

SITE INFORMATION

Closure Report
Cottonmouth 23 Federal Com 001H (06.06.2024)
Eddy County, New Mexico
Incident ID: NAPP2415854482
Unit C Sec 14 T26S R28E
32.0469°, -104.0588°

Produced Water Release

Point of Release: Transfer line leak due to corrosion

Release Date: 06.06.2024

Volume Released: 25.3835 barrels of Produced Water

Volume Recovered: 0 barrels of Produced Water

CARMONA RESOURCES

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

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



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



August 15, 2024

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

Re: Closure Report

Cottonmouth 23 Federal Com 001H (06.06.2024)

Concho Operating, LLC

Site Location: Unit C, S14, T26S, R28E

(Lat 32.0469°, Long -104.0588°) Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Cottonmouth 23 Federal Com 001H. The site is located at 32.0469, -104.0588 within Unit C, S14, T26S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 6, 2024, due to corrosion in the transfer line. It resulted in approximately twenty-five point three eight three five (25.3835) barrels of produced water released with zero (0) barrels of produced water recovered. The impacted area occurred in the pasture, shown in Figure 3. The Notice of Release and Initial C-141 is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, one known water sources is within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.19 miles East of the in S14, T26S, R28E and was drilled in 1959. The well has a reported depth to groundwater of 120' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On July 9, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and six (6) horizontal sample points (H-1 through H-6) were installed to total depths ranging from surface to 1.0' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. At a depth of 1.0', refusal due to hard lithology



was encountered with hand tools. 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 D. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on August 5, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. The areas of S-1 through S-3 were excavated to a depth of 2.0°. A total of eight (8) confirmation floor samples were collected (CS-1 through CS-8), and ten (10) sidewall samples (SW-1 through SW-10) 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 D. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The material utilized for backfill was sourced from the Onsurez Backfill Pit, located at GPS 32.308151, -104.063288. The pit sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 200 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Reclamation Activities

The site was re-seeded on August 8, 2024. The seed mixture was spread by hand. Topsoil matching the surrounding areas was raked back on top of the seed after being broadcast. The seed mixture used was the BLM Seed Mix #1 (See attachments in Appendix E). See Figure 5 for the reclamation area.

7.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

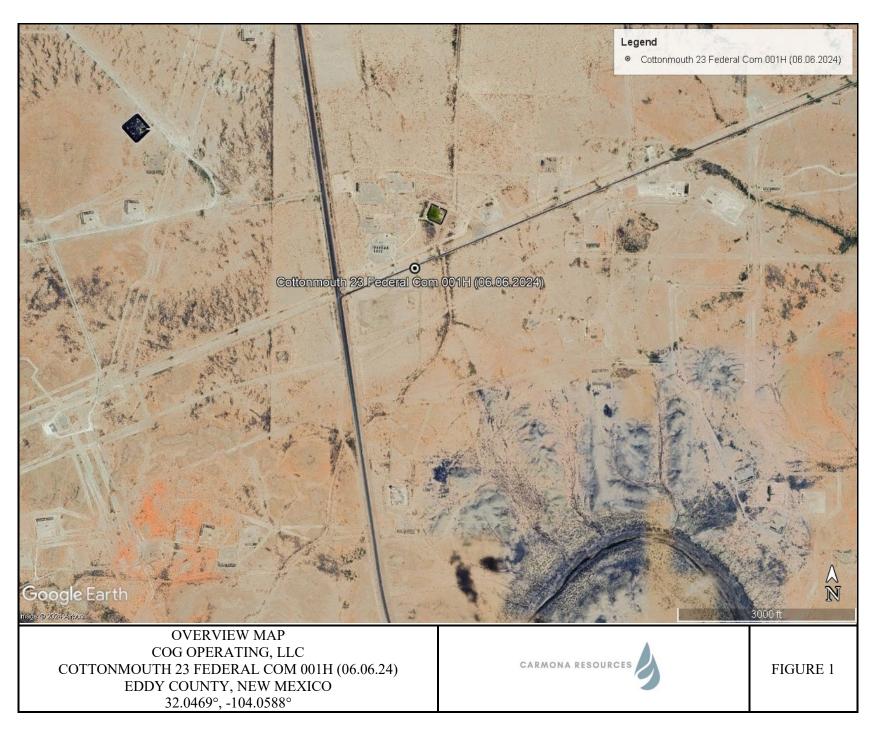
Mike Carmona

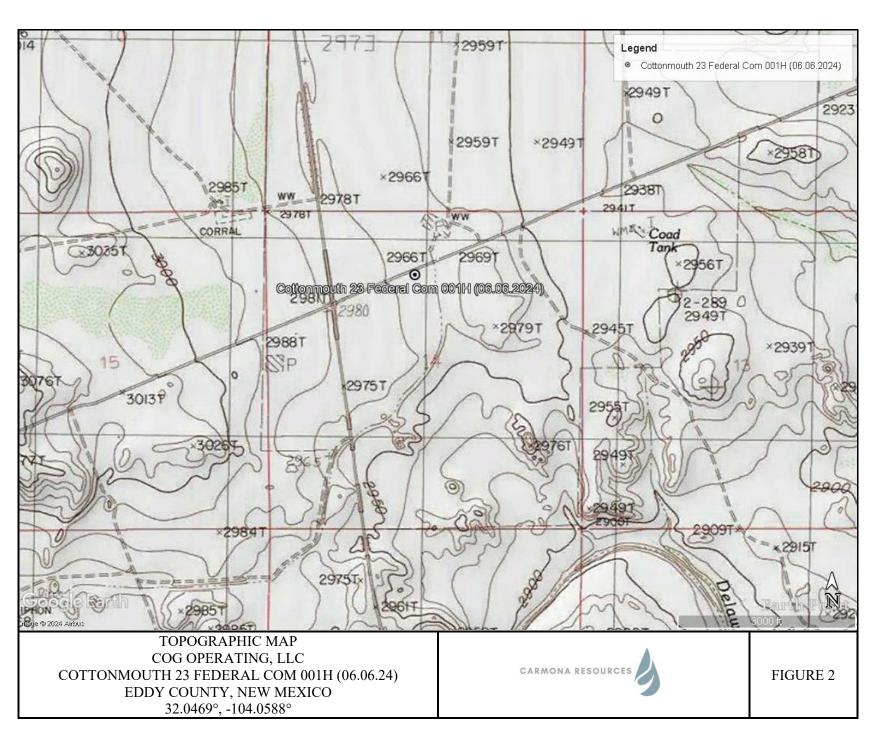
Environmental Manager

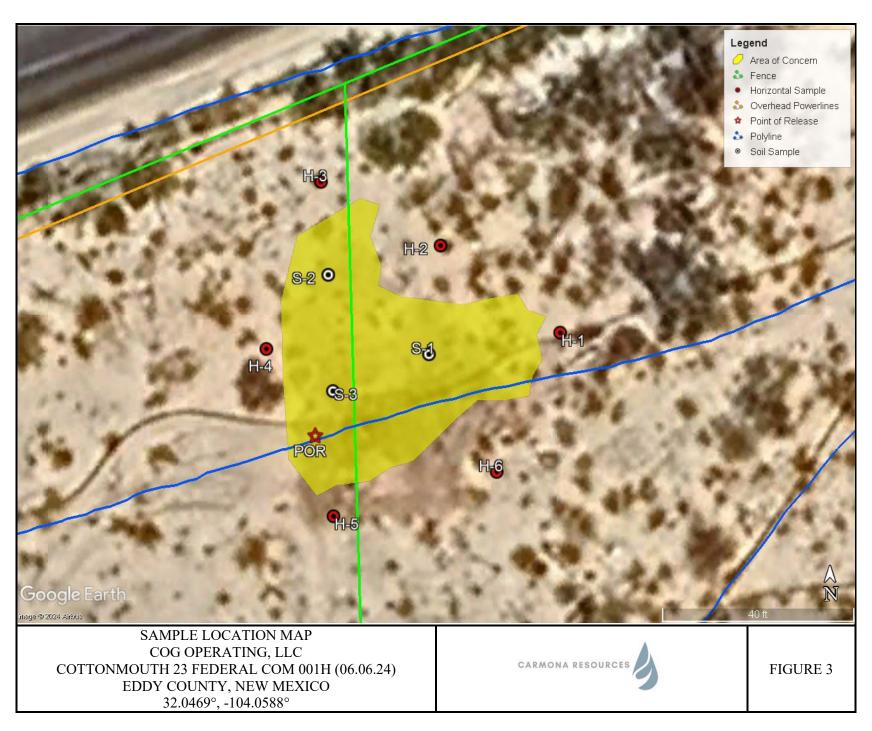
Ashton Thielke Sr. Project Manager

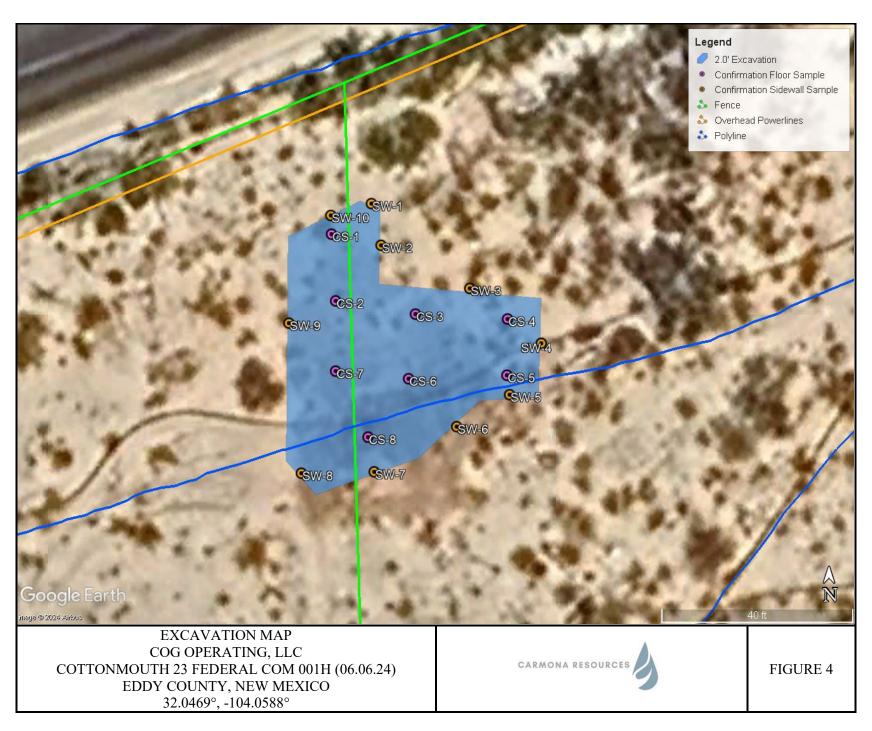
FIGURES

CARMONA RESOURCES











APPENDIX A

CARMONA RESOURCES

Table 1 **COG Operating, LLC** Cottonmouth 23 Federal Com 001H (06.06.24) **Eddy County, New Mexico**

0	D. I	D . (1. (50)	TPH (mg/kg)				Benzene Toluene	Ethlybenzene	Xylene	Total	Chloride	
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
S-1	7/9/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	18,200
S-2	7/9/2024	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	16,800
S-3	7/9/2024	0-1'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	17,100
H-1	7/9/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	44.0
H-2	7/9/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	36.2
H-3	7/9/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	35.3
H-4	7/9/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	33.6
H-5	7/9/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	89.8
H-6	7/9/2024	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	43.4
	ory Criteria A					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons

ft - feet

(H) Horizontal Point (S) Sample Point

Removed

Table 2
COG Operating, LLC
Cottonmouth 23 Federal Com 001H (06.06.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Gample 15	Date	Deptii (it)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	8/6/2024	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	113
CS-2	8/6/2024	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	115
CS-3	8/6/2024	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	95.5
CS-4	8/6/2024	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	111
CS-5	8/6/2024	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	45.4
CS-6	8/6/2024	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	40.6
CS-7	8/6/2024	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	107
CS-8	8/6/2024	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	104
SW-1	8/6/2024	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	108
SW-2	8/6/2024	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	111
SW-3	8/6/2024	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	93.0
SW-4	8/6/2024	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	111
SW-5	8/6/2024	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	94.8
SW-6	8/6/2024	2.0'	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	110
SW-7	8/6/2024	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	106
SW-8	8/6/2024	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	108
SW-9	8/6/2024	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	120
SW-10	8/6/2024	2.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	122
Onsurez Pit	8/6/2024	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.4
	ry 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

COG Operating, LLC

Photograph No. 1

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View South, area of the release.



Photograph No. 2

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View North, area of the release.



Photograph No. 3

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View West, area of the release.



COG Operating, LLC

Photograph No. 4

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-1 through CS-4.



Photograph No. 5

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-5 through CS-8.



Photograph No. 6

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

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



COG Operating, LLC

Photograph No. 7

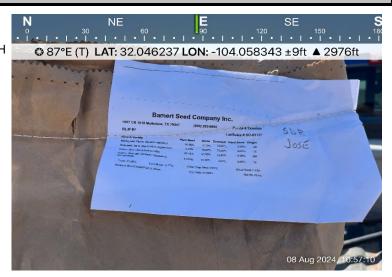
Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View of BLM #1 Seed Mix.



Photograph No. 8

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View North, backfilled area.



Photograph No. 9

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View Southeast, backfilled area.



COG Operating, LLC

Photograph No. 10

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View Northeast, hand broadcasting seed mix in progress.



Photograph No. 11

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View Northeast, hand broadcasting seed mix in

progress.



Photograph No. 12

Facility: Cottonmouth 23 Federal Com 001H

(06.06.2024)

County: Eddy County, New Mexico

Description:

View South, hand broadcasting seed mix in progress.



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	nAPP2415854482
District RP	
Facility ID	fAPP2203845988
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) nAPP2415854482				
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701				

			Location of	Release Sourc	e
Latitude	32.046	69	(VID 001 1 1	Longitude	04.0588
			(NAD 83 in decima	l degrees to 5 decimal place	(25)
Site Name		Cottonmouth 2	3 Federal Com 00	1H Site Type	Flowline
Date Release	Discovered	June 6, 202	24	API# (if applicable)	
Unit Letter	Section	Township	Range	County	
С	14	26S	28E	Eddy	
Surface Owner: State Federal Tribal Private (Name: Longhorn Road Land Division)					

Nature and Volume of Release

Material	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) 25.3835	Volume Recovered (bbls) 0								
	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)								
C CD 1										

Cause of Release

The release was caused by a transfer line leak due to corrosion.

The release was off the 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.

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Incident ID	nAPP2415854482
District RP	
Facility ID	fAPP2203845988
Application ID	

Was this a major	If YES, for what reason(s) does the re-	sponsible party consider this a major release?				
release as defined by 19.15.29.7(A) NMAC?	Release was greater than 25	barrels.				
Yes No						
If VES was immediate n	tice given to the OCD? By whom? To	whom? When and by what means (phone, email, etc)?				
· ·	on was made by Jacqui Harris					
	, ·	·				
	Initial	Response				
The responsible		liately unless they could create a safety hazard that would result in injury				
The responsible	party must undertake the Jollowing actions immed	uatety untess they could create a sajety nazara that would result in injury				
■ The source of the rele	ease has been stopped.					
■ The impacted area ha	s been secured to protect human health	and the environment.				
Released materials ha	ave been contained via the use of berms	or dikes, absorbent pads, or other containment devices.				
All free liquids and re	ecoverable materials have been removed	and managed appropriately.				
If all the actions describe	d above have <u>not</u> been undertaken, expla	ain why:				
Per 19.15.29.8 B. (4) NM	AC the responsible party may commen	ce remediation immediately after discovery of a release. If remediation				
has begun, please attach	a narrative of actions to date. If remed	lial efforts have been successfully completed or if the release occurred				
		C), please attach all information needed for closure evaluation.				
regulations all operators are	required to report and/or file certain release	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger				
		he OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In				
		r of responsibility for compliance with any other federal, state, or local laws				
Printed Name Brittany N. Esparza Signature: Brittany.Esparza@ConocoPhillips.com Title: Environmental Technician Date: 6/11/2024 Telephone: Telephone: (432) 221-0398						
Printed Name	- Danas men					
Signature:	tan Sparing	Date: 6/11/2024 Telephone: (432) 221-0398				
email: Brittany.Espar	za@ConocoPhillips.com	Telephone: (432) 221-0398				
o cr o l						
OCD Only						
Received by:		Date:				

Received by OCD: 8/2,	2/2024 1:	40:57 PA	1		Spill	Calculation - Subsurface S	Spill - Rectangle	Remediation	n Recommendation
				No. of the contract	non extraordinacementarian canacci			Total Estimated	2 1182 222 07 230
Convert Irregular shape	Length	Midth	Average	On/Off	Soil Spilled-Fluid	Estimated volume of each	Total Estimated	Contaminated	Current Rule of Thumb -
into a series of			Depth	Pad	Saturation	area	Volume of Spill	Soil,	RMR Handover Volume,
rectangles	(ft.)	(ft.)	(in.)	(dropdown)	(%.)	(bbl.)	(bbl.)	uncompacted,	(yd ³ .)
					3330000000000	ii. Japan and an	413200000	25% (yd ³ .)	10.500000000000000000000000000000000000
Rectangle A	50.0	50.0	5.0	Off-Pad V	13.69%	185.42	25.38	48.23	
Rectangle B				Off-Pad >	13.69%	0.00	0.00	0.00	
Rectangle C				Off-Pad >	13.69%	0.00	0.00	0.00	
Rectangle D				Off-Pad >	13.69%	0.00	0.00	0.00	
Rectangle E				Off-Pad >	13.69%	0.00	0.00	0.00	750
Rectangle F		30		~		0.00		0.00	750
Rectangle G				~		0.00		0.00	
Rectangle H				>		0.00	97	0.00	
Rectangle I				~		0.00		0.00	
Released to Imaging:	2/26/2024	2015501	74M4	~	045,00 30 40000	0.00	With Schools and	0.00	20200
- Reseased to Imaging.	1/20/2024	0013.01		70	Total Su	ibsurface Volume Released:	25.3835	48.23	BU

<u>District I</u> 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

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

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

QUESTIONS

Action 352908

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	352908
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2415854482				
Incident Name	NAPP2415854482 COTTON MOUTH 23 FEDERAL COM 1H @ 30-015-39784				
Incident Type	Produced Water Release				
Incident Status	Initial C-141 Received				
Incident Well	[30-015-39784] COTTONMOUTH 23 FEDERAL COM #001H				

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Cotton Mouth 23 Federal Com 1H
Date Release Discovered	06/06/2024
Surface Owner	Federal

Incident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Other Pipeline (Any) Produced Water Released: 25 BBL Recovered: 0 BBL Lost: 25 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

District I
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

1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 352908

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave Midland, TX 79701	Action Number: 352908
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	·
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
L =	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 06/11/2024

District I

QUESTIONS

A 100-year floodplain

storage site

Did the release impact areas not on an exploration, development, production, or

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

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

QUESTIONS, Page 3

[C-141] Initial C-141 (C-141-v-Initial)

Action 352908

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	352908
	Action Type:

QUESTIONS (continued)

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 elease discovery date. What is the shallowest depth to groundwater beneath the area affected by the Not answered. release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water Not answered. Did this release impact groundwater or surface water Not answered. 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 Not answered. Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Not answered. An occupied permanent residence, school, hospital, institution, or church Not answered. A spring or a private domestic fresh water well used by less than five households Not answered for domestic or stock watering purposes Any other fresh water well or spring Not answered. Incorporated municipal boundaries or a defined municipal fresh water well field Not answered. A wetland Not answered. A subsurface mine Not answered. An (non-karst) unstable area Not answered. Categorize the risk of this well / site being in a karst geology Not answered.

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	No	
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.		

Not answered.

Not answered.

