mg/Kg			12/06/23 08:05	1

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-36466-4

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 22:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 22:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 22:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/06/23 22:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/06/23 22:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/06/23 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				12/05/23 14:49	12/06/23 22:38	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/05/23 14:49	12/06/23 22:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/06/23 22:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			12/06/23 02:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/05/23 15:45	12/06/23 02:03	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/05/23 15:45	12/06/23 02:03	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/05/23 15:45	12/06/23 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				12/05/23 15:45	12/06/23 02:03	1
o-Terphenyl	126		70 - 130				12/05/23 15:45	12/06/23 02:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.8		5.05		mg/Kg			12/06/23 08:12	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-5 (1.5')

Lab Sample ID: 880-36466-5

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 23:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 23:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 23:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/05/23 14:49	12/06/23 23:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 23:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/05/23 14:49	12/06/23 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/05/23 14:49	12/06/23 23:04	1
1,4-Difluorobenzene (Surr)	109		70 - 130	12/05/23 14:49	12/06/23 23:04	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			12/06/23 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	<50.4	U	50.4		mg/Kg			12/06/23 02:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/05/23 15:45	12/06/23 02:25	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		12/05/23 15:45	12/06/23 02:25	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/05/23 15:45	12/06/23 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	12/05/23 15:45	12/06/23 02:25	1
o-Terphenyl	123		70 - 130	12/05/23 15:45	12/06/23 02:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.99		mg/Kg			12/06/23 08:18	1

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-36466-6

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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		12/05/23 14:49	12/06/23 23:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/05/23 14:49	12/06/23 23:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/05/23 14:49	12/06/23 23:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/05/23 14:49	12/06/23 23:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/05/23 14:49	12/06/23 23:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/05/23 14:49	12/06/23 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	12/05/23 14:49	12/06/23 23:30	1
1,4-Difluorobenzene (Surr)	73		70 - 130	12/05/23 14:49	12/06/23 23:30	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-6 (1.5')

Lab Sample ID: 880-36466-6

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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			12/06/23 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			12/06/23 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/05/23 15:45	12/06/23 02:47	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/05/23 15:45	12/06/23 02:47	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/05/23 15:45	12/06/23 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				12/05/23 15:45	12/06/23 02:47	1
o-Terphenyl	123		70 - 130				12/05/23 15:45	12/06/23 02:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		4.97		mg/Kg			12/06/23 08:38	1

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-36466-7

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 23:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 23:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 23:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/05/23 14:49	12/06/23 23:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 23:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/05/23 14:49	12/06/23 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	49	S1-	70 - 130				12/05/23 14:49	12/06/23 23:56	1
1,4-Difluorobenzene (Surr)	72		70 - 130				12/05/23 14:49	12/06/23 23:56	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			12/06/23 23:56	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			12/06/23 03:08	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		12/05/23 15:45	12/06/23 03:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/23 15:45	12/06/23 03:08	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-36466-7

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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		12/05/23 15:45	12/06/23 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				12/05/23 15:45	12/06/23 03:08	1
o-Terphenyl	120		70 - 130				12/05/23 15:45	12/06/23 03:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.3		5.00		mg/Kg			12/06/23 08:44	1

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-36466-8

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/07/23 00:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/07/23 00:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/07/23 00:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/07/23 00:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/07/23 00:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/07/23 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				12/05/23 14:49	12/07/23 00:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130				12/05/23 14:49	12/07/23 00:21	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			12/07/23 00:21	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			12/06/23 03:30	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		12/05/23 15:45	12/06/23 03:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/05/23 15:45	12/06/23 03:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/05/23 15:45	12/06/23 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				12/05/23 15:45	12/06/23 03:30	1
o-Terphenyl	121		70 - 130				12/05/23 15:45	12/06/23 03:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		4.95		mg/Kg			12/06/23 08:51	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-36466-9