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

CONDITIONS

Action 352908

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	352908
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By		Condition Date
scwells	None	6/11/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 370342

Q	UESTIONS
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137 Action Number: 370342 Action Type:
QUESTIONS	[NOTIFY] Notification Of Sampling (C-141N)
Prerequisites	
Incident ID (n#)	nAPP2415854482
Incident Name	NAPP2415854482 COTTON MOUTH 23 FEDERAL COM 1H @ 30-015-39784
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-39784] COTTONMOUTH 23 FEDERAL COM #001H
Location of Release Source	
Site Name	Cotton Mouth 23 Federal Com 1H
Date Release Discovered	06/06/2024
Surface Owner	Federal
Sampling Event General Information	

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,950
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/05/2024
Time sampling will commence	11:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

	Please provide any information necessary for observers to contact samplers	Conner Moerhring (432) 813- 6823
	Please provide any information necessary for navigation to sampling site	Coordinates on C-141

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

CONDITIONS

Action 370342

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	370342
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By		Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/5/2024

Received by OCD: 8/22/2024 1:40:57 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 29 of 168
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

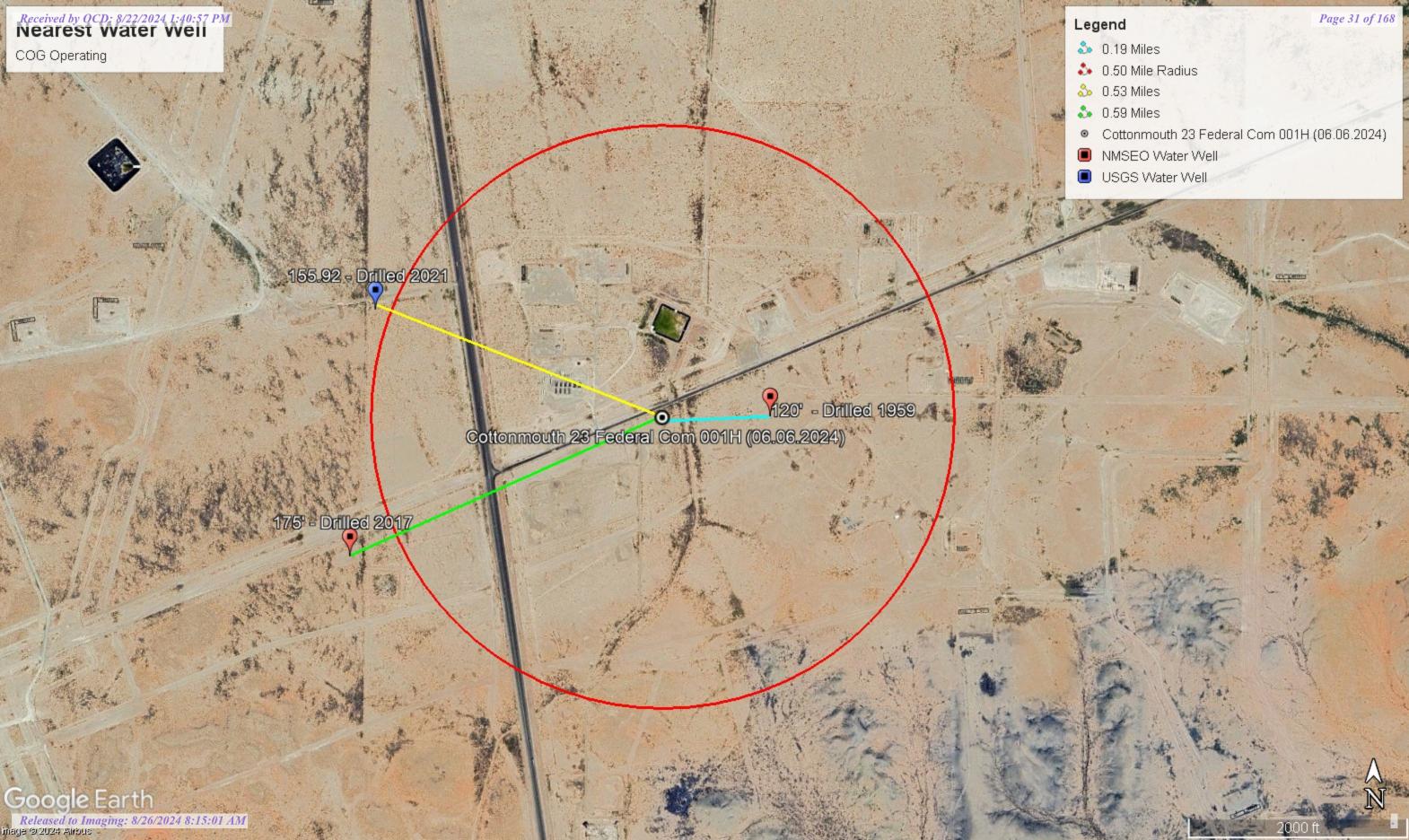
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

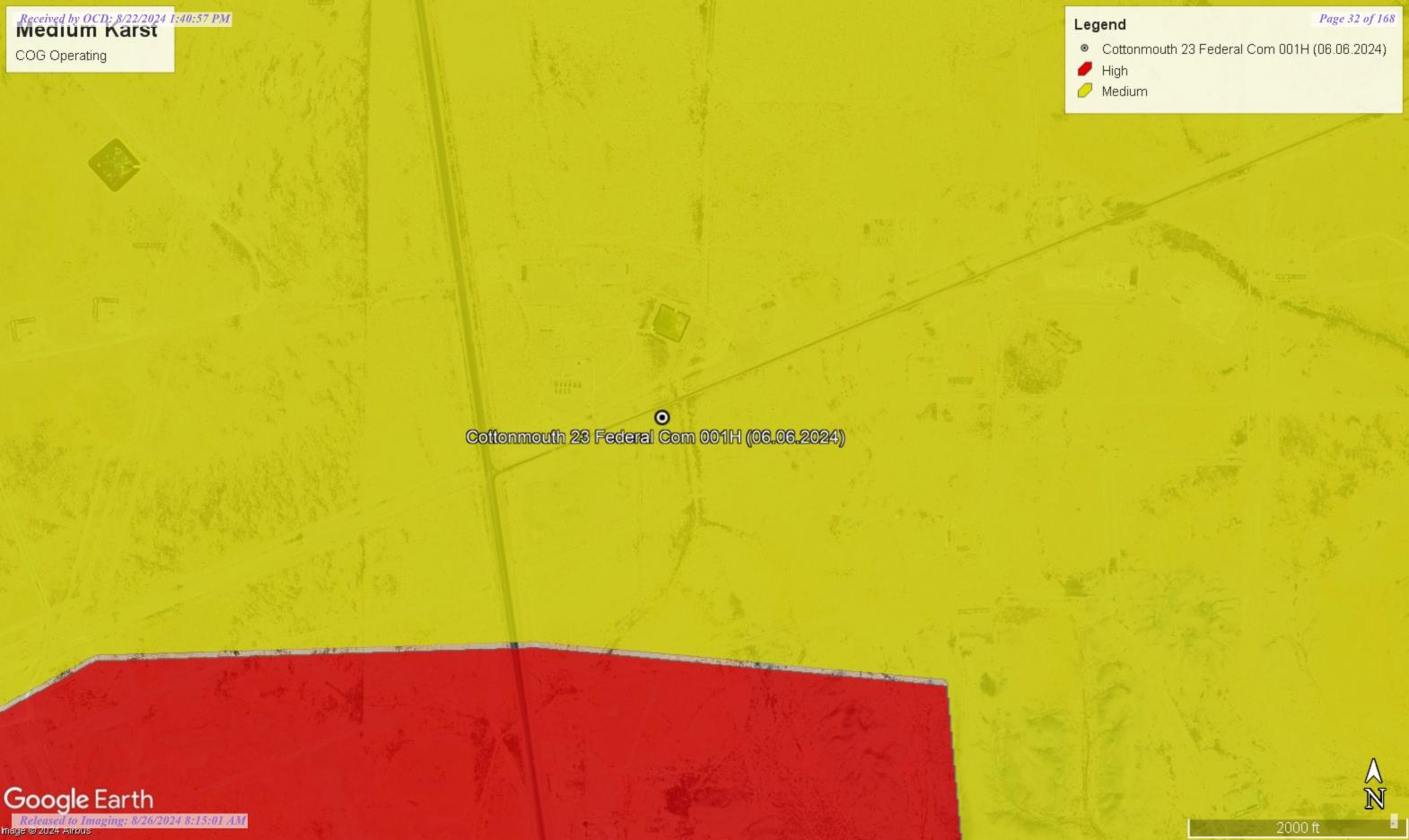
Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

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									
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.								
Printed Name:									
Signature: <u>Jaequi Harris</u>	Date:								
email:	Telephone:								
OCD Only									
Received by:	Date:								
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.								
Closure Approved by:	Date:								
Printed Name:	Title:								

APPENDIX D

CARMONA RESOURCES







New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth		Water Column
<u>C 02160 S</u>		CUB	ED	NW	NW	NE	14	26S	28E	589043.0	3546244.0 *	•	226	300	120	180
<u>C 02160 S2</u>		CUB	ED	NW	NW	NE	14	26S	28E	589043.0	3546244.0 *	•	226	300	120	180
<u>C 02160 S3</u>		CUB	ED	NE	NE	NW	14	26S	28E	588834.0	3546241.0 *	•	231	300	120	180
<u>C 02160 S4</u>		CUB	ED	NE	NE	NW	14	26S	28E	588834.0	3546241.0 *	•	231	300	120	180
<u>C 02160</u>		CUB	ED	SE	NW	NE	14	26S	28E	589243.0	3546044.0 *	•	296	300	120	180
<u>C 02481</u>		CUB	ED		NW	NW	14	26S	28E	588326.0	3546138.0 *		628	200		
<u>C 02160 S5</u>		CUB	ED	NW	NW	NW	14	26S	28E	588225.0	3546237.0 *		748	300	120	180
<u>C 02160 S6</u>		CUB	ED	SW	SW	NW	14	26S	28E	588232.0	3545635.0 *		820	300	120	180
C 04022 POD1		CUB	ED	SE	SE	NE	15	26S	28E	588081.6	3545647.1		949	220	175	45
<u>C 01668</u>		CUB	ED		SW	SW	12	26S	28E	589957.0	3546554.0 *	•	1134	250	100	150
<u>C 02479</u>		CUB	ED		SE	SE	10	26S	28E	587909.0	3546534.0 *	•	1149	200		
<u>C 02480</u>		CUB	ED		SE	SE	10	26S	28E	587909.0	3546534.0 *	•	1149	150		
<u>C 02160 S8</u>		CUB	ED	NE	SW	SW	12	26S	28E	590056.0	3546653.0 *	•	1267	200	120	80
<u>C 02924</u>		С	ED	NW	SW	NE	11	26S	28E	589032.0	3547451.0 *	•	1414			
<u>C 02894</u>		С	ED	NE	NE	SW	12	26S	28E	590458.0	3547061.0 *		1824	240		
<u>C 02160 S9</u>		CUB	ED	SW	SW	NE	02	26S	28E	589020.0	3548868.0 *	•	2830	300	120	180
C 04022 POD2		CUB	ED	NE	NE	NE	27	26S	28E	588106.4	3543082.2	•	3073	250	145	105
<u>C 02160 S7</u>		CUB	ED	SW	SW	NW	22	26S	28E	586638.0	3543998.0 *		3081	300	120	180

Average Depth to Water: 124 feet

Minimum Depth: 100 feet

Maximum Depth: 175 feet

Record Count: 18

UTM Filters (in meters):

Easting: 588946.65 **Northing:** 3546038.92

August 13, 2024 06:19 AM MST

Page 1 of 2

Water Column/Average Depth to Water



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

C 02160

HEMLER

26S

589243 3546044*



Driller License:

Driller Company:

Driller Name:

Drill Finish Date:

12/01/1959

Plug Date:

Drill Start Date:

PCW Rcv Date:

Source:

Shallow

Log File Date:

Depth Well:

Estimated Yield:

Pump Type: Casing Size: Pipe Discharge Size:

300 feet

Depth Water:

120 feet

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.

1/30/24 7:00 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources



Click to hideNews Bulletins

 Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site no list =

• 320309104020401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320309104020401 26S.28E.14.11111

Eddy County, New Mexico

Latitude 32°02'59.0", Longitude 104°03'58.7" NAD83

Land-surface elevation 2,972.00 feet above NGVD29

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1978-01-13		D	62610		2849.66	NGVD29	1	Z		
1978-01-13		D	62611		2851.23	NAVD88	1	Z		
1978-01-13		D	72019	122.34			1	Z		
1983-01-25		D	62610		2844.62	NGVD29	1	Z		
1983-01-25		D	62611		2846.19	NAVD88	1	Z		
1983-01-25		D	72019	127.38			1	Z		
1987-10-14		D	62610		2865.60	NGVD29	1	Z		
1987-10-14		D	62611		2867.17	NAVD88	1	Z		
1987-10-14		D	72019	106.40			1	Z		
1993-01-05		D	62610		2871.58	NGVD29	1	S		
1993-01-05		D	62611		2873.15	NAVD88	1	S		
1993-01-05		D	72019	100.42			1	S		
1998-01-22		D	62610		2875.45	NGVD29	1	S		
1998-01-22		D	62611		2877.02	NAVD88	1	S		
1998-01-22		D	72019	96.55			1	S		
2003-01-27		D	62610		2874.98	NGVD29	1	S	USG	iS

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
2003-01-27		D	62611		2876.55	NAVD88	1	S	USGS	
2003-01-27		D	72019	97.02			1	S	USGS	
2013-01-09	20:30 UTC	m	62610		2832.88	NGVD29	1	S	USGS	
2013-01-09	20:30 UTC	m	62611		2834.45	NAVD88	1	S	USGS	
2013-01-09	20:30 UTC	m	72019	139.12			1	S	USGS	
2021-02-24	20:05 UTC	m	62610		2816.08	NGVD29	1	V	USGS	
2021-02-24	20:05 UTC	m	62611		2817.65	NAVD88	1	V	USGS	
2021-02-24	20:05 UTC	m	72019	155.92			1	V	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	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	А	Approved for publication Processing and review completed.

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2024-08-13 08:23:33 EDT

0.26 0.23 nadww01





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec

Q64 Q16 Q4 Sec Tws Rng

X Y

C 04022 POD1 4 4 2 15 26S 28E

588082 3545647

Driller License: 1184 Driller Company: WEST TEXAS WATER WELL SERVICE

Driller Name: KEITH, RONNY

Drill Start Date: 05/01/2017 **Drill Finish Date:** 05/05/2017 **Plug Date:**

Log File Date:06/05/2017PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:1 GPMCasing Size:12.25Depth Well:220 feetDepth Water:175 feet

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

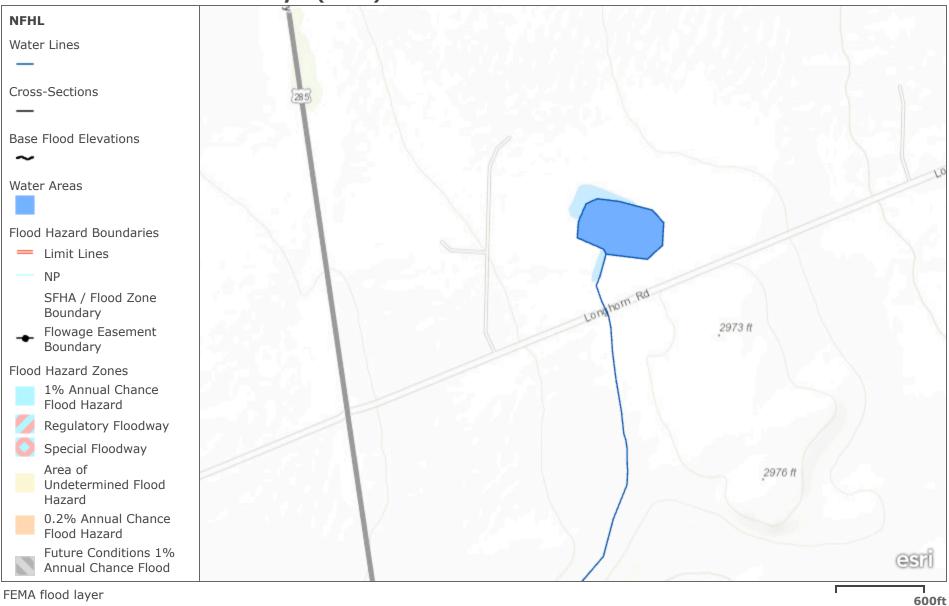
Casing Perforations: Top Bottom
160 220

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

6/13/24 6:22 PM

POINT OF DIVERSION SUMMARY

FEMA National Flood Hazard Layer (NFHL)



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

FEMA National Flood Hazard Layer (NFHL)

NFHL Water Lines Cross-Sections Base Flood Elevations Water Areas Flood Hazard Boundaries Limit Lines NP SFHA / Flood Zone Boundary Flowage Easement COUNTY ROCKS FOR Boundary Flood Hazard Zones 1% Annual Chance Flood Hazard Regulatory Floodway Special Floodway Area of Undetermined Flood Hazard 0.2% Annual Chance

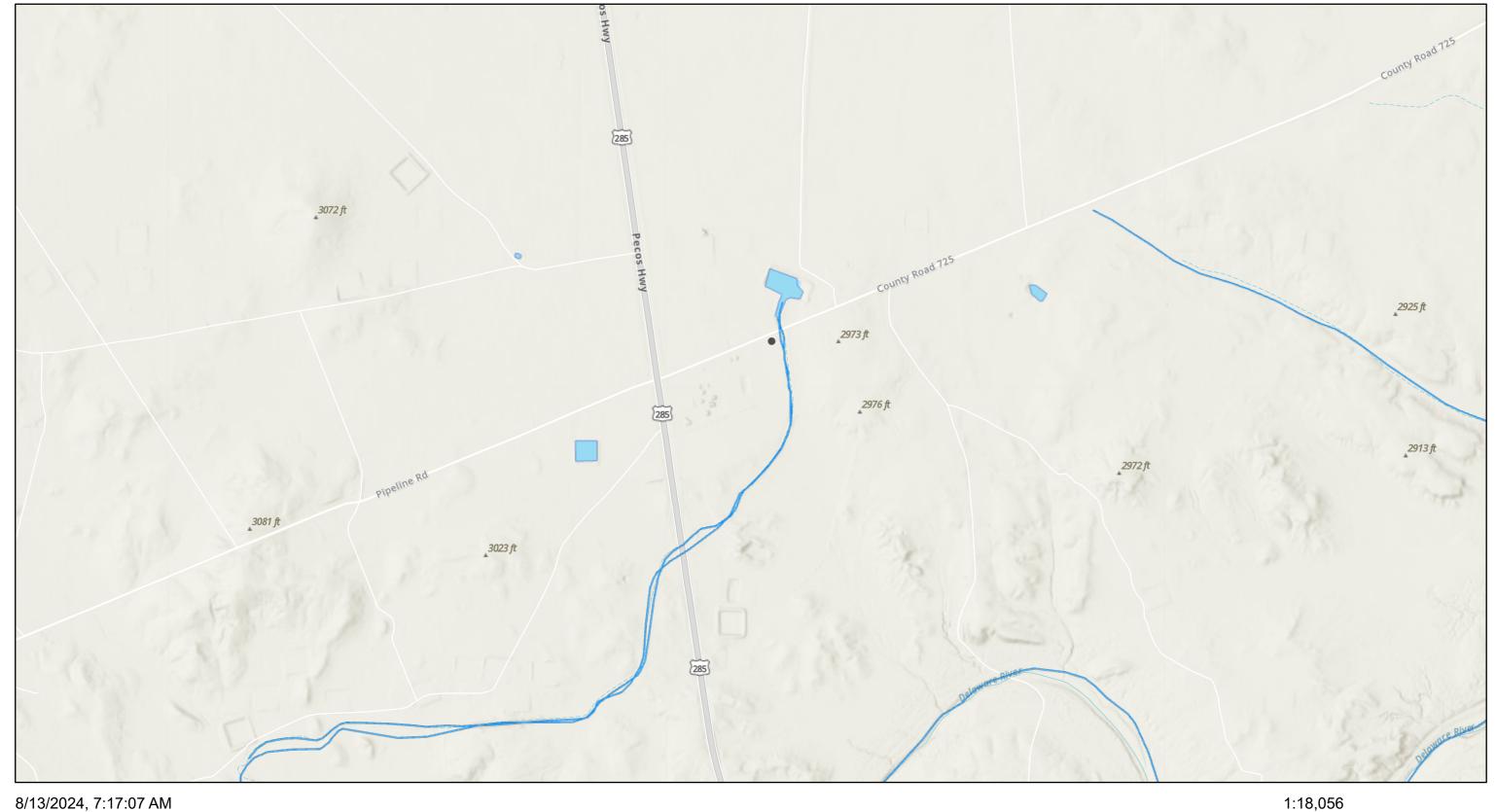
FEMA flood layer 600ft

Maxar | Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Flood Hazard

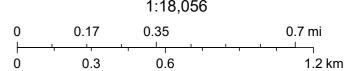
Future Conditions 1% Annual Chance Flood

Cottonmouth 23 Federal Com 001H (06.06.2024)



OSW Water Bodys

OSE Streams



Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, NM OSE

APPENDIX E

CARMONA RESOURCES

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/12/2024 5:02:24 PM

JOB DESCRIPTION

Cottonmouth 23 Federal Com 001H (06.06.24) Eddy County, New Mexico

JOB NUMBER

880-45845-1

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 7/12/2024 5:02:24 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 3

4

6

10

13

Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) Laboratory Job ID: 880-45845-1 SDG: Eddy County, New Mexico

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QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receint Checklists	21

3

4

6

8

11

13

Definitions/Glossary

Client: Carmona Resources Job ID: 880-45845-1 Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

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
CEL	Contains Free Liquid

Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid **DER**

Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

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 Job ID: 880-45845-1

Project: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-45845-1 Eurofins Midland

Job Narrative 880-45845-1

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 7/11/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-45845-1), S-2 (0-1') (880-45845-2) and S-3 (0-1') (880-45845-3).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85466 and analytical batch 880-85496 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-85496/6), (880-45845-A-1-B MS) and (880-45845-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-85466 and analytical batch 880-85496 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

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

HPLC/IC

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

Client: Carmona Resources

JICOS

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Lab Sample ID: 880-45845-1

SDG: Eddy County, New Mexico

Matrix: Solid

Job ID: 880-45845-1

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/11/24 16:16	07/11/24 16:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/11/24 16:16	07/11/24 16:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/11/24 16:16	07/11/24 16:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/11/24 16:16	07/11/24 16:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/11/24 16:16	07/11/24 16:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/11/24 16:16	07/11/24 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/11/24 16:16	07/11/24 16:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130				07/11/24 16:16	07/11/24 16:43	1

Method: IAL SOP Total BIEX	Iotal BIEX Calculat	ion					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396 U	0.00396	mg/Kg			07/11/24 16:43	1

Method: SW846 8015 NM - Die:	sel Range (Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	n	ng/Kg			07/11/24 17:53	1

	_	_	(DRO) (GC)			_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		07/11/24 12:58	07/11/24 17:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		07/11/24 12:58	07/11/24 17:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/11/24 12:58	07/11/24 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/11/24 12:58	07/11/24 17:53	1
o-Terphenyl	76		70 - 130				07/11/24 12:58	07/11/24 17:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18200		99.2	mg/Kg			07/11/24 20:07	20

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

Date Collected: 07/09/24 00:00

Date Received: 07/11/24 12:15

Lab Sample ID: 880-45845-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/11/24 16:16	07/11/24 17:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/11/24 16:16	07/11/24 17:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/11/24 16:16	07/11/24 17:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/11/24 16:16	07/11/24 17:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/11/24 16:16	07/11/24 17:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/11/24 16:16	07/11/24 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/11/24 16:16	07/11/24 17:03	1
1,4-Difluorobenzene (Surr)	89		70 - 130				07/11/24 16:16	07/11/24 17:03	1

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Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-45845-1

SDG: Eddy County, New Mexico

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

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15 Lab Sample ID: 880-45845-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/11/24 17:03	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	ma/Ka			07/11/24 18:39	

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

<49.9	U	49.9		mg/Kg		07/11/24 12:58	07/11/24 18:39	
							0.7.1.72.1.0.00	·
<49.9	U	49.9		mg/Kg		07/11/24 12:58	07/11/24 18:39	1
<49.9	U	49.9		mg/Kg		07/11/24 12:58	07/11/24 18:39	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	<49.9	<49.9 U <49.9 U **Recovery Qualifier**	<49.9 U 49.9	<49.9 U 49.9	<49.9 U 49.9 mg/Kg	<49.9 U 49.9 mg/Kg	<49.9 U 49.9 mg/Kg 07/11/24 12:58	<49.9 U 49.9 mg/Kg 07/11/24 12:58 07/11/24 18:39

Surrogate	%Recovery Qualifier	Limits	Prepared	Anaiyzea	DII Fac
1-Chlorooctane	82	70 - 130	07/11/24 12:58	07/11/24 18:39	1
o-Terphenyl	77	70 - 130	07/11/24 12:58	07/11/24 18:39	1
_					

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16800	99.2	mg/Kg			07/11/24 20:29	20

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

Date Collected: 07/09/24 00:00

Date Received: 07/11/24 12:15

1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-45845-3

07/11/24 16:16 07/11/24 17:24

Matrix: Solid

l	Method: SW846 8021B -	Volatile Organic Compounds (G	iC)
ı	Analysta	Popult Qualifier	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/11/24 16:16	07/11/24 17:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/11/24 16:16	07/11/24 17:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/11/24 16:16	07/11/24 17:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/11/24 16:16	07/11/24 17:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/11/24 16:16	07/11/24 17:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/11/24 16:16	07/11/24 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/11/24 16:16	07/11/24 17:24	1

Method: TAI	SOP Total	RTFX - Total	BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			07/11/24 17:24	1

70 - 130

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

mothodi otto to cono itin	Diocol Italigo	organico (Dito) (00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/11/24 18:55	1

Method: SW846 8015F	NM Discal Dange	Organica (DDO) (CC)
I MEHIOO. SYVOAD OUTSE	o Mivi - Diesei Rande	Organics (DRO) (GG)

Michiga: Offo-to of IOB Itim	Diesei italige	, Organics	(5110) (50)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		07/11/24 12:58	07/11/24 18:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		07/11/24 12:58	07/11/24 18:55	1
C10-C28)									

Released to Imaging: 8/26/2024 8:15:01 AM

Client Sample Results

Client: Carmona Resources

Job ID: 880-45845-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

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

Date Collected: 07/09/24 00:00
Date Received: 07/11/24 12:15

Lab Sample ID: 880-45845-3

Matrix: Solid

Method: SW846 8015B NM - I Analyte	_	Qualifier	RL	` MDL Ur		Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	m	ig/Kg	07/11/24 12:58	07/11/24 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			07/11/24 12:58	07/11/24 18:55	1
o-Terphenyl	71		70 - 130			07/11/24 12:58	07/11/24 18:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	r RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	17100	99.6	mg/Kg			07/11/24 20:36	20			

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Surrogate Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-45845-1

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Pei	cent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45845-1	S-1 (0-1')	103	88	
880-45845-2	S-2 (0-1')	110	89	
880-45845-3	S-3 (0-1')	106	88	
890-6921-A-9-C MS	Matrix Spike	99	93	
890-6921-A-9-D MSD	Matrix Spike Duplicate	95	95	
LCS 880-85419/1-A	Lab Control Sample	95	94	
LCSD 880-85419/2-A	Lab Control Sample Dup	95	94	
MB 880-85419/5-A	Method Blank	105	87	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		1CO1	OTPH1					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
880-45845-1	S-1 (0-1')	81	76					
880-45845-1 MS	S-1 (0-1')	81	69 S1-					
880-45845-1 MSD	S-1 (0-1')	82	69 S1-					
880-45845-2	S-2 (0-1')	82	77					
880-45845-3	S-3 (0-1')	75	71					
LCS 880-85466/2-A	Lab Control Sample	84	72					
LCSD 880-85466/3-A	Lab Control Sample Dup	87	74					
MB 880-85466/1-A	Method Blank	82	96					

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) Job ID: 880-45845-1

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-85419/5-A

Lab Sample ID: LCS 880-85419/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 85413

Analysis Batch: 85413

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 85419

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/24 08:20	07/11/24 10:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/24 08:20	07/11/24 10:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/24 08:20	07/11/24 10:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/24 08:20	07/11/24 10:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/24 08:20	07/11/24 10:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/24 08:20	07/11/24 10:33	1

MB MB

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	70 - 130	07/11/24 08:20	07/11/24 10:33	1
1,4-Difluorobenzene (Surr)	87	70 - 130	07/11/24 08:20	07/11/24 10:33	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85419

Prep Type: Total/NA

Prep Batch: 85419

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 70 - 130 0.100 0.1020 mg/Kg 102 Toluene 0.100 mg/Kg 70 - 130 0.09195 92 Ethylbenzene 0.100 0.09427 mg/Kg 94 70 - 130 0.200 m-Xylene & p-Xylene 0.1901 mg/Kg 95 70 - 130 o-Xylene 0.100 0.09588 mg/Kg 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 85413

Lab Sample ID: LCSD 880-85419/2-A

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1028		mg/Kg		103	70 - 130	1	35	
Toluene	0.100	0.09278		mg/Kg		93	70 - 130	1	35	
Ethylbenzene	0.100	0.09565		mg/Kg		96	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1929		mg/Kg		96	70 - 130	1	35	
o-Xylene	0.100	0.09713		mg/Kg		97	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 890-6921-A-9-C MS

Analysis Batch: 85413									Prep ly Prep I	pe: 10t/ Batch: 8	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.100	0.09589		mg/Kg		96	70 - 130		
Toluene	<0.00200	U	0.100	0.08497		mg/Kg		85	70 - 130		

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Client Sample ID: Matrix Spike

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QC Sample Results

Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) Job ID: 880-45845-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 890-6921-A-9-C MS

Lab Sample ID: 890-6921-A-9-D MSD

Matrix: Solid

Analysis Batch: 85413

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 85419

MS MS %Rec Sample Sample Spike Analyte **Result Qualifier** Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.100 0.08486 mg/Kg 85 70 - 130 m-Xylene & p-Xylene <0.00399 U 0.200 0.1697 mg/Kg 85 70 - 130o-Xylene <0.00200 U 0.100 0.08555 86 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 85413

Prep Type: Total/NA

Prep Batch: 85419

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00200 U 0.100 0.09618 mg/Kg 96 70 - 130 0 35 Toluene <0.00200 U 0.100 0.08517 85 70 - 130 35 mg/Kg Ethylbenzene <0.00200 U 0.100 0.08572 mg/Kg 86 70 - 130 35 m-Xylene & p-Xylene <0.00399 U 0.200 0.1714 mg/Kg 86 70 - 130 35 <0.00200 U 0.100 0.08657 87 o-Xylene mg/Kg 70 - 130

MSD MSD

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

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

Lab Sample ID: MB 880-85466/1-A

Matrix: Solid

Analysis Batch: 85496

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

Prep Batch: 85466

	IAID	IAID								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/11/24 11:58	07/11/24 12:30	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/11/24 11:58	07/11/24 12:30	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/11/24 11:58	07/11/24 12:30	1	

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/11/24 11:58	07/11/24 12:30	1
o-Terphenyl	96		70 - 130	07/11/24 11:58	07/11/24 12:30	1

Lab Sample ID: LCS 880-85466/2-A

Matrix: Solid

Analysis Batch: 85496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85466

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	874.8		mg/Kg		87	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	848.1		mg/Kg		85	70 - 130	
C10-C28)								

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-45845-1 SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-85466/2-A

Lab Sample ID: LCSD 880-85466/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 85496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85466

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130 o-Terphenyl 72 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 85466

Analysis Batch: 85496 LCSD LCSD RPD %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 917.2 mg/Kg 92 70 - 130 5 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 892.6 mg/Kg 89 70 - 130 5 20 C10-C28)

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 87 70 - 130 70 - 130 o-Terphenyl 74

Lab Sample ID: 880-45845-1 MS Client Sample ID: S-1 (0-1')

Matrix: Solid

Analysis Batch: 85496

Prep Type: Total/NA

Prep Batch: 85466

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <49.8 UF1 649.7 F1 Gasoline Range Organics 996 mg/Kg 65 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 996 <49.8 UF1 563.3 F1 mg/Kg 57 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 81 o-Terphenyl 69 S1-70 - 130

Lab Sample ID: 880-45845-1 MSD Client Sample ID: S-1 (0-1')

Matrix: Solid

Analysis Batch: 85496

Prep Type: Total/NA

Prep Batch: 85466 %Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec Gasoline Range Organics <49.8 U F1 996 660.4 F1 66 70 - 130 2 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 UF1 996 569.6 F1 mg/Kg 57 70 - 130 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 82 70 - 130 o-Terphenyl 69 S1-70 - 130

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-45845-1 SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-85471/1-A

Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 85484

MB MB

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac D Prepared 5.00 07/11/24 19:45 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-85471/2-A

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 85484

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 238.8 90 - 110 mg/Kg 96

Lab Sample ID: LCSD 880-85471/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 85484

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Limits **RPD** Limit Unit %Rec Chloride 250 240.1 96 90 - 110 20 mg/Kg

Lab Sample ID: 880-45845-1 MS Client Sample ID: S-1 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 85484

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 18200 4960 22700 90 - 110 mg/Kg

Lab Sample ID: 880-45845-1 MSD Client Sample ID: S-1 (0-1')

Matrix: Solid

Analysis Batch: 85484

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Unit %Rec Limits RPD Limit Result Qualifier Chloride 18200 4960 22690 91 90 - 110 20 mg/Kg 0

QC Association Summary

Client: Carmona Resources
Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-45845-1 SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 85413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45845-1	S-1 (0-1')	Total/NA	Solid	8021B	85419
880-45845-2	S-2 (0-1')	Total/NA	Solid	8021B	85419
880-45845-3	S-3 (0-1')	Total/NA	Solid	8021B	85419
MB 880-85419/5-A	Method Blank	Total/NA	Solid	8021B	85419
LCS 880-85419/1-A	Lab Control Sample	Total/NA	Solid	8021B	85419
LCSD 880-85419/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85419
890-6921-A-9-C MS	Matrix Spike	Total/NA	Solid	8021B	85419
890-6921-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	85419

Prep Batch: 85419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45845-1	S-1 (0-1')	Total/NA	Solid	5035	
880-45845-2	S-2 (0-1')	Total/NA	Solid	5035	
880-45845-3	S-3 (0-1')	Total/NA	Solid	5035	
MB 880-85419/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-85419/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-85419/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6921-A-9-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6921-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 85581

Lab Sample ID 880-45845-1	Client Sample ID S-1 (0-1')	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-45845-2	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-45845-3	S-3 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 85466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45845-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-45845-2	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-45845-3	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-85466/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85466/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45845-1 MS	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-45845-1 MSD	S-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45845-1	S-1 (0-1')	Total/NA	Solid	8015B NM	85466
880-45845-2	S-2 (0-1')	Total/NA	Solid	8015B NM	85466
880-45845-3	S-3 (0-1')	Total/NA	Solid	8015B NM	85466
MB 880-85466/1-A	Method Blank	Total/NA	Solid	8015B NM	85466
LCS 880-85466/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85466
LCSD 880-85466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85466
880-45845-1 MS	S-1 (0-1')	Total/NA	Solid	8015B NM	85466
880-45845-1 MSD	S-1 (0-1')	Total/NA	Solid	8015B NM	85466

Eurofins Midland

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QC Association Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-45845-1 SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 85560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45845-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-45845-2	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-45845-3	S-3 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 85471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45845-1	S-1 (0-1')	Soluble	Solid	DI Leach	_
880-45845-2	S-2 (0-1')	Soluble	Solid	DI Leach	
880-45845-3	S-3 (0-1')	Soluble	Solid	DI Leach	
MB 880-85471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-85471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45845-1 MS	S-1 (0-1')	Soluble	Solid	DI Leach	
880-45845-1 MSD	S-1 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 85484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45845-1	S-1 (0-1')	Soluble	Solid	300.0	85471
880-45845-2	S-2 (0-1')	Soluble	Solid	300.0	85471
880-45845-3	S-3 (0-1')	Soluble	Solid	300.0	85471
MB 880-85471/1-A	Method Blank	Soluble	Solid	300.0	85471
LCS 880-85471/2-A	Lab Control Sample	Soluble	Solid	300.0	85471
LCSD 880-85471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85471
880-45845-1 MS	S-1 (0-1')	Soluble	Solid	300.0	85471
880-45845-1 MSD	S-1 (0-1')	Soluble	Solid	300.0	85471

Eurofins Midland

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Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1') Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15

Lab Sample ID: 880-45845-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	85419	07/11/24 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85413	07/11/24 16:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85581	07/11/24 16:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			85560	07/11/24 17:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85466	07/11/24 12:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85496	07/11/24 17:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	85484	07/11/24 20:07	CH	EET MID

Lab Sample ID: 880-45845-2 Client Sample ID: S-2 (0-1') Date Collected: 07/09/24 00:00 **Matrix: Solid**

Date Received: 07/11/24 12:15

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 85419 07/11/24 16:16 MNR EET MID Prep 4.95 g 5 mL Total/NA 8021B 5 mL 07/11/24 17:03 MNR **EET MID** Analysis 5 mL 85413 1 Total/NA Total BTEX Analysis 1 85581 07/11/24 17:03 SM **EET MID** Total/NA 8015 NM 85560 **EET MID** Analysis 1 07/11/24 18:39 SM Total/NA Prep 8015NM Prep 10.03 g 10 mL 85466 07/11/24 12:58 EL **EET MID** Total/NA 8015B NM Analysis 1 uL 1 uL 85496 07/11/24 18:39 TKC **EET MID** Soluble 5.04 g 50 mL 85471 Leach DI Leach 07/11/24 13:18 CH **EET MID** 300.0 07/11/24 20:29 CH Soluble Analysis 20 50 mL 50 mL 85484 **EET MID**

Client Sample ID: S-3 (0-1') Lab Sample ID: 880-45845-3 Date Collected: 07/09/24 00:00 Matrix: Solid

Date Received: 07/11/24 12:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	85419	07/11/24 16:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85413	07/11/24 17:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85581	07/11/24 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			85560	07/11/24 18:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85466	07/11/24 12:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85496	07/11/24 18:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	85484	07/11/24 20:36	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources Job ID: 880-45845-1 Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAP		T104704400	06-30-25
The following analyte	s are included in this rene	rt but the laboratory is r	not certified by the governing author	ity. This list may inc
The following analyte	s are included in this repo	it, but the laboratory is i	not certified by the governing author	ity. Triis list may inc
0 ,	does not offer certification		lot certified by the governing author	ity. This list may inc
0 ,	•		Analyte	ity. This list may inc
for which the agency	does not offer certification	I.	, , ,	ity. This list may inc

Method Summary

Client: Carmona Resources

Method

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Description

Total BTEX Calculation

Job ID: 880-45845-1 SDG: Eddy County, New Mexico

EET MID

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID
SW846	EET MID
SW846	EET MID

ASTM

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

Eurofins Midland

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Sample Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-45845-1 SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45845-1	S-1 (0-1')	Solid	07/09/24 00:00	07/11/24 12:15
880-45845-2	S-2 (0-1')	Solid	07/09/24 00:00	07/11/24 12:15
880-45845-3	S-3 (0-1')	Solid	07/09/24 00:00	07/11/24 12:15