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/07/23 00:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/07/23 00:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/07/23 00:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/07/23 00:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:49	12/07/23 00:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/23 14:49	12/07/23 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	12/05/23 14:49	12/07/23 00:47	1
1,4-Difluorobenzene (Surr)	110		70 - 130	12/05/23 14:49	12/07/23 00:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/07/23 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	<50.0	U	50.0		mg/Kg			12/06/23 03:51	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		12/05/23 15:45	12/06/23 03:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/23 15:45	12/06/23 03:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/23 15:45	12/06/23 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	12/05/23 15:45	12/06/23 03:51	1
o-Terphenyl	138	S1+	70 - 130	12/05/23 15:45	12/06/23 03:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.9		4.99		mg/Kg			12/06/23 08:57	1

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-36466-10

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/07/23 02:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/07/23 02:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/07/23 02:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/05/23 14:49	12/07/23 02:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/07/23 02:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/05/23 14:49	12/07/23 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130	12/05/23 14:49	12/07/23 02:04	1
1,4-Difluorobenzene (Surr)	82		70 - 130	12/05/23 14:49	12/07/23 02:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (1.5')
Date Collected: 12/04/23 00:00
Date Received: 12/05/23 14:10

Lab Sample ID: 880-36466-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/07/23 02:04	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			12/06/23 04:13	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		12/05/23 15:45	12/06/23 04:13	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/05/23 15:45	12/06/23 04:13	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/05/23 15:45	12/06/23 04:13	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	151	S1+	70 - 130				12/05/23 15:45	12/06/23 04:13	1	
o-Terphenyl	132	S1+	70 - 130				12/05/23 15:45	12/06/23 04:13	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	352		5.05		mg/Kg			12/06/23 09:04	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-36465-A-1-A MS	Matrix Spike	125	85				
880-36465-A-1-B MSD	Matrix Spike Duplicate	129	100				
880-36466-1	CS-1 (1.5')	140 S1+	118				
880-36466-2	CS-2 (1.5')	111	83				
880-36466-3	CS-3 (1.5')	84	87				
880-36466-4	CS-4 (1.5')	106	91				
880-36466-5	CS-5 (1.5')	120	109				
880-36466-6	CS-6 (1.5')	106	73				
880-36466-7	SW-1 (1.5')	49 S1-	72				
880-36466-8	SW-2 (1.5')	109	99				
880-36466-9	SW-3 (1.5')	130	110				
880-36466-10	SW-4 (1.5')	61 S1-	82				
LCS 880-68431/1-A	Lab Control Sample	125	86				
LCSD 880-68431/2-A	Lab Control Sample Dup	118	78				
MB 880-68431/5-A	Method Blank	68 S1-	84				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-36462-A-1-F MS	Matrix Spike	160 S1+	112				
880-36462-A-1-G MSD	Matrix Spike Duplicate	156 S1+	110				
880-36466-1	CS-1 (1.5')	169 S1+	146 S1+				
880-36466-2	CS-2 (1.5')	162 S1+	142 S1+				
880-36466-3	CS-3 (1.5')	145 S1+	127				
880-36466-4	CS-4 (1.5')	146 S1+	126				
880-36466-5	CS-5 (1.5')	141 S1+	123				
880-36466-6	CS-6 (1.5')	141 S1+	123				
880-36466-7	SW-1 (1.5')	135 S1+	120				
880-36466-8	SW-2 (1.5')	138 S1+	121				
880-36466-9	SW-3 (1.5')	159 S1+	138 S1+				
880-36466-10	SW-4 (1.5')	151 S1+	132 S1+				
LCS 880-68436/2-A	Lab Control Sample	99	100				
LCSD 880-68436/3-A	Lab Control Sample Dup	99	91				
MB 880-68436/1-A	Method Blank	196 S1+	187 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68431/5-A

Matrix: Solid

Analysis Batch: 68458

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68431

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:49	12/06/23 20:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/23 14:49	12/06/23 20:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	12/05/23 14:49	12/06/23 20:27	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/05/23 14:49	12/06/23 20:27	1

Lab Sample ID: LCS 880-68431/1-A

Matrix: Solid

Analysis Batch: 68458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1047		mg/Kg		105	70 - 130
Toluene	0.100	0.1155		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1086		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2082		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-68431/2-A

Matrix: Solid

Analysis Batch: 68458

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68431

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08813		mg/Kg		88	70 - 130	17	35
Toluene	0.100	0.09544		mg/Kg		95	70 - 130	19	35
Ethylbenzene	0.100	0.09876		mg/Kg		99	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1878		mg/Kg		94	70 - 130	10	35
o-Xylene	0.100	0.09950		mg/Kg		99	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 880-36465-A-1-A MS