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()	2	Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com					S-3 (0-1')	S-2 (0-1')	S-1 (0-1)	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #:	Sampler's Name:	Project Location	Project Number:	Project Name:		e ZIP:		Company Name:	Project Manager:
tour	0	to Mike Cam					3	1)	1)	tification		ls: Yes	s: Yes	1				Edo		Cottonm	432-813-6823	Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Conner Moehring
*	Relinquished	nona / Mcarmo					7/9/2024	7/9/2024	7/9/2024	Date		Nd N/A	No NIA	Yes No	Temp Blank:		FV	Eddy County, New Mexico	2417	Cottonmouth 23 Federal Com 001H (06.06.24)		9701	t Ste 500	ources	ing
	Relinquished by: (Signature)	ona@carmonar								Time	Corrected Temperature:	Temperature Reading:	Correction Factor.	Thermometer ID:	Yes No	1		Mexico		al Com 001H					
		esources.com a					×	×	×	Soil	erature:	ading:	7		Wet Ice:			Due Date:	Routine	Tun	Emai				
		nd Conner h								Water G	1 -1.5	-1.7	. 11	H	Yes No			72 HR	Rush	Turn Around	Email: mcarmona@carmonaresources.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
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47/11/1	Date/Time	Cmoeh	H			+	×	×	×	7		E	STE>	< 802	1B		_				resource	-			Cam
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1	1									Samp	OH+Asc	Acetate	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO NABIS	H ₃ PO ₄ : HP	H ₂ SO ₄ : H ₂	HCL: HC	Coal: Coal	None: NO	Prese		T RRP		Program: UST/PST PRP Brownfields RRC	nments
mo !!	Date/Time									Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	aSO ₃	ABIS		Nac	IN	Med	DI	Preservative Codes	Other:				
DC	Time									nents	SAPC	2				NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂	odes		Level IV		_uperfund	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-45845-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

Login Number: 45845 List Number: 1

Creator: Vasquez, Julisa

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Cottonmouth 23 Fed Com 001H (06.06.24) Eddy County, New Mexico

JOB NUMBER

880-45847-1

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

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Client: Carmona Resources Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24) Laboratory Job ID: 880-45847-1 SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources Job ID: 880-45847-1 Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24) SDG: Eddy County, New Mexico

Qualifiers

GC VOA	
Qualifier	

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossarv

<u> </u>	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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)

DI	Reporting Limit or Requested Limit (Radiochemistry)
IXL	Reporting Little of Requested Little (Radiochemistry)

		•	`	• ,	
RPD	Relative Percent	Difference, a ı	measure of the	e relative difference	between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-45847-1

Project: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1 Eurofins Midland

Job Narrative 880-45847-1

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 7/11/2024 12:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-1 (0-0.5') (880-45847-1), H-2 (0-0.5') (880-45847-2), H-3 (0-0.5') (880-45847-3), H-4 (0-0.5') (880-45847-4), H-5 (0-0.5') (880-45847-5) and H-6(0-0.5') (880-45847-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-85487 and analytical batch 880-85291 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85466 and analytical batch 880-85496 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-2 (0-0.5') (880-45847-2), (CCV 880-85496/6), (880-45845-A-1-B MS) and (880-45845-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-85466 and analytical batch 880-85496 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85546 and analytical batch 880-85578 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (880-45775-A-12-B MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-85546 and analytical batch 880-85578 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

Eurofins Midland

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Case Narrative

Client: Carmona Resources Job ID: 880-45847-1

Project: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1 (Continued)

Eurofins Midland

HPLC/IC

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

Client Sample Results

Client: Carmona Resources

Job ID: 880-45847-1 Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24) SDG: Eddy County, New Mexico

Lab Sample ID: 880-45847-1 **Client Sample ID: H-1 (0-0.5')**

Date Collected: 07/09/24 00:00 Matrix: Solid Date Received: 07/11/24 12:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/12/24 01:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/12/24 01:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/12/24 01:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/11/24 14:49	07/12/24 01:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/12/24 01:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/11/24 14:49	07/12/24 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130				07/11/24 14:49	07/12/24 01:36	1
1,4-Difluorobenzene (Surr)	89		70 - 130				07/11/24 14:49	07/12/24 01:36	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/12/24 01:36	1
	•	. , ,	GC)		0 0				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	•	MDL		<u>D</u>	Prepared	Analyzed 07/11/24 20:25	
Analyte	Result <49.8	Qualifier U	RL 49.8	MDL	Unit	<u>D</u>	Prepared		
Analyte Total TPH	Result <49.8	Qualifier U	RL 49.8		Unit	D_	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8		Unit mg/Kg		· · ·	07/11/24 20:25	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)		Unit mg/Kg		Prepared	07/11/24 20:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)		Unit mg/Kg		Prepared	07/11/24 20:25 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/24 12:58 07/11/24 12:58	07/11/24 20:25 Analyzed 07/11/24 20:25 07/11/24 20:25	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 Sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 07/11/24 12:58	07/11/24 20:25 Analyzed 07/11/24 20:25	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/24 12:58 07/11/24 12:58	07/11/24 20:25 Analyzed 07/11/24 20:25 07/11/24 20:25	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/24 12:58 07/11/24 12:58 07/11/24 12:58	07/11/24 20:25 Analyzed 07/11/24 20:25 07/11/24 20:25 07/11/24 20:25	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/24 12:58 07/11/24 12:58 07/11/24 12:58 Prepared	07/11/24 20:25 Analyzed 07/11/24 20:25 07/11/24 20:25 07/11/24 20:25 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/24 12:58 07/11/24 12:58 07/11/24 12:58 Prepared 07/11/24 12:58	07/11/24 20:25 Analyzed 07/11/24 20:25 07/11/24 20:25 Analyzed 07/11/24 20:25	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/24 12:58 07/11/24 12:58 07/11/24 12:58 Prepared 07/11/24 12:58	07/11/24 20:25 Analyzed 07/11/24 20:25 07/11/24 20:25 Analyzed 07/11/24 20:25	Dil Fac

Client Sample ID: H-2 (0-0.5') Lab Sample ID: 880-45847-2 **Matrix: Solid**

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/12/24 02:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/12/24 02:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/12/24 02:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/11/24 14:49	07/12/24 02:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/11/24 14:49	07/12/24 02:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/11/24 14:49	07/12/24 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				07/11/24 14:49	07/12/24 02:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/11/24 14:49	07/12/24 02:03	1

Client Sample Results

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15

Lab Sample ID: 880-45847-2

Matrix: Solid

Amalusta	Desuit	Qualifier	RL	MDL	I Imia	D	Duamanad	Amalumad	Dil Fac
Analyte				MDL		— Б	Prepared	Analyzed	DII Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/12/24 02:03	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/11/24 20:40	1
Method: SW846 8015B NM - Dies	ol Bango Orgo	nice (DBO)	(60)						
Analyte	• •	Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		07/11/24 12:58	07/11/24 20:40	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		07/11/24 12:58	07/11/24 20:40	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/11/24 12:58	07/11/24 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				07/11/24 12:58	07/11/24 20:40	1
o-Terphenyl	68	S1-	70 - 130				07/11/24 12:58	07/11/24 20:40	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	•						
Analyte		Qualifier	e RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
And J. Co.	Result	Gaunner		1010	J.III		7 Toparca	Allalyzou	

Client Sample ID: H-3 (0-0.5') Lab Sample ID: 880-45847-3 **Matrix: Solid**

Date Collected: 07/09/24 00:00

Date Received: 07/11/24 12:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/12/24 02:30	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/12/24 02:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/12/24 02:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/11/24 14:49	07/12/24 02:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/12/24 02:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/11/24 14:49	07/12/24 02:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				07/11/24 14:49	07/12/24 02:30	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 ₋ 130 R L	MDL	Unit	D	07/11/24 14:49 Prepared	07/12/24 02:30 Analyzed	
, ,		culation	70 - 130				07/11/24 14:49	07/12/24 02:30	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 07/12/24 02:30	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.7	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.7		mg/Kg		Prepared	Analyzed 07/12/24 02:30 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.7 diesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.7	MDL	mg/Kg		Prepared	Analyzed 07/12/24 02:30 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.7 diesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 49.7	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 07/12/24 02:30 Analyzed 07/12/24 17:46	Dil Fac

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45847-3

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/12/24 10:17	07/12/24 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/12/24 10:17	07/12/24 17:46	1
o-Terphenyl	79		70 - 130				07/12/24 10:17	07/12/24 17:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 35.3 5.05 07/11/24 21:50 mg/Kg

Client Sample ID: H-4 (0-0.5') Lab Sample ID: 880-45847-4 Date Collected: 07/09/24 00:00 **Matrix: Solid**

Date Received: 07/11/24 12:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 02:56	
Toluene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 02:56	,
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 02:56	•
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/11/24 14:49	07/12/24 02:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/11/24 14:49	07/12/24 02:56	•
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/11/24 14:49	07/12/24 02:56	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				07/11/24 14:49	07/12/24 02:56	
1,4-Difluorobenzene (Surr)	82		70 - 130				07/11/24 14:49	07/12/24 02:56	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/12/24 02:56	
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/12/24 18:03	
Analyte Total TPH	Result <49.7	Qualifier U	RL 49.7	MDL		<u> </u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.7	Qualifier U	RL 49.7			<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.7	Qualifier Unics (DRO) Qualifier	RL 49.7		mg/Kg	<u> </u>		07/12/24 18:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.7 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *1	RL 49.7 (GC)		mg/Kg	<u> </u>	Prepared	07/12/24 18:03 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7 sel Range Orga Result <49.7	Qualifier U nics (DRO) Qualifier U *1	RL 49.7 (GC) RL 49.7		mg/Kg Unit mg/Kg	<u> </u>	Prepared 07/12/24 10:17	07/12/24 18:03 Analyzed 07/12/24 18:03	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.7 sel Range Orga Result <49.7 <49.7	Qualifier U nics (DRO) Qualifier U *1	RL 49.7 (GC) RL 49.7 49.7		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/12/24 10:17 07/12/24 10:17	07/12/24 18:03 Analyzed 07/12/24 18:03 07/12/24 18:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.7 (GC) RL 49.7 49.7 49.7		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/12/24 10:17 07/12/24 10:17 07/12/24 10:17	07/12/24 18:03 Analyzed 07/12/24 18:03 07/12/24 18:03 07/12/24 18:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.7	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/12/24 10:17 07/12/24 10:17 07/12/24 10:17 Prepared	07/12/24 18:03 Analyzed 07/12/24 18:03 07/12/24 18:03 07/12/24 18:03 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.7	Qualifier U nics (DRO) Qualifier U *1 U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/12/24 10:17 07/12/24 10:17 07/12/24 10:17 Prepared 07/12/24 10:17	07/12/24 18:03 Analyzed 07/12/24 18:03 07/12/24 18:03 07/12/24 18:03 Analyzed 07/12/24 18:03	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7	Qualifier U nics (DRO) Qualifier U *1 U Qualifier	RL 49.7 (GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/12/24 10:17 07/12/24 10:17 07/12/24 10:17 Prepared 07/12/24 10:17	07/12/24 18:03 Analyzed 07/12/24 18:03 07/12/24 18:03 07/12/24 18:03 Analyzed 07/12/24 18:03	Dil Fac

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15 Lab Sample ID: 880-45847-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/12/24 03:23	1
Toluene	< 0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/12/24 03:23	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/12/24 03:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/11/24 14:49	07/12/24 03:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/11/24 14:49	07/12/24 03:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/11/24 14:49	07/12/24 03:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				07/11/24 14:49	07/12/24 03:23	1
1,4-Difluorobenzene (Surr)	82		70 - 130				07/11/24 14:49	07/12/24 03:23	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/12/24 03:23	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/12/24 18:38	
Analyte	Result <49.8	Qualifier U	RL 49.8	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.8	Qualifier U	RL 49.8			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8		mg/Kg		<u> </u>	07/12/24 18:38	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *1	(GC)		mg/Kg		Prepared	07/12/24 18:38 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 Sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U *1	RL 49.8 (GC) RL 49.8		mg/Kg Unit mg/Kg		Prepared 07/12/24 10:17	07/12/24 18:38 Analyzed 07/12/24 18:38	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.8 (GC) RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/24 10:17 07/12/24 10:17	07/12/24 18:38 Analyzed 07/12/24 18:38 07/12/24 18:38	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.8 (GC) RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/24 10:17 07/12/24 10:17 07/12/24 10:17	07/12/24 18:38 Analyzed 07/12/24 18:38 07/12/24 18:38 07/12/24 18:38	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/24 10:17 07/12/24 10:17 07/12/24 10:17 Prepared	07/12/24 18:38 Analyzed 07/12/24 18:38 07/12/24 18:38 07/12/24 18:38 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U nics (DRO) Qualifier U *1 U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/24 10:17 07/12/24 10:17 07/12/24 10:17 Prepared 07/12/24 10:17	07/12/24 18:38 Analyzed 07/12/24 18:38 07/12/24 18:38 07/12/24 18:38 Analyzed 07/12/24 18:38	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U *1 U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/24 10:17 07/12/24 10:17 07/12/24 10:17 Prepared 07/12/24 10:17	07/12/24 18:38 Analyzed 07/12/24 18:38 07/12/24 18:38 07/12/24 18:38 Analyzed 07/12/24 18:38	1 Dil Fac

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

Date Collected: 07/09/24 00:00

Matrix: Solid

Date Received: 07/11/24 12:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/12/24 03:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/12/24 03:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/12/24 03:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/11/24 14:49	07/12/24 03:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/11/24 14:49	07/12/24 03:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/11/24 14:49	07/12/24 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				07/11/24 14:49	07/12/24 03:49	1
1.4-Difluorobenzene (Surr)	97		70 - 130				07/11/24 14:49	07/12/24 03:49	1

Client Sample Results

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1 SDG: Eddy County, New Mexico

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

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15

Lab Sample ID: 880-45847-6

Matrix: Solid

Method: TAL SOP Total BTEX - T Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		<u>.</u>	07/12/24 03:49	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/12/24 18:55	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0		mg/Kg		07/12/24 10:17	07/12/24 18:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 18:55	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/12/24 10:17	07/12/24 18:55	1
o-Terphenyl -	77		70 - 130				07/12/24 10:17	07/12/24 18:55	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.4		5.00		mg/Kg			07/11/24 22:41	

Surrogate Summary

Client: Carmona Resources Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45847-1	H-1 (0-0.5')	150 S1+	89	
380-45847-2	H-2 (0-0.5')	143 S1+	100	
380-45847-3	H-3 (0-0.5')	134 S1+	78	
380-45847-4	H-4 (0-0.5')	133 S1+	82	
380-45847-5	H-5 (0-0.5')	131 S1+	82	
380-45847-6	H-6(0-0.5')	159 S1+	97	
880-45849-A-1-C MS	Matrix Spike	128	99	
380-45849-A-1-D MSD	Matrix Spike Duplicate	125	89	
CS 880-85487/1-A	Lab Control Sample	124	86	
CSD 880-85487/2-A	Lab Control Sample Dup	108	94	
MB 880-85487/5-A	Method Blank	74	90	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45775-A-12-B MS	Matrix Spike	69 S1-	97	
880-45775-A-12-C MSD	Matrix Spike Duplicate	70	96	
880-45845-A-1-B MS	Matrix Spike	81	69 S1-	
880-45845-A-1-C MSD	Matrix Spike Duplicate	82	69 S1-	
880-45847-1	H-1 (0-0.5')	84	75	
880-45847-2	H-2 (0-0.5')	76	68 S1-	
880-45847-3	H-3 (0-0.5')	91	79	
880-45847-4	H-4 (0-0.5')	93	80	
880-45847-5	H-5 (0-0.5')	104	87	
880-45847-6	H-6(0-0.5')	92	77	
LCS 880-85466/2-A	Lab Control Sample	84	72	
LCS 880-85546/2-A	Lab Control Sample	93	84	
LCSD 880-85466/3-A	Lab Control Sample Dup	87	74	
LCSD 880-85546/3-A	Lab Control Sample Dup	94	88	
MB 880-85466/1-A	Method Blank	82	96	
MB 880-85546/1-A	Method Blank	115	120	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources

Job ID: 880-45847-1

SDG: Eddy County, New Mexico Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-85487/5-A

Analysis Batch: 85291

Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 85487

MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/24 14:49	07/11/24 17:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/24 14:49	07/11/24 17:37	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74	70 - 130	07/11/24 14:4	07/11/24 17:37	1
1,4-Difluorobenzene (Surr)	90	70 - 130	07/11/24 14:4	9 07/11/24 17:37	1

Lab Sample ID: LCS 880-85487/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 85291

Prep Type: Total/NA Prep Batch: 85487

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1111 mg/Kg 111 70 - 130 Toluene 0.100 0.1114 mg/Kg 111 70 - 130 0.100 0.1088 Ethylbenzene mg/Kg 109 70 - 130 0.200 0.2345 70 - 130 m-Xylene & p-Xylene mg/Kg 117 0.100 0.1136 70 - 130 o-Xylene mg/Kg 114

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-85487/2-A

Matrix: Solid

Analysis Batch: 85291

Client San	iple ID: Lal	Control	Sample	Dup
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Prep Type: Total/NA

Prep Batch: 85487

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1270		mg/Kg		127	70 - 130	13	35	
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	0	35	
Ethylbenzene	0.100	0.1080		mg/Kg		108	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2323		mg/Kg		116	70 - 130	1	35	
o-Xylene	0.100	0.1131		mg/Kg		113	70 - 130	0	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1.4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-45849-A-1-C MS

Matrix: Solid

Analysis Batch: 85291

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

Prep Batch: 85487

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1 F2	0.101	0.05671	F1	mg/Kg		56	70 - 130	
Toluene	< 0.00199	U F1 F2	0.101	0.04931	F1	mg/Kg		49	70 - 130	

QC Sample Results

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45849-A-1-C MS

Lab Sample ID: 880-45849-A-1-D MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 85291

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 85487

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U F1 F2	0.101	0.05103	F1	mg/Kg		51	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.202	0.1096	F1	mg/Kg		54	70 - 130	
o-Xylene	<0.00199	U F1 F2	0.101	0.05423	F1	mg/Kg		54	70 - 130	

MS MS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 85487

RPD

Analysis Batch: 85291 Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.0992 Benzene <0.00199 U F1 F2 0.1030 F2 mg/Kg 104 70 - 130 58 35 0.0992 Toluene <0.00199 UF1F2 0.09961 F2 mg/Kg 100 70 - 130 68 35 Ethylbenzene <0.00199 UF1F2 0.0992 0.09775 F2 99 70 - 130 63 35 mg/Kg <0.00398 UF1F2 0.198 0.2102 F2 70 - 130 m-Xylene & p-Xylene mg/Kg 106 63 35 <0.00199 U F1 F2 0.0992 0.1027 F2 104 70 - 130 62 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

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

Lab Sample ID: MB 880-85466/1-A

Matrix: Solid

Analysis Batch: 85496

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 85466

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	i	mg/Kg		07/11/24 11:58	07/11/24 12:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	I	mg/Kg		07/11/24 11:58	07/11/24 12:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	1	mg/Kg		07/11/24 11:58	07/11/24 12:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/11/24 11:58	07/11/24 12:30	1
o-Terphenyl	96		70 - 130	07/11/24 11:58	07/11/24 12:30	1

Lab Sample ID: LCS 880-85466/2-A

Matrix: Solid

Analysis Batch: 85496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85466

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	874.8		mg/Kg		87	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	848.1		mg/Kg		85	70 - 130	
C10-C28)								

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-85466/2-A

Lab Sample ID: LCSD 880-85466/3-A

Matrix: Solid

Analysis Batch: 85496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 85466

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130 o-Terphenyl 72 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 85496 Prep Batch: 85466 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit

1000 917.2 92 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 892.6 89 mg/Kg 70 - 1305 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 880-45845-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 85496

Prep Type: Total/NA

Prep Batch: 85466

MS MS Sample Sample Spike Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U F1 996 649.7 F1 mg/Kg 65 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 UF1 996 563.3 F1 mg/Kg 57 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 81 70 - 130 o-Terphenyl 69 S1-

Lab Sample ID: 880-45845-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 85496

Prep Type: Total/NA

Prep Batch: 85466 RPD %Rec

Sample Sample MSD MSD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U F1 996 660.4 F1 Gasoline Range Organics <49.8 66 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U F1 996 569.6 F1 mg/Kg 57 70 - 130 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 82 70 - 130 69 S1-70 - 130 o-Terphenyl

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-85546/1-A

Matrix: Solid

Analysis Batch: 85578

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 85546

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 12:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 12:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/24 10:17	07/12/24 12:31	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				07/12/24 10:17	07/12/24 12:31	1
o-Terphenyl	120		70 - 130				07/12/24 10:17	07/12/24 12:31	1

Lab Sample ID: LCS 880-85546/2-A

Matrix: Solid

Analysis Batch: 85578

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 85546

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 916.6 mg/Kg 92 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 815.9 mg/Kg 82 70 - 130C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 93 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: LCSD 880-85546/3-A

Matrix: Solid

Analysis Batch: 85578

Client Sample II	D: Lab Control	Sample Dup
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Prep Type: Total/NA

Prep Batch: 85546

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1128	*1	mg/Kg		113	70 - 130	21	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	972.7		mg/Kg		97	70 - 130	18	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-45775-A-12-B MS

Matrix: Solid

Analysis Batch: 85578

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 85546

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U *1	997	748.9		mg/Kg		75	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	2700	F1	997	2884	F1	mg/Kg		19	70 - 130	
C10-C28)										

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-45775-A-12-B MS **Matrix: Solid**

Analysis Batch: 85578

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 85546

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 69 S1-70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: 880-45775-A-12-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 85578

Prep Type: Total/NA

Prep Batch: 85546

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <50.0 U *1 997 758.5 76 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 997 3005 F1 2700 F1 mg/Kg 31 70 - 13020 C10-C28)

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

мв мв

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-85471/1-A

Matrix: Solid

Analysis Batch: 85484

Client Sample ID: Method Blank **Prep Type: Soluble**

Client Sample ID: Lab Control Sample

Analyte Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 07/11/24 19:45

Lab Sample ID: LCS 880-85471/2-A

Matrix: Solid

Analysis Batch: 85484

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 238.8 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-85471/3-A

Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 85484

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 240.1 96 90 - 110 20 mg/Kg

Lab Sample ID: 880-45847-3 MS

Matrix: Solid

Analysis Batch: 85484

Alialysis Dalcii. 00404										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	35.3		253	280.5		mg/Kg	_	97	90 - 110	

Eurofins Midland

Prep Type: Soluble

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

Prep Type: Soluble

C

Released to Imaging: 8/26/2024 8:15:01 AM

QC Sample Results

Client: Carmona Resources Job ID: 880-45847-1 Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-45847-3 MSD **Client Sample ID: H-3 (0-0.5')**

Matrix: Solid Prep Type: Soluble Analysis Batch: 85484

RPD Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Chloride 35.3 253 280.7 mg/Kg 97 90 - 110 0 20

QC Association Summary

Client: Carmona Resources

Job ID: 880-45847-1 Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24) SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 85291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-1	H-1 (0-0.5')	Total/NA	Solid	8021B	85487
880-45847-2	H-2 (0-0.5')	Total/NA	Solid	8021B	85487
880-45847-3	H-3 (0-0.5')	Total/NA	Solid	8021B	85487
880-45847-4	H-4 (0-0.5')	Total/NA	Solid	8021B	85487
880-45847-5	H-5 (0-0.5')	Total/NA	Solid	8021B	85487
880-45847-6	H-6(0-0.5')	Total/NA	Solid	8021B	85487
MB 880-85487/5-A	Method Blank	Total/NA	Solid	8021B	85487
LCS 880-85487/1-A	Lab Control Sample	Total/NA	Solid	8021B	85487
LCSD 880-85487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	85487
880-45849-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	85487
880-45849-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	85487

Prep Batch: 85487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-45847-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-45847-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-45847-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-45847-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-45847-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-45847-6	H-6(0-0.5')	Total/NA	Solid	5035	
MB 880-85487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-85487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-85487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45849-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-45849-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 85594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45847-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45847-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45847-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45847-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-45847-6	H-6(0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 85466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45847-2	0-45847-2 H-2 (0-0.5')		Solid	8015NM Prep	
MB 880-85466/1-A Method Blank		Total/NA	Solid	8015NM Prep	
LCS 880-85466/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45845-A-1-B MS Matrix Spike		Total/NA	Solid	8015NM Prep	
880-45845-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	85466
880-45847-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	85466

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QC Association Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 85496 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-85466/1-A	Method Blank	Total/NA	Solid	8015B NM	85466
LCS 880-85466/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85466
LCSD 880-85466/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85466
880-45845-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	85466
880-45845-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	85466

Prep Batch: 85546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-3	H-3 (0-0.5') Total/NA		Solid	8015NM Prep	
880-45847-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45847-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-45847-6	45847-6 H-6(0-0.5')		Solid	8015NM Prep	
MB 880-85546/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85546/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45775-A-12-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-45775-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-45847-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-45847-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-45847-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-45847-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-45847-6	H-6(0-0.5')	Total/NA	Solid	8015 NM	

Analysis Batch: 85578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	85546
880-45847-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	85546
880-45847-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	85546
880-45847-6	H-6(0-0.5')	Total/NA	Solid	8015B NM	85546
MB 880-85546/1-A	Method Blank	Total/NA	Solid	8015B NM	85546
LCS 880-85546/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85546
LCSD 880-85546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85546
880-45775-A-12-B MS	Matrix Spike	Total/NA	Solid	8015B NM	85546
880-45775-A-12-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	85546

HPLC/IC

Leach Batch: 85471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-45847-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-45847-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-45847-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-45847-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-45847-6	H-6(0-0.5')	Soluble	Solid	DI Leach	
MB 880-85471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1 SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 85471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-85471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45847-3 MS	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-45847-3 MSD	H-3 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 85484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45847-1	H-1 (0-0.5')	Soluble	Solid	300.0	85471
880-45847-2	H-2 (0-0.5')	Soluble	Solid	300.0	85471
880-45847-3	H-3 (0-0.5')	Soluble	Solid	300.0	85471
880-45847-4	H-4 (0-0.5')	Soluble	Solid	300.0	85471
880-45847-5	H-5 (0-0.5')	Soluble	Solid	300.0	85471
880-45847-6	H-6(0-0.5')	Soluble	Solid	300.0	85471
MB 880-85471/1-A	Method Blank	Soluble	Solid	300.0	85471
LCS 880-85471/2-A	Lab Control Sample	Soluble	Solid	300.0	85471
LCSD 880-85471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85471
880-45847-3 MS	H-3 (0-0.5')	Soluble	Solid	300.0	85471
880-45847-3 MSD	H-3 (0-0.5')	Soluble	Solid	300.0	85471

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Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15

Lab Sample ID: 880-45847-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/12/24 01:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85594	07/12/24 01:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			85562	07/11/24 20:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85466	07/11/24 12:58	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85496	07/11/24 20:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85484	07/11/24 21:35	CH	EET MID

Client Sample ID: H-2 (0-0.5') Lab Sample ID: 880-45847-2

Date Collected: 07/09/24 00:00

Date Received: 07/11/24 12:15

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.95 g 5 mL 85487 07/11/24 14:49 EL EET MID Total/NA 8021B 5 mL 07/12/24 02:03 **EET MID** Analysis 1 5 mL 85291 MNR Total/NA Total BTEX 85594 07/12/24 02:03 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 85562 07/11/24 20:40 SM **EET MID** Total/NA 85466 07/11/24 12:58 Prep 8015NM Prep 10.04 g 10 mL FΙ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 85496 07/11/24 20:40 TKC **EET MID** Soluble Leach 85471 07/11/24 13:18 СН DI Leach 5.00 g 50 mL EET MID Soluble Analysis 300.0 50 mL 50 mL 85484 07/11/24 21:43 СН **EET MID**

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

Date Collected: 07/09/24 00:00

Date Received: 07/11/24 12:15

Lab Sample ID: 880-45847-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/12/24 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85594	07/12/24 02:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			85562	07/12/24 17:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 17:46	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	85471	07/11/24 13:18	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85484	07/11/24 21:50	CH	EET MID

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

Date Collected: 07/09/24 00:00

Date Received: 07/11/24 12:15

Lab Sample ID: 880-45847-4 **Matrix: Solid**

	Ва	atch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Ty	/pe Ty	/pe	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/N	A Pr	rep	5035			5.05 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/N	A Ar	nalysis	8021B		1	5 mL	5 mL	85291	07/12/24 02:56	MNR	EET MID
Total/N	A Ar	nalysis	Total BTEX		1			85594	07/12/24 02:56	SM	EET MID

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Released to Imaging: 8/26/2024 8:15:01 AM

Lab Chronicle

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

SDG: Eddy County, New Mexico

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

Date Collected: 07/09/24 00:00 Date Received: 07/11/24 12:15

Lab Sample ID: 880-45847-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			85562	07/12/24 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 18:03	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	85471	07/11/24 13:18	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85484	07/11/24 22:12	CH	EET MID

Lab Sample ID: 880-45847-5

Date Collected: 07/09/24 00:00

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

Date Received: 07/11/24 12:15

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/12/24 03:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85594	07/12/24 03:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			85562	07/12/24 18:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 18:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	85471	07/11/24 13:18	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85484	07/11/24 22:19	CH	EET MID

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

Date Collected: 07/09/24 00:00

Date Received: 07/11/24 12:15

Lab Sample ID: 880-45847-6

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	85487	07/11/24 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	85291	07/12/24 03:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			85594	07/12/24 03:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			85562	07/12/24 18:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	85546	07/12/24 10:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	85578	07/12/24 18:55	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	85471	07/11/24 13:18	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85484	07/11/24 22:41	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-45847-1 SDG: Eddy County New Mexico

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24) SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	ım	Identification Number	Expiration Date
Texas	NELAF)	T104704400	06-30-25
0 ,	• •	t the laboratory is not certif	ied by the governing authority. This lis	t may include analyte
for which the agency o	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1

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
3015NM 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: Cottonmouth 23 Fed Com 001H (06.06.24)

Job ID: 880-45847-1 SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-45847-1	H-1 (0-0.5')	Solid	07/09/24 00:00	07/11/24 12:15
880-45847-2	H-2 (0-0.5')	Solid	07/09/24 00:00	07/11/24 12:15
880-45847-3	H-3 (0-0.5')	Solid	07/09/24 00:00	07/11/24 12:15
880-45847-4	H-4 (0-0.5')	Solid	07/09/24 00:00	07/11/24 12:15
880-45847-5	H-5 (0-0.5')	Solid	07/09/24 00:00	07/11/24 12:15
880-45847-6	H-6(0-0.5')	Solid	07/09/24 00:00	07/11/24 12:15

Company Name Cammon's Resources Company Name Cammon's Resources Campany Name Campany	Company Name Comp	Common Resources Common Reso		Conner Moehring			Bill to: (if different)	(Jus	Carmor	Carmona Resources	SS		W	Work Order Comments	omments	
10 W Wall St Ste 500	State of Project Authorities Size 500 A	State of Project Maintain Carmonal No. Sign 800 Author 17 77701 Author 17 77		nona Resources			Company Na	me:					Program: UST/PST PI	RP Brown		uperfund
Midiand TX 19701 Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 Email Midiand TX 19701 TX 19701	Middland TX 79701 Midd	Address Transfer Continue		W Wall St Ste 500			Address:						State of Project:			
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Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-45847-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

Login Number: 45847 List Number: 1

Creator: Vasquez, Julisa

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/8/2024 3:41:37 PM

JOB DESCRIPTION

Cottonmouth 23 Federal Com 001H (06.06.24) Eddy County, New Mexico

JOB NUMBER

880-46991-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 8/8/2024 3:41:37 PM

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

Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) Laboratory Job ID: 880-46991-1 SDG: Eddy County, New Mexico

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Definitions/Glossary

Job ID: 880-46991-1 Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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 MLMinimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

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)

Relative Percent Difference, a measure of the relative difference between two points RPD

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-46991-1

Project: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 Eurofins Midland

Job Narrative 880-46991-1

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

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

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

Receipt

The samples were received on 8/7/2024 3:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.3°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS-2 (2') (880-46991-2). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The closing continuing calibration verification (CCVC) associated with batch 880-87806 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87806 exhibited % difference of > 20% for the following analyte(s)Diesel Range Organics (Over C10-C28). These results are within the labs acceptance limits but exceed the performance criteria.

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

HPLC/IC

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

Eurofins Midland

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Client Sample ID: CS-1 (2') Date Collected: 08/06/24 00:00

Date Received: 08/07/24 15:11

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-46991-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/07/24 15:31	08/07/24 22:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/07/24 15:31	08/07/24 22:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/07/24 15:31	08/07/24 22:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/07/24 15:31	08/07/24 22:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/07/24 15:31	08/07/24 22:58	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/07/24 15:31	08/07/24 22:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
						<u>-</u>		-

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	70 - 130	08/07/24 15:31	08/07/24 22:58	1
1,4-Difluorobenzene (Surr)	99	70 - 130	08/07/24 15:31	08/07/24 22:58	1

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/07/24 22:58	1

Method: SW846 8015 NM - Diesel R	lange Organi	ics (DRO) (G	C)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/07/24 19:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 19:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 19:56	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/07/24 15:46	08/07/24 19:56	1
o-Terphenvl	96		70 - 130				08/07/24 15:46	08/07/24 19:56	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	113	5.03	mg/Kg			08/08/24 07:19	1	

Client Sample ID: CS-2 (2') Lab Sample ID: 880-46991-2

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/07/24 23:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/07/24 23:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/07/24 23:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/07/24 23:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/07/24 23:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/07/24 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/07/24 15:31	08/07/24 23:18	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/07/24 15:31	08/07/24 23:18	1

Eurofins Midland

Matrix: Solid

Date Received: 08/07/24 15:11

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (2') Lab Sample ID: 880-46991-2 Date Collected: 08/06/24 00:00

159 S1+

180 S1+

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/07/24 23:18	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte									
Total TPH Method: SW846 8015B NM - Dies	<49.7		49.7 (GC)		mg/Kg			08/07/24 20:12	1
Fotal TPH	el Range Orga			MDL			Prepared	08/07/24 20:12 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte	el Range Orga	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>	Prepared 08/07/24 15:46		Dil Fac
Total TPH Method: SW846 8015B NM - Dies	el Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	el Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>		Analyzed	1 Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics GRO)-C6-C10	el Range Orga Result <49.7	nics (DRO) Qualifier	(GC) RL 49.7	MDL	Unit mg/Kg	<u>D</u>	08/07/24 15:46	Analyzed 08/07/24 20:12	1 Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 115 5.03 mg/Kg 08/08/24 07:25

70 - 130

70 - 130

Client Sample ID: CS-3 (2') Date Collected: 08/06/24 00:00

Released to Imaging: 8/26/2024 8:15:01 AM

1-Chlorooctane

o-Terphenyl

Lab Sample ID: 880-46991-3

08/07/24 20:12

08/07/24 20:12

08/07/24 15:46

08/07/24 15:46

Matrix: Solid

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/07/24 15:31	08/07/24 23:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/07/24 15:31	08/07/24 23:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/07/24 15:31	08/07/24 23:39	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/07/24 15:31	08/07/24 23:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/07/24 15:31	08/07/24 23:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/07/24 15:31	08/07/24 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/07/24 15:31	08/07/24 23:39	1
	100		70 - 130				08/07/24 15:31	08/07/24 23:39	
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL	Unit	<u>D</u>	08/07/24 15:31 Prepared	Analyzed	·
Analyte	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00396	Qualifier U	RL 0.00396	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00396 esel Range Organ	Qualifier U	RL 0.00396			<u>D</u>		Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Cald Result <0.00396 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00396		mg/Kg		Prepared	Analyzed 08/07/24 23:39	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00396 esel Range Organ Result <49.7	Qualifier U ics (DRO) (Qualifier U	RL 0.00396 GC) RL 49.7		mg/Kg		Prepared	Analyzed 08/07/24 23:39 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00396 esel Range Organ Result <49.7	Qualifier U ics (DRO) (Qualifier U	RL 0.00396 GC) RL 49.7	MDL	mg/Kg		Prepared	Analyzed 08/07/24 23:39 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00396 esel Range Organ Result <49.7	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier	RL 0.00396 GC) RL 49.7	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 08/07/24 23:39 Analyzed 08/07/24 20:28	Dil Face Dil Face Dil Face 1 Dil Face

Job ID: 880-46991-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) SDG: Eddy County, New Mexico

Lab Sample ID: 880-46991-3 Client Sample ID: CS-3 (2')

Date Collected: 08/06/24 00:00 Matrix: Solid Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/07/24 15:46	08/07/24 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				08/07/24 15:46	08/07/24 20:28	1
o-Terphenyl	87		70 - 130				08/07/24 15:46	08/07/24 20:28	1

Method: EPA 300.0 - Anions, Ion Chi	romatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.5	4.98	mg/Kg			08/08/24 07:43	1

Client Sample ID: CS-4 (2') Lab Sample ID: 880-46991-4 Date Collected: 08/06/24 00:00 Matrix: Solid

Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/07/24 23:59	
Toluene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/07/24 23:59	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/07/24 23:59	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/07/24 23:59	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/07/24 23:59	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/07/24 23:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130				08/07/24 15:31	08/07/24 23:59	
1,4-Difluorobenzene (Surr)	97		70 - 130				08/07/24 15:31	08/07/24 23:59	
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/07/24 23:59	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			08/07/24 20:44	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/07/24 20:44	
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/07/24 20:44	
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/07/24 20:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	76		70 - 130				08/07/24 15:46	08/07/24 20:44	
o-Terphenyl	85		70 - 130				08/07/24 15:46	08/07/24 20:44	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte		Qualifier						<u>y</u>	

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-46991-5

Matrix: Solid

Client	Sample	ID:	CS-5	(2')
				٠,

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 00:20	
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 00:20	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 00:20	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/07/24 15:31	08/08/24 00:20	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 00:20	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/07/24 15:31	08/08/24 00:20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				08/07/24 15:31	08/08/24 00:20	-
1,4-Difluorobenzene (Surr)	98		70 - 130				08/07/24 15:31	08/08/24 00:20	
Method: TAL SOP Total BTEX -			D.	MDI	11-24	_	Dd	Austraad	D:: F-
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/24 00:20	•
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			08/07/24 21:00	
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 21:00	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 21:00	
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 21:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	45.4	4.97	mg/Kg			08/08/24 07:55	1

70 - 130

70 - 130

Client Sample ID: CS-6 (2')

76

85

Lab Sample ID: 880-46991-6

Matrix: Solid

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 00:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 00:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 00:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/08/24 00:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 00:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/08/24 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/07/24 15:31	08/08/24 00:40	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/07/24 15:31	08/08/24 00:40	1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

08/07/24 21:15

08/07/24 15:46

Client Sample ID: CS-6 (2')

Date Received: 08/07/24 15:11

Lab Sample ID: 880-46991-6 Date Collected: 08/06/24 00:00

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Total BTEX <0.00402 U 0.00402 mg/Kg