Matrix: Solid

Analysis Batch: 68458

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 68431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08676		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.09191		mg/Kg		92	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-36465-A-1-A MS

Matrix: Solid

Analysis Batch: 68458

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 68431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.08778		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1667		mg/Kg		84	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09252		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-36465-A-1-B MSD

Matrix: Solid

Analysis Batch: 68458

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 68431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08493		mg/Kg		85	70 - 130	2	35
Toluene	<0.00199	U	0.0990	0.08398		mg/Kg		85	70 - 130	9	35
Ethylbenzene	<0.00199	U	0.0990	0.09483		mg/Kg		96	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1870		mg/Kg		94	70 - 130	11	35
o-Xylene	<0.00199	U	0.0990	0.09821		mg/Kg		98	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-68436/1-A

Matrix: Solid

Analysis Batch: 68368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68436

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		12/05/23 15:45	12/05/23 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/23 15:45	12/05/23 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/23 15:45	12/05/23 19:14	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	196	S1+	70 - 130	12/05/23 15:45	12/05/23 19:14	1
o-Terphenyl	187	S1+	70 - 130	12/05/23 15:45	12/05/23 19:14	1

Lab Sample ID: LCS 880-68436/2-A

Matrix: Solid

Analysis Batch: 68368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1090		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1040		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-68436/2-A
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68436

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-68436/3-A
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1088		mg/Kg		109	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1040		mg/Kg		104	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 880-36462-A-1-F MS
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68436

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	<50.1	U	995	992.2		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U F1	995	1416	F1	mg/Kg		140	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	160	S1+	70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 880-36462-A-1-G MSD
Matrix: Solid
Analysis Batch: 68368

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 68436

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	<50.1	U	995	956.7		mg/Kg		94	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	995	1394	F1	mg/Kg		138	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	156	S1+	70 - 130
o-Terphenyl	110		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68432/1-A
Matrix: Solid
Analysis Batch: 68441

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			12/06/23 07:19	1

Lab Sample ID: LCS 880-68432/2-A
Matrix: Solid
Analysis Batch: 68441

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.8		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-68432/3-A
Matrix: Solid
Analysis Batch: 68441

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	260.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-36466-1 MS
Matrix: Solid
Analysis Batch: 68441

Client Sample ID: CS-1 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.1		250	294.8		mg/Kg		98	90 - 110

Lab Sample ID: 880-36466-1 MSD
Matrix: Solid
Analysis Batch: 68441

Client Sample ID: CS-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	49.1		250	294.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 68431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36466-1	CS-1 (1.5')	Total/NA	Solid	5035	
880-36466-2	CS-2 (1.5')	Total/NA	Solid	5035	
880-36466-3	CS-3 (1.5')	Total/NA	Solid	5035	
880-36466-4	CS-4 (1.5')	Total/NA	Solid	5035	
880-36466-5	CS-5 (1.5')	Total/NA	Solid	5035	
880-36466-6	CS-6 (1.5')	Total/NA	Solid	5035	
880-36466-7	SW-1 (1.5')	Total/NA	Solid	5035	
880-36466-8	SW-2 (1.5')	Total/NA	Solid	5035	
880-36466-9	SW-3 (1.5')	Total/NA	Solid	5035	
880-36466-10	SW-4 (1.5')	Total/NA	Solid	5035	
MB 880-68431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36465-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-36465-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 68458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36466-1	CS-1 (1.5')	Total/NA	Solid	8021B	68431
880-36466-2	CS-2 (1.5')	Total/NA	Solid	8021B	68431
880-36466-3	CS-3 (1.5')	Total/NA	Solid	8021B	68431
880-36466-4	CS-4 (1.5')	Total/NA	Solid	8021B	68431
880-36466-5	CS-5 (1.5')	Total/NA	Solid	8021B	68431
880-36466-6	CS-6 (1.5')	Total/NA	Solid	8021B	68431
880-36466-7	SW-1 (1.5')	Total/NA	Solid	8021B	68431
880-36466-8	SW-2 (1.5')	Total/NA	Solid	8021B	68431
880-36466-9	SW-3 (1.5')	Total/NA	Solid	8021B	68431
880-36466-10	SW-4 (1.5')	Total/NA	Solid	8021B	68431
MB 880-68431/5-A	Method Blank	Total/NA	Solid	8021B	68431
LCS 880-68431/1-A	Lab Control Sample	Total/NA	Solid	8021B	68431
LCSD 880-68431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68431
880-36465-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	68431
880-36465-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	68431