87

Dil Fac Analyzed 08/08/24 00:40

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) MDL Unit Result Qualifier RL D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 08/07/24 21:15 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit D Analyte Prepared Analyzed Dil Fac <49.9 U 49.9 08/07/24 15:46 08/07/24 21:15 Gasoline Range Organics mg/Kg (GRO)-C6-C10 49.9 Diesel Range Organics (Over <49.9 U mg/Kg 08/07/24 15:46 08/07/24 21:15 C10-C28) Oil Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 08/07/24 15:46 08/07/24 21:15 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 1-Chlorooctane 79 08/07/24 15:46 08/07/24 21:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 40.6 4.98 mg/Kg 08/08/24 08:01

70 - 130

Client Sample ID: CS-7 (2') Lab Sample ID: 880-46991-7 Date Collected: 08/06/24 00:00 **Matrix: Solid**

Date Received: 08/07/24 15:11

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		08/07/24 15:31	08/08/24 01:01	
Toluene	<0.00202	U	0.00202		mg/Kg		08/07/24 15:31	08/08/24 01:01	•
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/07/24 15:31	08/08/24 01:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/07/24 15:31	08/08/24 01:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/07/24 15:31	08/08/24 01:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/07/24 15:31	08/08/24 01:01	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/07/24 15:31	08/08/24 01:01	
			70 - 130				08/07/24 15:31	08/08/24 01:01	
Method: TAL SOP Total BTEX - Analyte	· Total BTEX Cald	Qualifier	70 - 130 RL 0.00404	MDL	Unit mg/Kg	<u>D</u>	08/07/24 15:31 Prepared	08/08/24 01:01 Analyzed 08/08/24 01:01	
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <0.00404	Qualifier U	RL 0.00404	MDL	Unit mg/Kg	<u>D</u>		Analyzed	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Total BTEX Calc Result <0.00404 sel Range Organ	Qualifier U	RL 0.00404			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies	Total BTEX Calc Result <0.00404 sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00404		mg/Kg	=	Prepared	Analyzed 08/08/24 01:01	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	rotal BTEX Calc Result <0.00404 sel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00404 GC) RL 49.8		mg/Kg	=	Prepared	Analyzed 08/08/24 01:01 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies	rotal BTEX Calc Result <0.00404 sel Range Organ Result <49.8 esel Range Organ	Qualifier U ics (DRO) (Qualifier U	RL 0.00404 GC) RL 49.8	MDL	mg/Kg	=	Prepared	Analyzed 08/08/24 01:01 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	rotal BTEX Calc Result <0.00404 sel Range Organ Result <49.8 esel Range Organ	Qualifier U ics (DRO) (Qualifier U inics (DRO) Qualifier	RL 0.00404 GC) RL 49.8	MDL	mg/Kg Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 08/08/24 01:01 Analyzed 08/07/24 21:31	Dil Fac

Date Received: 08/07/24 15:11

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (2') Lab Sample ID: 880-46991-7 Date Collected: 08/06/24 00:00

Matrix: Solid

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

Analyte Oil Range Organics (Over C28-C36)	<49.8	Qualifier U	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/07/24 15:46	Analyzed 08/07/24 21:31	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/07/24 15:46	08/07/24 21:31	1
o-Terphenyl	103		70 - 130				08/07/24 15:46	08/07/24 21:31	1

Method: EPA 300.0 - Anions, Ion C	Chromatography	y - Soluble						
Analyte	Result C	Qualifier R	L MDL	_ Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107	5.0	5	mg/Kg			08/08/24 08:07	1

Client Sample ID: CS-8 (2')

Date Collected: 08/06/24 00:00

Date Received: 08/07/24 15:11

Lab Sample ID: 880-46991-8

Matrix: Solid

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 01:21	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 01:21	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 01:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 01:21	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 01:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/07/24 15:31	08/08/24 01:21	1
1 4-Diffuorobenzene (Surr)	07		70 130				08/07/24 15:31	08/08/24 01:21	1

Juniogato	witecovery quanties			rrepared	rinaryzou	<i>Dir i</i> 40
4-Bromofluorobenzene (Surr)	109	70 - 130	•	08/07/24 15:31	08/08/24 01:21	1
1,4-Difluorobenzene (Surr)	97	70 - 130		08/07/24 15:31	08/08/24 01:21	1
Method: TAL SOP Total BTEX - Tot	al BTEX Calculation					

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 01:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0		mg/Kg			08/07/24 21:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 21:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 21:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/07/24 15:46	08/07/24 21:46	

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.01		mg/Kg			08/08/24 08:13	1

70 - 130

Eurofins Midland

o-Terphenyl

8/8/2024

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Lab Sample ID: 880-46991-9

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 01:42	
Toluene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 01:42	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 01:42	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 01:42	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 01:42	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 01:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130				08/07/24 15:31	08/08/24 01:42	
1,4-Difluorobenzene (Surr)	98		70 - 130				08/07/24 15:31	08/08/24 01:42	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 01:42	
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (G	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			49.7	WIDE	mg/Kg	=	Frepareu	08/07/24 22:02	Dii Fa
	\49. 1	U	49.7		IIIg/Kg			06/07/24 22.02	
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		08/07/24 15:46	08/07/24 22:02	
(GRO)_C6_C10									
` ,	<49.7	U	49.7		mg/Kg		08/07/24 15:46	08/07/24 22:02	
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		08/07/24 15:46	08/07/24 22:02	
Diesel Range Organics (Over C10-C28)	<49.7 <49.7		49.7 49.7		mg/Kg		08/07/24 15:46 08/07/24 15:46	08/07/24 22:02 08/07/24 22:02	
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)		U							
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<49.7	U	49.7				08/07/24 15:46	08/07/24 22:02	Dil Fa
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.7 %Recovery	U	49.7				08/07/24 15:46 Prepared	08/07/24 22:02 Analyzed	
	<49.7 — %Recovery 89 100	U Qualifier	49.7 Limits 70 - 130 70 - 130				08/07/24 15:46 Prepared 08/07/24 15:46	08/07/24 22:02 Analyzed 08/07/24 22:02	Dil Fa
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.7 **Recovery 89 100 Chromatograp	U Qualifier	49.7 Limits 70 - 130 70 - 130	MDL	mg/Kg	D	08/07/24 15:46 Prepared 08/07/24 15:46	08/07/24 22:02 Analyzed 08/07/24 22:02	Dil Fa

Client Sample ID: SW-2 (2') Lab Sample ID: 880-46991-10 Date Collected: 08/06/24 00:00 **Matrix: Solid**

Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 03:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 03:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 03:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/07/24 15:31	08/08/24 03:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 03:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/07/24 15:31	08/08/24 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/07/24 15:31	08/08/24 03:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/07/24 15:31	08/08/24 03:15	1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-46991-10

Matrix: Solid

Client Sample ID: SW-2 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Method: TAL SOP Total BTEX - Tot	al BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/24 03:15	1
_									

Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/07/24 22:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/07/24 22:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/07/24 22:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/07/24 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/07/24 15:46	08/07/24 22:33	1
o-Terphenyl	98		70 - 130				08/07/24 15:46	08/07/24 22:33	1

Method: EPA 300.0 - Anions, Ion CI	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111	5.02	mg/Kg			08/08/24 09:29	1

Client Sample ID: SW-3 (2') Lab Sample ID: 880-46991-11 Date Collected: 08/06/24 00:00 **Matrix: Solid**

Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 03:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 03:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 03:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/08/24 03:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 03:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/08/24 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/07/24 15:31	08/08/24 03:36	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	- Total BTEX Cald	culation	70 - 130				08/07/24 15:31	08/08/24 03:36	•
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	08/07/24 15:31 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald Result <0.00402	Qualifier U	RL 0.00402	MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00402 seel Range Organ	Qualifier U	RL 0.00402			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00402 seel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00402		mg/Kg		Prepared	Analyzed 08/08/24 03:36	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 seel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 ——————————————————————————————————		mg/Kg		Prepared	Analyzed 08/08/24 03:36 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 seel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 ——————————————————————————————————	MDL	mg/Kg		Prepared	Analyzed 08/08/24 03:36 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00402 seel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00402 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 08/08/24 03:36 Analyzed 08/07/24 22:48	Dil Fac

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Lab Sample ID: 880-46991-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/24 15:46	08/07/24 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/07/24 15:46	08/07/24 22:48	1
o-Terphenyl	105		70 - 130				08/07/24 15:46	08/07/24 22:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 5.02 08/08/24 09:47 Chloride 93.0 mg/Kg

Client Sample ID: SW-4 (2')

Date Collected: 08/06/24 00:00

Lab Sample ID: 880-46991-12

Matrix: Solid

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 03:56	
Toluene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 03:56	,
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 03:56	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 03:56	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 03:56	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 03:56	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/07/24 15:31	08/08/24 03:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/07/24 15:31	08/08/24 03:56	-
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Analyte Total BTEX	Result < 0.00398	Qualifier U	0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/24 03:56	
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398	Qualifier U	0.00398	MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398	Qualifier U ics (DRO) (Qualifier	0.00398 GC)		mg/Kg			08/08/24 03:56	
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 I Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 49.8		mg/Kg			08/08/24 03:56 Analyzed	
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Result <0.00398 Il Range Organ Result <49.8 seel Range Orga	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 49.8		mg/Kg Unit mg/Kg			08/08/24 03:56 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Result <0.00398 Il Range Organ Result <49.8 seel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 49.8 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	08/08/24 03:56 Analyzed 08/07/24 23:03	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <0.00398 Il Range Organ Result <49.8 sel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 49.8 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	08/08/24 03:56 Analyzed 08/07/24 23:03 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <0.00398 Il Range Organ Result <49.8 sel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 49.8 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	08/08/24 03:56 Analyzed 08/07/24 23:03 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <0.00398 I Range Organ Result <49.8 Seel Range Orga Result <49.8 <49.8	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 RL 49.8 (GC) RL 49.8 49.8	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 08/07/24 15:46 08/07/24 15:46	08/08/24 03:56 Analyzed 08/07/24 23:03 Analyzed 08/07/24 23:03 08/07/24 23:03	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00398 Il Range Organ Result <49.8 Sel Range Orga Result <49.8	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 RL 49.8 (GC) RL 49.8	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 08/07/24 15:46	08/08/24 03:56 Analyzed 08/07/24 23:03 Analyzed 08/07/24 23:03	1

o-Terphenyl	110		70 - 130				08/07/24 15:46	08/07/24 23:03	1
Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.98		mg/Kg			08/08/24 09:53	1

70 - 130

Eurofins Midland

08/07/24 23:03

08/07/24 15:46

1-Chlorooctane

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (2')

Lab Sample ID: 880-46991-13 Matrix: Solid

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 04:16	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 04:16	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 04:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 04:16	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 04:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/07/24 15:31	08/08/24 04:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/07/24 15:31	08/08/24 04:16	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 04:16	1
					9/.19			00/00/2101110	
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	GC)	MDL		<u>D</u>	Prepared		
Analyte		Qualifier U	GC) RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH : Method: SW846 8015B NM - Dies	Result <49.8	Qualifier U	GC) RL 49.8		Unit	D	Prepared Prepared	Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.8	Qualifier U nics (DRO) Qualifier	RL 49.8 (GC)		Unit mg/Kg		<u> </u>	Analyzed 08/07/24 23:19	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL		Unit mg/Kg		Prepared	Analyzed 08/07/24 23:19 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 49.8 Eel Range Orga Result 49.8 449.8 449.8	Qualifier U nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/07/24 15:46 08/07/24 15:46	Analyzed 08/07/24 23:19 Analyzed 08/07/24 23:19 08/07/24 23:19	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 49.8 Eel Range Orga Result 49.8 49.8	Qualifier U nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 08/07/24 15:46	Analyzed 08/07/24 23:19 Analyzed 08/07/24 23:19	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 49.8 Eel Range Orga Result 49.8 449.8 449.8	Qualifier U nics (DRO) Qualifier U U	GC) RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/07/24 15:46 08/07/24 15:46	Analyzed 08/07/24 23:19 Analyzed 08/07/24 23:19 08/07/24 23:19	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/07/24 15:46 08/07/24 15:46 08/07/24 15:46	Analyzed 08/07/24 23:19 Analyzed 08/07/24 23:19 08/07/24 23:19 08/07/24 23:19	1 Dil Fac 1 1

Client Sample ID: SW-6 (2') Lab Sample ID: 880-46991-14 Date Collected: 08/06/24 00:00 **Matrix: Solid**

RL

4.96

MDL Unit

mg/Kg

D

Prepared

Analyzed

08/08/24 09:59

Dil Fac

Result Qualifier

94.8

Date Received: 08/07/24 15:11

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 04:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 04:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 04:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/07/24 15:31	08/08/24 04:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 04:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/07/24 15:31	08/08/24 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/07/24 15:31	08/08/24 04:37	1
1.4-Difluorobenzene (Surr)	98		70 - 130				08/07/24 15:31	08/08/24 04:37	1

Client Sample Results

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 SDG: Eddy County, New Mexico

Client Sample ID: SW-6 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Lab Sample ID: 880-46991-14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/24 04:37	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.6	U	49.6		mg/Kg			08/07/24 23:34	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.6	U	49.6		mg/Kg		08/07/24 15:46	08/07/24 23:34	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.6	U	49.6		mg/Kg		08/07/24 15:46	08/07/24 23:34	
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/07/24 15:46	08/07/24 23:34	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	90		70 - 130				08/07/24 15:46	08/07/24 23:34	
o-Terphenyl	101		70 - 130				08/07/24 15:46	08/07/24 23:34	

5.04 Client Sample ID: SW-7 (2')

RL

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

110

Date Collected: 08/06/24 00:00

Analyte

Chloride

Date Received: 08/07/24 15:11

Lab Samp	ole ID:	880-4	699	11-15	
			_		

Analyzed

08/08/24 10:05

Matrix:	Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 04:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 04:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 04:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/08/24 04:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/08/24 04:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/08/24 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/07/24 15:31	08/08/24 04:57	1
	99		70 ₋ 130				08/07/24 15:31	08/08/24 04:57	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	culation Qualifier	70 - 130 RL	MDL	Unit	D	Prepared	Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDL	Unit	D			
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U	RL 0.00402		mg/Kg		Prepared	Analyzed 08/08/24 04:57	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL 0.00402	MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00402		mg/Kg		Prepared	Analyzed 08/08/24 04:57	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 ——————————————————————————————————		mg/Kg		Prepared	Analyzed 08/08/24 04:57	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.8 siesel Range Organ	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 ——————————————————————————————————	MDL	mg/Kg		Prepared	Analyzed 08/08/24 04:57	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.8 siesel Range Organ	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00402 GC) RL 49.8	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 08/08/24 04:57 Analyzed 08/07/24 23:49	Dil Fac

Client Sample ID: SW-7 (2')

Date Collected: 08/06/24 00:00

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 SDG: Eddy County, New Mexico

Lab Sample ID: 880-46991-15

Matrix: Solid

Date Received: 06/07/24 15:11	

Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(GC) (Continu	ıed)				
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/07/24 15:46	08/07/24 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			08/07/24 15:46	08/07/24 23:49	1
o-Terphenyl	98		70 - 130			08/07/24 15:46	08/07/24 23:49	1

Method: EPA 300.0 - Anions, Ion Ch	nromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.97	mg/Kg			08/08/24 10:23	1

Client Sample ID: SW-8 (2') Lab Sample ID: 880-46991-16

Date Collected: 08/06/24 00:00 **Matrix: Solid**

Date Received: 08/07/24 15:11									
– Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 05:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 05:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 05:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/07/24 15:31	08/08/24 05:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/08/24 05:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/07/24 15:31	08/08/24 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/07/24 15:31	08/08/24 05:18	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/07/24 15:31	08/08/24 05:18	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/08/24 05:18	1
– Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/08/24 00:04	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.7	U	49.7		mg/Kg			08/08/24 00:04	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/07/24 15:46	08/08/24 00:04	-
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/07/24 15:46	08/08/24 00:04	,
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/07/24 15:46	08/08/24 00:04	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	87		70 - 130				08/07/24 15:46	08/08/24 00:04	
o-Terphenyl	97		70 - 130				08/07/24 15:46	08/08/24 00:04	

Eurofins Midland

Analyzed

08/08/24 10:29

RL

4.98

MDL Unit

mg/Kg

Prepared

Result Qualifier

108

Dil Fac

Analyte

Chloride

Job ID: 880-46991-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) SDG: Eddy County, New Mexico

Lab Sample ID: 880-46991-17 Client Sample ID: SW-9 (2')

Date Collected: 08/06/24 00:00 Matrix: Solid Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 05:38	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 05:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 05:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 05:38	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/07/24 15:31	08/08/24 05:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/24 15:31	08/08/24 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/07/24 15:31	08/08/24 05:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/07/24 15:31	08/08/24 05:38	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 05:38	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/24 00:20	
Analyte Total TPH		Qualifier U	RL 49.8	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8	Qualifier U	RL 49.8			D	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.8	Qualifier U nics (DRO) Qualifier	RL 49.8		mg/Kg		<u> </u>	08/08/24 00:20	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)		mg/Kg		Prepared	08/08/24 00:20 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8		mg/Kg Unit mg/Kg		Prepared 08/07/24 15:46	08/08/24 00:20 Analyzed 08/08/24 00:20	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/07/24 15:46 08/07/24 15:46	08/08/24 00:20 Analyzed 08/08/24 00:20 08/08/24 00:20	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/07/24 15:46 08/07/24 15:46 08/07/24 15:46	08/08/24 00:20 Analyzed 08/08/24 00:20 08/08/24 00:20 08/08/24 00:20	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/07/24 15:46 08/07/24 15:46 08/07/24 15:46 Prepared	08/08/24 00:20 Analyzed 08/08/24 00:20 08/08/24 00:20 08/08/24 00:20 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/07/24 15:46 08/07/24 15:46 08/07/24 15:46 Prepared 08/07/24 15:46	08/08/24 00:20 Analyzed 08/08/24 00:20 08/08/24 00:20 08/08/24 00:20 Analyzed 08/08/24 00:20	1 Dil Fac
	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/07/24 15:46 08/07/24 15:46 08/07/24 15:46 Prepared 08/07/24 15:46	08/08/24 00:20 Analyzed 08/08/24 00:20 08/08/24 00:20 08/08/24 00:20 Analyzed 08/08/24 00:20	Dil Face 1 Dil Face 1 Dil Face 1 Dil Face 1 Dil Face

Client Sample ID: SW-10 (2') Lab Sample ID: 880-46991-18

Date Collected: 08/06/24 00:00 **Matrix: Solid** Date Received: 08/07/24 15:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/07/24 15:31	08/08/24 05:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/07/24 15:31	08/08/24 05:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/07/24 15:31	08/08/24 05:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/07/24 15:31	08/08/24 05:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/07/24 15:31	08/08/24 05:59	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/07/24 15:31	08/08/24 05:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/07/24 15:31	08/08/24 05:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/07/24 15:31	08/08/24 05:59	1

Client Sample Results

Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-46991-18 Client Sample ID: SW-10 (2') Date Collected: 08/06/24 00:00

Matrix: Solid

Method: TAL SOP Total BTEX - T			DI.	MDI	1114	_	Duranana	A II	D:: F-
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/08/24 05:59	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			08/08/24 00:35	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/08/24 00:35	-
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/08/24 00:35	
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 15:46	08/08/24 00:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	86		70 - 130				08/07/24 15:46	08/08/24 00:35	
o-Terphenyl	96		70 - 130				08/07/24 15:46	08/08/24 00:35	
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	6						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	122		4.98		mg/Kg			08/08/24 10:41	

Surrogate Summary

Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Rec	:0
ah Oamada ID	Olivet Overelle ID				
_ab Sample ID 880-46990-A-1-A MS	Client Sample ID Matrix Spike	<u>(70-130)</u>	(70-130) 99		_
880-46990-A-1-A MS 880-46990-A-1-B MSD	Matrix Spike Duplicate	103	99 98		
	·				
880-46991-1	CS-1 (2')	109	99		
880-46991-2	CS-2 (2')	109	98		
880-46991-3	CS-3 (2')	112	100		
880-46991-4	CS-4 (2')	110	97		
880-46991-5	CS-5 (2')	111	98		
880-46991-6	CS-6 (2')	108	98		
880-46991-7	CS-7 (2')	112	99		
880-46991-8	CS-8 (2')	109	97		
880-46991-9	SW-1 (2')	107	98		
880-46991-10	SW-2 (2')	111	99		
880-46991-11	SW-3 (2')	112	100		
880-46991-12	SW-4 (2')	110	99		
880-46991-13	SW-5 (2')	110	98		
880-46991-14	SW-6 (2')	111	98		
880-46991-15	SW-7 (2')	110	99		
880-46991-16	SW-8 (2')	113	99		
880-46991-17	SW-9 (2')	109	97		
880-46991-18	SW-10 (2')	111	98		
LCS 880-87776/1-A	Lab Control Sample	107	100		
LCSD 880-87776/2-A	Lab Control Sample Dup	104	99		
MB 880-87718/5-A	Method Blank	103	92		
MB 880-87776/5-A	Method Blank	107	92		
		-	-		

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46990-A-1-H MS	Matrix Spike	90	91	
880-46990-A-1-I MSD	Matrix Spike Duplicate	89	89	
880-46991-1	CS-1 (2')	85	96	
880-46991-2	CS-2 (2')	159 S1+	180 S1+	
80-46991-3	CS-3 (2')	77	87	
80-46991-4	CS-4 (2')	76	85	
80-46991-5	CS-5 (2')	76	85	
80-46991-6	CS-6 (2')	79	87	
80-46991-7	CS-7 (2')	91	103	
30-46991-8	CS-8 (2')	88	99	
80-46991-9	SW-1 (2')	89	100	
80-46991-10	SW-2 (2')	87	98	
80-46991-11	SW-3 (2')	94	105	
80-46991-12	SW-4 (2')	97	110	
880-46991-13	SW-5 (2')	97	108	

Surrogate Summary

Client: Carmona Resources

Job ID: 880-46991-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46991-14	SW-6 (2')	90	101	
880-46991-15	SW-7 (2')	86	98	
880-46991-16	SW-8 (2')	87	97	
880-46991-17	SW-9 (2')	81	93	
880-46991-18	SW-10 (2')	86	96	
LCS 880-87779/2-A	Lab Control Sample	96	97	
LCSD 880-87779/3-A	Lab Control Sample Dup	86	87	
MB 880-87779/1-A	Method Blank	81	93	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

10

11

13

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87718/5-A

Lab Sample ID: MB 880-87776/5-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87718

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/07/24 08:51	08/07/24 11:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1.4-Difluorobenzene (Surr)	92		70 - 130

08/07/24 08:51 08/07/24 11:11 08/07/24 08:51 08/07/24 11:11

Prepared

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Prep Batch: 87776

	III.D	III.D							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/07/24 15:31	08/07/24 22:16	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/07/24 15:3	08/07/24 22:16	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/07/24 15:3	08/07/24 22:16	1

Lab Sample ID: LCS 880-87776/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 87707

Analysis Batch: 87707

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

Prep Batch: 87776

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1114		mg/Kg		111	70 - 130	
Toluene	0.100	0.1002		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-87776/2-A

Matrix: Solid Analysis Batch: 87707 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87776

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1021		mg/Kg		102	70 - 130	9	35

Eurofins Midland

Dil Fac

Job ID: 880-46991-1 Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-87776/2-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87776

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09174 92 70 - 130 35 mg/Kg 9 Ethylbenzene 0.100 0.09457 mg/Kg 95 70 - 130 9 35 0.200 m-Xylene & p-Xylene 0.1981 mg/Kg 99 70 130 35 g o-Xylene 0.100 0.09990 mg/Kg 100 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-46990-A-1-A MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 87707 Prep Batch: 87776 MS MS %Rec Sample Sample Spike Result Qualifier Added Result Qualifier Unit %Rec Limits

Analyte Benzene U 0.0998 0.09960 <0.00201 mg/Kg 100 70 - 130 Toluene <0.00201 U 0.0998 0.08884 89 70 - 130 mg/Kg 0.0998 0.09078 70 - 130 Ethylbenzene < 0.00201 mg/Kg 91 m-Xylene & p-Xylene <0.00402 U 0.200 0.1879 94 70 - 130 mg/Kg o-Xylene <0.00201 U 0.0998 0.09434 mg/Kg 95 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 880-46990-A-1-B MSD

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 87776

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00201 U 0.100 0.1000 mg/Kg 100 70 - 130 0 35 Toluene <0.00201 U 0.100 0.08863 mg/Kg 88 70 - 130 0 35 Ethylbenzene < 0.00201 0.100 0.08983 mg/Kg 90 70 - 130 35 0.200 <0.00402 U 0.1858 93 70 - 130 35 m-Xylene & p-Xylene mg/Kg 0.100 o-Xylene <0.00201 U 0.09273 mg/Kg 93 70 - 130 35

MSD MSD

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

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

Lab Sample ID: MB 880-87779/1-A

Analysis Batch: 87806

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

Prep Batch: 87779

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 08/07/24 15:46 08/07/24 16:42 Gasoline Range Organics mg/Kg

Eurofins Midland

Matrix: Solid

(GRO)-C6-C10

Released to Imaging: 8/26/2024 8:15:01 AM

Client: Carmona Resources Job ID: 880-46991-1 Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-87779/1-A

Lab Sample ID: LCS 880-87779/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 87806

Analysis Batch: 87806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87779

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/07/24 15:46	08/07/24 16:42	1
C10-C28)	50.0		50.0			00/07/04 45 40	00/07/04 40 40	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/07/24 15:46	08/07/24 16:42	1

MB MB

MR MR

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	81		70 - 130	08/07/24 15:46	08/07/24 16:42	1
l	o-Terphenyl	93		70 - 130	08/07/24 15:46	08/07/24 16:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87779

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 840.0 84 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 906.4 mg/Kg 91 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	96	70 - 130
o-Terphenyl	97	70 - 130

Lab Sample ID: LCSD 880-87779/3-A

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Lab Control Sample Du

Prep Type: Total/NA Prep Batch: 87779

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	762.6		mg/Kg		76	70 - 130	10	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	789.8		mg/Kg		79	70 - 130	14	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 86 70 - 130 o-Terphenyl 87 70 - 130

Lab Sample ID: 880-46990-A-1-H MS

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 87779

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	767.6		mg/Kg		77	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	998	821.6		mg/Kg		82	70 - 130	
C10 C28)										

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	91		70 - 130

Job ID: 880-46991-1 Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46990-A-1-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 87806 Prep Batch: 87779 Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D

Gasoline Range Organics <49.9 U 998 760.8 mg/Kg 76 70 - 130 20 (GRO)-C6-C10 82 998 813.5 70 - 130Diesel Range Organics (Over <49.9 U mg/Kg 20 C10-C28)

MSD MSD

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87777/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 87788

MB MB

Result Qualifier MDL Analyte RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 08/08/24 05:18 U mg/Kg

Lab Sample ID: LCS 880-87777/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 87788

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 247 5 mg/Kg

Lab Sample ID: LCSD 880-87777/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 87788

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec RPD Limit Chloride 250 247.5 99 90 - 110 mg/Kg 0

Lab Sample ID: 880-46990-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 87788

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result %Rec Limits Unit Chloride 251 90 - 110 19.4 266.2 mg/Kg

Lab Sample ID: 880-46990-A-1-F MSD

Matrix: Solid

Analysis Batch: 87788

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D Chloride 251 98 19.4 266.5 90 - 110 20 mg/Kg 0

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Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: MB 880-87818/1-A

Lab Sample ID: LCS 880-87818/2-A

Lab Sample ID: LCSD 880-87818/3-A

Lab Sample ID: 880-46991-10 MS

Lab Sample ID: 880-46991-10 MSD

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analyte

Chloride

Analysis Batch: 87826

Analysis Batch: 87826

Analysis Batch: 87826

Analysis Batch: 87826

Analysis Batch: 87826

Method: 300.0 - Anions, Ion Chromatography (Continued)

MB MB

<5.00 U

Result Qualifier

Dil Fac

QC Sample Results

RL

5.00

MDL Unit

Qualifier

LCS LCS

LCSD LCSD

MS MS

MSD MSD

Qualifier

Result Qualifier

Result

251.1

251.1

Result

356.5

mg/Kg

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

%Rec

%Rec

100

100

Client: Carmona Resources Job ID: 880-46991-1 Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Spike

Added

250

Spike

Added

250

Spike

Added

251

SDG: Eddy County, New Mexico

Client Sample ID: Method Blank

Analyzed

08/08/24 09:11

Prep Type: Soluble

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

%Rec

Limits

90 - 110

90 - 110

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

> %Rec RPD Limits **RPD** Limit

Client Sample ID: SW-2 (2')

Prep Type: Soluble

%Rec %Rec Limits 90 - 110

Client Sample ID: SW-2 (2')

Prep Type: Soluble

%Rec RPD Limits RPD Limit

Sample Sample Spike Result Qualifier Added 251 111

Sample Sample

Qualifier

Result

111

Result Qualifier 356.3

Unit mg/Kg

%Rec

90 - 110

98

0

20

Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 87707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46991-1	CS-1 (2')	Total/NA	Solid	8021B	87776
880-46991-2	CS-2 (2')	Total/NA	Solid	8021B	87776
880-46991-3	CS-3 (2')	Total/NA	Solid	8021B	87776
880-46991-4	CS-4 (2')	Total/NA	Solid	8021B	87776
880-46991-5	CS-5 (2')	Total/NA	Solid	8021B	87776
880-46991-6	CS-6 (2')	Total/NA	Solid	8021B	87776
880-46991-7	CS-7 (2')	Total/NA	Solid	8021B	87776
880-46991-8	CS-8 (2')	Total/NA	Solid	8021B	87776
880-46991-9	SW-1 (2')	Total/NA	Solid	8021B	87776
880-46991-10	SW-2 (2')	Total/NA	Solid	8021B	87776
880-46991-11	SW-3 (2')	Total/NA	Solid	8021B	87776
880-46991-12	SW-4 (2')	Total/NA	Solid	8021B	87776
880-46991-13	SW-5 (2')	Total/NA	Solid	8021B	87776
880-46991-14	SW-6 (2')	Total/NA	Solid	8021B	87776
880-46991-15	SW-7 (2')	Total/NA	Solid	8021B	87776
880-46991-16	SW-8 (2')	Total/NA	Solid	8021B	87776
880-46991-17	SW-9 (2')	Total/NA	Solid	8021B	87776
880-46991-18	SW-10 (2')	Total/NA	Solid	8021B	87776
MB 880-87718/5-A	Method Blank	Total/NA	Solid	8021B	87718
MB 880-87776/5-A	Method Blank	Total/NA	Solid	8021B	87776
LCS 880-87776/1-A	Lab Control Sample	Total/NA	Solid	8021B	87776
LCSD 880-87776/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87776
880-46990-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	87776
880-46990-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87776

Prep Batch: 87718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87718/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 87776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-46991-1	CS-1 (2')	Total/NA	Solid	5035	
880-46991-2	CS-2 (2')	Total/NA	Solid	5035	
880-46991-3	CS-3 (2')	Total/NA	Solid	5035	
880-46991-4	CS-4 (2')	Total/NA	Solid	5035	
880-46991-5	CS-5 (2')	Total/NA	Solid	5035	
880-46991-6	CS-6 (2')	Total/NA	Solid	5035	
880-46991-7	CS-7 (2')	Total/NA	Solid	5035	
880-46991-8	CS-8 (2')	Total/NA	Solid	5035	
880-46991-9	SW-1 (2')	Total/NA	Solid	5035	
880-46991-10	SW-2 (2')	Total/NA	Solid	5035	
880-46991-11	SW-3 (2')	Total/NA	Solid	5035	
880-46991-12	SW-4 (2')	Total/NA	Solid	5035	
880-46991-13	SW-5 (2')	Total/NA	Solid	5035	
880-46991-14	SW-6 (2')	Total/NA	Solid	5035	
880-46991-15	SW-7 (2')	Total/NA	Solid	5035	
880-46991-16	SW-8 (2')	Total/NA	Solid	5035	
880-46991-17	SW-9 (2')	Total/NA	Solid	5035	
880-46991-18	SW-10 (2')	Total/NA	Solid	5035	
MB 880-87776/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87776/1-A	Lab Control Sample	Total/NA	Solid	5035	

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Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

GC VOA (Continued)

Prep Batch: 87776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87776/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46990-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-46990-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46991-1	CS-1 (2')	Total/NA	Solid	Total BTEX	
880-46991-2	CS-2 (2')	Total/NA	Solid	Total BTEX	
880-46991-3	CS-3 (2')	Total/NA	Solid	Total BTEX	
880-46991-4	CS-4 (2')	Total/NA	Solid	Total BTEX	
880-46991-5	CS-5 (2')	Total/NA	Solid	Total BTEX	
880-46991-6	CS-6 (2')	Total/NA	Solid	Total BTEX	
880-46991-7	CS-7 (2')	Total/NA	Solid	Total BTEX	
880-46991-8	CS-8 (2')	Total/NA	Solid	Total BTEX	
880-46991-9	SW-1 (2')	Total/NA	Solid	Total BTEX	
880-46991-10	SW-2 (2')	Total/NA	Solid	Total BTEX	
880-46991-11	SW-3 (2')	Total/NA	Solid	Total BTEX	
880-46991-12	SW-4 (2')	Total/NA	Solid	Total BTEX	
880-46991-13	SW-5 (2')	Total/NA	Solid	Total BTEX	
880-46991-14	SW-6 (2')	Total/NA	Solid	Total BTEX	
880-46991-15	SW-7 (2')	Total/NA	Solid	Total BTEX	
880-46991-16	SW-8 (2')	Total/NA	Solid	Total BTEX	
880-46991-17	SW-9 (2')	Total/NA	Solid	Total BTEX	
880-46991-18	SW-10 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Pren Batch: 87779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-46991-1	CS-1 (2')	Total/NA	Solid	8015NM Prep	
880-46991-2	CS-2 (2')	Total/NA	Solid	8015NM Prep	
880-46991-3	CS-3 (2')	Total/NA	Solid	8015NM Prep	
380-46991-4	CS-4 (2')	Total/NA	Solid	8015NM Prep	
380-46991-5	CS-5 (2')	Total/NA	Solid	8015NM Prep	
380-46991-6	CS-6 (2')	Total/NA	Solid	8015NM Prep	
80-46991-7	CS-7 (2')	Total/NA	Solid	8015NM Prep	
880-46991-8	CS-8 (2')	Total/NA	Solid	8015NM Prep	
380-46991-9	SW-1 (2')	Total/NA	Solid	8015NM Prep	
80-46991-10	SW-2 (2')	Total/NA	Solid	8015NM Prep	
880-46991-11	SW-3 (2')	Total/NA	Solid	8015NM Prep	
880-46991-12	SW-4 (2')	Total/NA	Solid	8015NM Prep	
880-46991-13	SW-5 (2')	Total/NA	Solid	8015NM Prep	
80-46991-14	SW-6 (2')	Total/NA	Solid	8015NM Prep	
880-46991-15	SW-7 (2')	Total/NA	Solid	8015NM Prep	
880-46991-16	SW-8 (2')	Total/NA	Solid	8015NM Prep	
880-46991-17	SW-9 (2')	Total/NA	Solid	8015NM Prep	
380-46991-18	SW-10 (2')	Total/NA	Solid	8015NM Prep	
/IB 880-87779/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
.CS 880-87779/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
.CSD 880-87779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
380-46990-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 87779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46991-1	CS-1 (2')	Total/NA	Solid	8015B NM	87779
880-46991-2	CS-2 (2')	Total/NA	Solid	8015B NM	87779
880-46991-3	CS-3 (2')	Total/NA	Solid	8015B NM	87779
880-46991-4	CS-4 (2')	Total/NA	Solid	8015B NM	87779
880-46991-5	CS-5 (2')	Total/NA	Solid	8015B NM	87779
880-46991-6	CS-6 (2')	Total/NA	Solid	8015B NM	87779
880-46991-7	CS-7 (2')	Total/NA	Solid	8015B NM	87779
880-46991-8	CS-8 (2')	Total/NA	Solid	8015B NM	87779
880-46991-9	SW-1 (2')	Total/NA	Solid	8015B NM	87779
880-46991-10	SW-2 (2')	Total/NA	Solid	8015B NM	87779
880-46991-11	SW-3 (2')	Total/NA	Solid	8015B NM	87779
880-46991-12	SW-4 (2')	Total/NA	Solid	8015B NM	87779
880-46991-13	SW-5 (2')	Total/NA	Solid	8015B NM	87779
880-46991-14	SW-6 (2')	Total/NA	Solid	8015B NM	87779
880-46991-15	SW-7 (2')	Total/NA	Solid	8015B NM	87779
880-46991-16	SW-8 (2')	Total/NA	Solid	8015B NM	87779
880-46991-17	SW-9 (2')	Total/NA	Solid	8015B NM	87779
880-46991-18	SW-10 (2')	Total/NA	Solid	8015B NM	87779
MB 880-87779/1-A	Method Blank	Total/NA	Solid	8015B NM	87779
LCS 880-87779/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87779
LCSD 880-87779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87779
880-46990-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	87779
880-46990-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87779

Analysis Batch: 87834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46991-1	CS-1 (2')	Total/NA	Solid	8015 NM	
880-46991-2	CS-2 (2')	Total/NA	Solid	8015 NM	
880-46991-3	CS-3 (2')	Total/NA	Solid	8015 NM	
380-46991-4	CS-4 (2')	Total/NA	Solid	8015 NM	
880-46991-5	CS-5 (2')	Total/NA	Solid	8015 NM	
880-46991-6	CS-6 (2')	Total/NA	Solid	8015 NM	
880-46991-7	CS-7 (2')	Total/NA	Solid	8015 NM	
880-46991-8	CS-8 (2')	Total/NA	Solid	8015 NM	
880-46991-9	SW-1 (2')	Total/NA	Solid	8015 NM	
880-46991-10	SW-2 (2')	Total/NA	Solid	8015 NM	
880-46991-11	SW-3 (2')	Total/NA	Solid	8015 NM	
880-46991-12	SW-4 (2')	Total/NA	Solid	8015 NM	
380-46991-13	SW-5 (2')	Total/NA	Solid	8015 NM	
880-46991-14	SW-6 (2')	Total/NA	Solid	8015 NM	
880-46991-15	SW-7 (2')	Total/NA	Solid	8015 NM	
880-46991-16	SW-8 (2')	Total/NA	Solid	8015 NM	
380-46991-17	SW-9 (2')	Total/NA	Solid	8015 NM	
380-46991-18	SW-10 (2')	Total/NA	Solid	8015 NM	

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 87777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46991-1	CS-1 (2')	Soluble	Solid	DI Leach	
880-46991-2	CS-2 (2')	Soluble	Solid	DI Leach	
880-46991-3	CS-3 (2')	Soluble	Solid	DI Leach	
880-46991-4	CS-4 (2')	Soluble	Solid	DI Leach	
880-46991-5	CS-5 (2')	Soluble	Solid	DI Leach	
880-46991-6	CS-6 (2')	Soluble	Solid	DI Leach	
880-46991-7	CS-7 (2')	Soluble	Solid	DI Leach	
880-46991-8	CS-8 (2')	Soluble	Solid	DI Leach	
880-46991-9	SW-1 (2')	Soluble	Solid	DI Leach	
MB 880-87777/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87777/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87777/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46990-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-46990-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 87788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46991-1	CS-1 (2')	Soluble	Solid	300.0	87777
880-46991-2	CS-2 (2')	Soluble	Solid	300.0	87777
880-46991-3	CS-3 (2')	Soluble	Solid	300.0	87777
880-46991-4	CS-4 (2')	Soluble	Solid	300.0	87777
880-46991-5	CS-5 (2')	Soluble	Solid	300.0	87777
880-46991-6	CS-6 (2')	Soluble	Solid	300.0	87777
880-46991-7	CS-7 (2')	Soluble	Solid	300.0	87777
880-46991-8	CS-8 (2')	Soluble	Solid	300.0	87777
880-46991-9	SW-1 (2')	Soluble	Solid	300.0	87777
MB 880-87777/1-A	Method Blank	Soluble	Solid	300.0	87777
LCS 880-87777/2-A	Lab Control Sample	Soluble	Solid	300.0	87777
LCSD 880-87777/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87777
880-46990-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	87777
880-46990-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87777