Analysis Batch: 68487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36466-1	CS-1 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-2	CS-2 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-3	CS-3 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-4	CS-4 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-5	CS-5 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-6	CS-6 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-7	SW-1 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-8	SW-2 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-9	SW-3 (1.5')	Total/NA	Solid	Total BTEX	
880-36466-10	SW-4 (1.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 68368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36466-1	CS-1 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-2	CS-2 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-3	CS-3 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-4	CS-4 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-5	CS-5 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-6	CS-6 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-7	SW-1 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-8	SW-2 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-9	SW-3 (1.5')	Total/NA	Solid	8015B NM	68436
880-36466-10	SW-4 (1.5')	Total/NA	Solid	8015B NM	68436
MB 880-68436/1-A	Method Blank	Total/NA	Solid	8015B NM	68436
LCS 880-68436/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68436
LCSD 880-68436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68436
880-36462-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	68436
880-36462-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	68436

Prep Batch: 68436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36466-1	CS-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-2	CS-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-3	CS-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-4	CS-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-5	CS-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-6	CS-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-7	SW-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-8	SW-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-9	SW-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-36466-10	SW-4 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-68436/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68436/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68436/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36462-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-36462-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 68514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36466-1	CS-1 (1.5')	Total/NA	Solid	8015 NM	
880-36466-2	CS-2 (1.5')	Total/NA	Solid	8015 NM	
880-36466-3	CS-3 (1.5')	Total/NA	Solid	8015 NM	
880-36466-4	CS-4 (1.5')	Total/NA	Solid	8015 NM	
880-36466-5	CS-5 (1.5')	Total/NA	Solid	8015 NM	
880-36466-6	CS-6 (1.5')	Total/NA	Solid	8015 NM	
880-36466-7	SW-1 (1.5')	Total/NA	Solid	8015 NM	
880-36466-8	SW-2 (1.5')	Total/NA	Solid	8015 NM	
880-36466-9	SW-3 (1.5')	Total/NA	Solid	8015 NM	
880-36466-10	SW-4 (1.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 68432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36466-1	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-36466-2	CS-2 (1.5')	Soluble	Solid	DI Leach	
880-36466-3	CS-3 (1.5')	Soluble	Solid	DI Leach	
880-36466-4	CS-4 (1.5')	Soluble	Solid	DI Leach	
880-36466-5	CS-5 (1.5')	Soluble	Solid	DI Leach	
880-36466-6	CS-6 (1.5')	Soluble	Solid	DI Leach	
880-36466-7	SW-1 (1.5')	Soluble	Solid	DI Leach	
880-36466-8	SW-2 (1.5')	Soluble	Solid	DI Leach	
880-36466-9	SW-3 (1.5')	Soluble	Solid	DI Leach	
880-36466-10	SW-4 (1.5')	Soluble	Solid	DI Leach	
MB 880-68432/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68432/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68432/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36466-1 MS	CS-1 (1.5')	Soluble	Solid	DI Leach	
880-36466-1 MSD	CS-1 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 68441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-36466-1	CS-1 (1.5')	Soluble	Solid	300.0	68432
880-36466-2	CS-2 (1.5')	Soluble	Solid	300.0	68432
880-36466-3	CS-3 (1.5')	Soluble	Solid	300.0	68432
880-36466-4	CS-4 (1.5')	Soluble	Solid	300.0	68432
880-36466-5	CS-5 (1.5')	Soluble	Solid	300.0	68432
880-36466-6	CS-6 (1.5')	Soluble	Solid	300.0	68432
880-36466-7	SW-1 (1.5')	Soluble	Solid	300.0	68432
880-36466-8	SW-2 (1.5')	Soluble	Solid	300.0	68432
880-36466-9	SW-3 (1.5')	Soluble	Solid	300.0	68432
880-36466-10	SW-4 (1.5')	Soluble	Solid	300.0	68432
MB 880-68432/1-A	Method Blank	Soluble	Solid	300.0	68432
LCS 880-68432/2-A	Lab Control Sample	Soluble	Solid	300.0	68432
LCSD 880-68432/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68432
880-36466-1 MS	CS-1 (1.5')	Soluble	Solid	300.0	68432
880-36466-1 MSD	CS-1 (1.5')	Soluble	Solid	300.0	68432

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (1.5')

Lab Sample ID: 880-36466-1

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/06/23 21:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/06/23 21:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 00:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 00:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 07:39	CH	EET MID

Client Sample ID: CS-2 (1.5')

Lab Sample ID: 880-36466-2

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/06/23 21:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/06/23 21:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 01:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 01:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 07:59	CH	EET MID

Client Sample ID: CS-3 (1.5')

Lab Sample ID: 880-36466-3

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/06/23 22:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/06/23 22:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 01:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 08:05	CH	EET MID

Client Sample ID: CS-4 (1.5')

Lab Sample ID: 880-36466-4

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/06/23 22:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/06/23 22:38	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (1.5')
Date Collected: 12/04/23 00:00
Date Received: 12/05/23 14:10

Lab Sample ID: 880-36466-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			68514	12/06/23 02:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 02:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 08:12	CH	EET MID

Client Sample ID: CS-5 (1.5')
Date Collected: 12/04/23 00:00
Date Received: 12/05/23 14:10

Lab Sample ID: 880-36466-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/06/23 23:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/06/23 23:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 02:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 02:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 08:18	CH	EET MID

Client Sample ID: CS-6 (1.5')
Date Collected: 12/04/23 00:00
Date Received: 12/05/23 14:10

Lab Sample ID: 880-36466-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/06/23 23:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/06/23 23:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 02:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 02:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 08:38	CH	EET MID

Client Sample ID: SW-1 (1.5')
Date Collected: 12/04/23 00:00
Date Received: 12/05/23 14:10

Lab Sample ID: 880-36466-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/06/23 23:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/06/23 23:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 03:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 03:08	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (1.5')

Lab Sample ID: 880-36466-7

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 08:44	CH	EET MID

Client Sample ID: SW-2 (1.5')

Lab Sample ID: 880-36466-8

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/07/23 00:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/07/23 00:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 03:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 03:30	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 08:51	CH	EET MID

Client Sample ID: SW-3 (1.5')

Lab Sample ID: 880-36466-9

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/07/23 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/07/23 00:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 03:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 03:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 08:57	CH	EET MID

Client Sample ID: SW-4 (1.5')

Lab Sample ID: 880-36466-10

Date Collected: 12/04/23 00:00

Matrix: Solid

Date Received: 12/05/23 14:10

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	68431	12/05/23 14:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68458	12/07/23 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68487	12/07/23 02:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			68514	12/06/23 04:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	68436	12/05/23 15:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68368	12/06/23 04:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	68432	12/05/23 14:59	CH	EET MID
Soluble	Analysis	300.0		1			68441	12/06/23 09:04	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
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: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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

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Method Summary

Client: Carmona Resources
Project/Site: Cluster State Com

Job ID: 880-36466-1
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: Cluster State Com

Job ID: 880-36466-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-36466-1	CS-1 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-2	CS-2 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-3	CS-3 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-4	CS-4 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-5	CS-5 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-6	CS-6 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-7	SW-1 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-8	SW-2 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-9	SW-3 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10
880-36466-10	SW-4 (1.5')	Solid	12/04/23 00:00	12/05/23 14:10





880-36466 Chain of Custody

Page 1 of 1

Work Order Comments

Program: ☐ PST ☐ PRP ☐ Downfields ☐ JRC ☐ perfund

State of Project: ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV

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

Deliverables: EDD ☐ ADAPT ☐ Other

Project Manager: Conner Moehring
 Company Name: Carmona Resources
 Address: 310 W Wall St Ste 500
 City, State ZIP: Midland, TX 79701
 Phone: 432-813-6823

Bill to (if different):
 Company Name: Brandon Steen
 Address: Standard Safety & Supply
 2524 Trunk St
 Odessa, Texas 79761
 Email: brandon.steen@standardix.com

Project Name		Cluster State Com		Turn Around		Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number	Project Location	Project Name	Address	City, State ZIP	City, State ZIP	City, State ZIP	City, State ZIP	City, State ZIP	City, State ZIP	City, State ZIP	City, State ZIP
2174	Eddy County, New Mexico	JM	E-2524	48 HR TAT	48 HR TAT	48 HR TAT	48 HR TAT	48 HR TAT	48 HR TAT	48 HR TAT	48 HR TAT
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No		Thermometer ID: Yes No		Correction Factor: Yes No		Temperature Reading: Yes No	
Received Intact: Yes No		Thermometer ID: Yes No		Wet Ice: Yes No		Thermometer ID: Yes No		Correction Factor: Yes No		Temperature Reading: Yes No	
Cooler Custody Seals: Yes No		Thermometer ID: Yes No		Wet Ice: Yes No		Thermometer ID: Yes No		Correction Factor: Yes No		Temperature Reading: Yes No	
Sample Custody Seals: Yes No		Thermometer ID: Yes No		Wet Ice: Yes No		Thermometer ID: Yes No		Correction Factor: Yes No		Temperature Reading: Yes No	
Total Containers		Thermometer ID: Yes No		Wet Ice: Yes No		Thermometer ID: Yes No		Correction Factor: Yes No		Temperature Reading: Yes No	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes	
CS-1 (1.5')	12/4/2023		X		Comp	1	TPH 8015M (GRO + DRO + MRO)			None. NO DI Water H ₂ O	
CS-2 (1.5')	12/4/2023		X		Comp	1	BTEX 8021B			Cool Cool MeOH Me	
CS-3 (1.5')	12/4/2023		X		Comp	1				HCL. HC HNO ₃ . HN	
CS-4 (1.5')	12/4/2023		X		Comp	1				H ₂ SO ₄ . H ₂ NaOH Na	
CS-5 (1.5')	12/4/2023		X		Comp	1				H ₃ PO ₄ . HP	
CS-6 (1.5')	12/4/2023		X		Comp	1				NaHSO ₄ . NABIS	
SW-1 (1.5')	12/4/2023		X		Comp	1				Na ₂ S ₂ O ₃ . NaSO ₃	
SW-2 (1.5')	12/4/2023		X		Comp	1				Zn Acetate+NaOH Zn	
SW-3 (1.5')	12/4/2023		X		Comp	1				NaOH+Ascorbic Acid SAPC	
SW-4 (1.5')	12/4/2023		X		Comp	1					
Sample Comments											

Comments: Email to Mike Carmona / Mearmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com and Brandon Steen @ brandon.steen@standardix.com

Relinquished by (Signature): *[Signature]* Date/Time: 12-5-23 04:10

Received by (Signature): *[Signature]* Date/Time: 12-5-23 04:10

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-36466-1

SDG Number: Eddy County, New Mexico

Login Number: 36466

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	

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Santa Fe, NM 87505

QUESTIONS

Action 307881

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307881
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327650601
Incident Name	NAPP2327650601 CLUSTER STATE COM CTB @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2203347145] CLUSTER STATE COM BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CLUSTER STATE COM CTB
Date Release Discovered	09/09/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	Cause: Corrosion Pump Crude Oil Released: 6 BBL Recovered: 1 BBL Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 307881

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	307881
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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: 01/25/2024
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QUESTIONS, Page 3

Action 307881

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	307881
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	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 500 and 1000 (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	Between 500 and 1000 (ft.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	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	12/04/2023
On what date will (or did) the final sampling or liner inspection occur	12/04/2023
On what date will (or was) the remediation complete(d)	12/04/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	180
What is the estimated volume (in cubic yards) that will be remediated	180

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 307881

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	307881
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	CLUSTER STATE COM BATTERY [fAPP2203347145]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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: 01/25/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 307881

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307881
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 307881

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	307881
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	307893
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/09/2023
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	0

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	180
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	None.

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/25/2024
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QUESTIONS, Page 7

Action 307881

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307881
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 307881

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 307881
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2327650601 CLUSTER STATE COM CTB, thank you. This Remediation Closure Report is approved.	4/3/2024