Leach Batch: 87818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-46991-10	SW-2 (2')	Soluble	Solid	DI Leach	_
880-46991-11	SW-3 (2')	Soluble	Solid	DI Leach	
880-46991-12	SW-4 (2')	Soluble	Solid	DI Leach	
880-46991-13	SW-5 (2')	Soluble	Solid	DI Leach	
880-46991-14	SW-6 (2')	Soluble	Solid	DI Leach	
880-46991-15	SW-7 (2')	Soluble	Solid	DI Leach	
880-46991-16	SW-8 (2')	Soluble	Solid	DI Leach	
880-46991-17	SW-9 (2')	Soluble	Solid	DI Leach	
880-46991-18	SW-10 (2')	Soluble	Solid	DI Leach	
MB 880-87818/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87818/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87818/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46991-10 MS	SW-2 (2')	Soluble	Solid	DI Leach	
880-46991-10 MSD	SW-2 (2')	Soluble	Solid	DI Leach	

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 SDG: Eddy County, New Mexico

HPLC/IC

Analysis Batch: 87826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46991-10	SW-2 (2')	Soluble	Solid	300.0	87818
880-46991-11	SW-3 (2')	Soluble	Solid	300.0	87818
880-46991-12	SW-4 (2')	Soluble	Solid	300.0	87818
880-46991-13	SW-5 (2')	Soluble	Solid	300.0	87818
880-46991-14	SW-6 (2')	Soluble	Solid	300.0	87818
880-46991-15	SW-7 (2')	Soluble	Solid	300.0	87818
880-46991-16	SW-8 (2')	Soluble	Solid	300.0	87818
880-46991-17	SW-9 (2')	Soluble	Solid	300.0	87818
880-46991-18	SW-10 (2')	Soluble	Solid	300.0	87818
MB 880-87818/1-A	Method Blank	Soluble	Solid	300.0	87818
LCS 880-87818/2-A	Lab Control Sample	Soluble	Solid	300.0	87818
LCSD 880-87818/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87818
880-46991-10 MS	SW-2 (2')	Soluble	Solid	300.0	87818
880-46991-10 MSD	SW-2 (2')	Soluble	Solid	300.0	87818

Eurofins Midland

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Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2')

Date Received: 08/07/24 15:11

Lab Sample ID: 880-46991-1 Date Collected: 08/06/24 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.99 g 5 mL 87776 08/07/24 15:31 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 87707 08/07/24 22:58 MNR **EET MID** Total/NA Analysis Total BTEX 87832 08/07/24 22:58 ΑJ **EET MID** Total/NA 8015 NM Analysis 1 87834 08/07/24 19:56 ΑJ **EET MID** Total/NA 8015NM Prep 87779 08/07/24 15:46 EET MID Prep 10.01 g 10 mL FΙ Total/NA Analysis 8015B NM 1 uL 1 uL 87806 08/07/24 19:56 TKC **EET MID** Soluble DI Leach 4.97 g 50 mL 87777 08/07/24 15:40 SA Leach FFT MID Soluble Analysis 300.0 50 mL 50 mL 87788 08/08/24 07:19 СН **EET MID**

Client Sample ID: CS-2 (2') Lab Sample ID: 880-46991-2

Date Collected: 08/06/24 00:00 **Matrix: Solid**

Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/07/24 23:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/07/24 23:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 20:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 20:12	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 07:25	CH	EET MID

Client Sample ID: CS-3 (2') Lab Sample ID: 880-46991-3

Date Collected: 08/06/24 00:00

Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/07/24 23:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/07/24 23:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 20:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 20:28	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 07:43	CH	EET MID

Client Sample ID: CS-4 (2') Lab Sample ID: 880-46991-4

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/07/24 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/07/24 23:59	AJ	EET MID

Eurofins Midland

Matrix: Solid

Matrix: Solid

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Lab Sample ID: 880-46991-4

Matrix: Solid

Matrix: Solid

Client Sample ID: CS-4 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87834	08/07/24 20:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 20:44	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 07:49	CH	EET MID

Client Sample ID: CS-5 (2') Lab Sample ID: 880-46991-5 Date Collected: 08/06/24 00:00

Date Received: 08/07/24 15:11

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 87776 08/07/24 15:31 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 87707 08/08/24 00:20 MNR EET MID 1 Total/NA Total BTEX Analysis 1 87832 08/08/24 00:20 AJ **EET MID** Total/NA Analysis 8015 NM 87834 08/07/24 21:00 EET MID AJ Total/NA Prep 8015NM Prep 10.00 g 10 mL 87779 08/07/24 15:46 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 87806 08/07/24 21:00 TKC **EET MID** 1 uL Soluble Leach DI Leach 5.03 g 50 mL 87777 08/07/24 15:40 SA **EET MID** Soluble Analysis 300.0 1 50 mL 50 mL 87788 08/08/24 07:55 СН **EET MID**

Client Sample ID: CS-6 (2') Lab Sample ID: 880-46991-6 Date Collected: 08/06/24 00:00 **Matrix: Solid**

Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 00:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 00:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 21:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 21:15	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 08:01	CH	EET MID

Client Sample ID: CS-7 (2') Lab Sample ID: 880-46991-7

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 01:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 01:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 21:31	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g 1 uL	10 mL 1 uL	87779 87806	08/07/24 15:46 08/07/24 21:31	EL TKC	EET MID EET MID

Eurofins Midland

Matrix: Solid

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Lab Chronicle

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1 SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Lab Sample ID: 880-46991-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 08:07	CH	EET MID

Client Sample ID: CS-8 (2') Lab Sample ID: 880-46991-8

Date Collected: 08/06/24 00:00 **Matrix: Solid**

Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 01:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 01:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 21:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 21:46	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 08:13	CH	EET MID

Client Sample ID: SW-1 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

_ab	Sample	ID:	880-46991-9	
			Matrix: Solid	

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 01:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 01:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 22:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 22:02	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 08:19	CH	EET MID

Client Sample ID: SW-2 (2') Lab Sample ID: 880-46991-10

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 03:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 03:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 22:33	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 22:33	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87818	08/08/24 07:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87826	08/08/24 09:29	CH	EET MID

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Client Sample ID: SW-3 (2')

Lab Sample ID: 880-46991-11

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 03:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 03:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 22:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 22:48	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87818	08/08/24 07:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87826	08/08/24 09:47	CH	EET MID

Lab Sample ID: 880-46991-12

Client Sample ID: SW-4 (2') Date Collected: 08/06/24 00:00

Matrix: Solid

Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 03:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 03:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 23:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 23:03	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87818	08/08/24 07:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87826	08/08/24 09:53	CH	EET MID

Client Sample ID: SW-5 (2') Lab Sample ID: 880-46991-13

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 04:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 04:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/07/24 23:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 23:19	TKC	EET MID

Client Sample ID: SW-6 (2') Lab Sample ID: 880-46991-14

5.04 g

50 mL

50 mL

50 mL

87818

87826

08/08/24 07:52

08/08/24 09:59

SA

CH

Date Collected: 08/06/24 00:00

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

Matrix: Solid

EET MID

EET MID

Date Received: 08/07/24 15:11

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 04:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 04:37	AJ	EET MID

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Client Sample ID: SW-6 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11 Lab Sample ID: 880-46991-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87834	08/07/24 23:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 23:34	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87818	08/08/24 07:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87826	08/08/24 10:05	CH	EET MID

Lab Sample ID: 880-46991-15

Date Collected: 08/06/24 00:00 Matrix: Solid

Date Received: 08/07/24 15:11

Client Sample ID: SW-7 (2')

Batch Batch Dil Initial Final Batch Prepared Method Amount Amount Number **Prep Type** Type Run Factor or Analyzed Analyst Lab Prep Total/NA 5035 4.97 g 5 mL 87776 08/07/24 15:31 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 87707 08/08/24 04:57 MNR **EET MID** 1 Total/NA Analysis Total BTEX 1 87832 08/08/24 04:57 AJ **EET MID** Total/NA 8015 NM 87834 08/07/24 23:49 EET MID Analysis AJ Total/NA Prep 8015NM Prep 10.04 g 10 mL 87779 08/07/24 15:46 EL **EET MID** Total/NA 8015B NM 1 uL 87806 08/07/24 23:49 TKC **EET MID** Analysis 1 uL Soluble Leach DI Leach 5.03 g 50 mL 87818 08/08/24 07:52 SA **EET MID** Soluble Analysis 300.0 50 mL 50 mL 87826 08/08/24 10:23 СН **EET MID** 1

Client Sample ID: SW-8 (2')

Date Collected: 08/06/24 00:00

Lab Sample ID: 880-46991-16

Matrix: Solid

Date Received: 08/07/24 15:11

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.99 g 5 mL 87776 08/07/24 15:31 MNR **EET MID** Total/NA 8021B 5 mL 5 mL 87707 08/08/24 05:18 MNR Analysis **EET MID** 1 Total/NA Analysis Total BTEX 1 87832 08/08/24 05:18 AJ **EET MID** Total/NA Analysis 8015 NM 87834 08/08/24 00:04 AJ EET MID 1 Total/NA Prep 8015NM Prep 10.06 g 10 mL 87779 08/07/24 15:46 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 87806 08/08/24 00:04 TKC **EET MID** Soluble Leach DI Leach 5.02 g 50 mL 87818 08/08/24 07:52 SA **EET MID** Soluble Analysis 300.0 50 mL 50 mL 87826 08/08/24 10:29 СН EET MID 1

Client Sample ID: SW-9 (2')

Lab Sample ID: 880-46991-17

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 05:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 05:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/08/24 00:20	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	87779 87806	08/07/24 15:46 08/08/24 00:20	EL TKC	EET MID EET MID

Eurofins Midland

Matrix: Solid

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Lab Chronicle

Client: Carmona Resources Job ID: 880-46991-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) SDG: Eddy County, New Mexico

Client Sample ID: SW-9 (2')

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Lab Sample ID: 880-46991-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	87818	08/08/24 07:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87826	08/08/24 10:35	CH	EET MID

Client Sample ID: SW-10 (2') Lab Sample ID: 880-46991-18

Date Collected: 08/06/24 00:00 **Matrix: Solid**

Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/08/24 05:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87832	08/08/24 05:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87834	08/08/24 00:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/08/24 00:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87818	08/08/24 07:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87826	08/08/24 10:41	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
,	are included in this report, but bes not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

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

Eurofins Midland

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12

Sample Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46991-1

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46991-1	CS-1 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-2	CS-2 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-3	CS-3 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-4	CS-4 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-5	CS-5 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-6	CS-6 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-7	CS-7 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-8	CS-8 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-9	SW-1 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-10	SW-2 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-11	SW-3 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-12	SW-4 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-13	SW-5 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-14	SW-6 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-15	SW-7 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-16	SW-8 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-17	SW-9 (2')	Solid	08/06/24 00:00	08/07/24 15:11
880-46991-18	SW-10 (2')	Solid	08/06/24 00:00	08/07/24 15:11

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Project Manager:	Conner Moehring	ring			Bill to: (if different)	ferent)		Carmo	Carmona Resources	ources				Work	Work Order Comments	ents	1
Company Name:	Carmona Resources	ources			Company Name:	Name:								Program: UST/PST PRP Brownfields RRC	□Brownfields	☐RRC ☐uperfund [Ξ,
	310 W Wall St Ste 500	t Ste 500			Address:									State of Project:			
e ZIP:	Midland, TX 79701	9701			City, State ZIP:	ZIP:								Reporting:Level III Level III PST/UST		□RRP □ Level IV □	_
	432-813-6823			Email:		a@carm	onares	ources	.com					Deliverables: EDD	ADaPT	Other:	1
Project Name:	Cottonm	Cottonmouth 23 Federal Com 001H	al Com 001H	Tim	Turn Around							NAL	ANALYSIS REQUEST	DUEST	P	Preservative Codes	_
Project Number:		2417		Routine	 Rush		Code .	Ц	_	-					None: NO	NO DI Water: H ₂ O	
Project Location	Edd	Eddy County, New Mexico	v Mexico	Due Date:	24 HR	⊼									Cool: Cool	Sool MeOH: Me	œ
Sampler's Name:		F							RO)						HCL: HC	C HNO3: HN	Ž
PO#:							s		+ M						H ₂ S0 ₄ : H ₂		NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes	8	neter	В	DRO	0.0					H ₃ PO ₄ : HP	H	
Received Intact:		Yes No					ran	802	0+	le 30					NaHSC	NaHSO ₄ : NABIS	
Cooler Custody Seals:	Ye	No N/A	Correction Factor:				Pa	TEX	GR	lorio					Na ₂ S ₂ C	Na2S2O3: NaSO3	
Sample Custody Seals:			Temperature Reading:	iding:				В	5M (Ch					Zn Ace	Zn Acetate+NaOH: Zn	2
Total Containers:	H		Corrected Temperature:	rature:					801						NaOH	NaOH+Ascorbic Acid: SAPC	0
Sample Identification	tification	Date	Time	Soil	Water	Grab/ Comp	# of Cont		TPH						Ø	Sample Comments	=======================================
SW-3 (2')	(2')	8/6/2024		×		ဂ	_	×	×	×							1
·SW-4 (2")	(2')	8/6/2024		×		င	1	×	×	×							
· SW-5 (2")	(2')	8/6/2024		×		С	1	×	×	×							
SW-6 (2")	(2")	8/6/2024		×		C		×	×	×							
· SW-7 (2")	(2")	8/6/2024		×		C		×	×	×							
· SW-8 (2")	(2')	8/6/2024		×		င	_	×	×	×							
SW-9 (2")	(2')	8/6/2024		×		С	1	×	×	×							ı
· SW-10 (2)	(2')	8/6/2024		×		C	_	×	×	×							1
						:			_				-				
Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com	to Mike Carr	iona / Mcarmi	ona@carmonare	sources.com a	nd Connei	r Moehri	ng / Cm	noehri	ing@c	armona	resourc	es.cor	3				
5		Relinquished	Relinquished by: (Signature)					Date/Time	me				Re	Received by: (Signature)		₁ Date/Time	ା ହା 🛮
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Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-46991-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

Login Number: 46991 List Number: 1

Creator: Vasquez, Julisa

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500

Midland, Texas 79701

Generated 8/8/2024 11:08:16 AM

JOB DESCRIPTION

Cottonmouth 23 Federal Com 001H (06.06.24) Eddy County, New Mexico

JOB NUMBER

880-46990-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 8/8/2024 11:08:16 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 3

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Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) Laboratory Job ID: 880-46990-1 SDG: Eddy County, New Mexico

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Definitions/Glossary

Job ID: 880-46990-1 Client: Carmona Resources Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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 Colony Forming Unit CFU **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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Carmona Resources Job ID: 880-46990-1

Project: Cottonmouth 23 Federal Com 001H (06.06.24)

Eurofins Midland Job ID: 880-46990-1

Job Narrative 880-46990-1

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

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

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

Receipt

The sample was received on 8/7/2024 3:11 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.5°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: Onsurez Pit (880-46990-1).

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

Diesel Range Organics

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-87806 exhibited % difference of > 20% for the following analyte(s)Diesel Range Organics (Over C10-C28). These results are within the labs acceptance limits but exceed the performance criteria.

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: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Job ID: 880-46990-1

Client Sample ID: Onsurez Pit

Date Collected: 08/06/24 00:00 Date Received: 08/07/24 15:11

Lab Sample ID: 880-46990-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/07/24 22:37	
Toluene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/07/24 22:37	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/07/24 22:37	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/07/24 22:37	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/07/24 15:31	08/07/24 22:37	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/07/24 15:31	08/07/24 22:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130				08/07/24 15:31	08/07/24 22:37	
1,4-Difluorobenzene (Surr)	100		70 - 130				08/07/24 15:31	08/07/24 22:37	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/07/24 22:37	,
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/07/24 19:07	•
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/07/24 15:46	08/07/24 19:07	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/07/24 15:46	08/07/24 19:07	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/24 15:46	08/07/24 19:07	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	73		70 - 130				08/07/24 15:46	08/07/24 19:07	
o-Terphenyl	82		70 - 130				08/07/24 15:46	08/07/24 19:07	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Carmona Resources

Job ID: 880-46990-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46990-1	Onsurez Pit	109	100	
880-46990-1 MS	Onsurez Pit	103	99	
880-46990-1 MSD	Onsurez Pit	102	98	
LCS 880-87776/1-A	Lab Control Sample	107	100	
LCSD 880-87776/2-A	Lab Control Sample Dup	104	99	
MB 880-87718/5-A	Method Blank	103	92	
MB 880-87776/5-A	Method Blank	107	92	

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 Rec
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46990-1	Onsurez Pit	73	82	
880-46990-1 MS	Onsurez Pit	90	91	
880-46990-1 MSD	Onsurez Pit	89	89	
LCS 880-87779/2-A	Lab Control Sample	96	97	
LCSD 880-87779/3-A	Lab Control Sample Dup	86	87	
MB 880-87779/1-A	Method Blank	81	93	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

Eurofins Midland

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Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1

SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87718/5-A

Lab Sample ID: MB 880-87776/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87718

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 08:51	08/07/24 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/07/24 08:51	08/07/24 11:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

08/07/24 08:51 08/07/24 11:11 08/07/24 08:51 08/07/24 11:11

Prepared

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA Prep Batch: 87776

Analysis Batch: 87707 мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/24 15:31	08/07/24 22:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/07/24 15:31	08/07/24 22:16	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/07/24 15:31	08/07/24 22:16	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/07/24 15:31	08/07/24 22:16	1

Lab Sample ID: LCS 880-87776/1-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 87776

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1114		mg/Kg		111	70 - 130	
Toluene	0.100	0.1002		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-87776/2-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Lab	Control Sample Dup
	Dron Type, Total/NA

Prep Type: Total/NA

Prep Batch: 87776

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1021	mg/Kg		102	70 - 130	9	35	

Eurofins Midland

Dil Fac

Client: Carmona Resources

Job ID: 880-46990-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-87776/2-A

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 87776

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09174		mg/Kg		92	70 - 130	9	35
Ethylbenzene	0.100	0.09457		mg/Kg		95	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130	9	35
o-Xylene	0.100	0.09990		mg/Kg		100	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-46990-1 MS

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Onsurez Pit

Prep Type: Total/NA

Prep Batch: 87776

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.09960		mg/Kg	_	100	70 - 130	
Toluene	<0.00201	U	0.0998	0.08884		mg/Kg		89	70 - 130	
Ethylbenzene	<0.00201	U	0.0998	0.09078		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1879		mg/Kg		94	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.09434		mg/Kg		95	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 880-46990-1 MSD

Matrix: Solid

Analysis Batch: 87707

Client Sample ID: Onsurez Pit

Prep Type: Total/NA Prep Batch: 87776

rep Batch: 87770

7 manyolo Batom of 1 of											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.1000		mg/Kg		100	70 - 130	0	35
Toluene	<0.00201	U	0.100	0.08863		mg/Kg		88	70 - 130	0	35
Ethylbenzene	<0.00201	U	0.100	0.08983		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1858		mg/Kg		93	70 - 130	1	35
o-Xylene	<0.00201	U	0.100	0.09273		mg/Kg		93	70 - 130	2	35

MSD MSD

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

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

Lab Sample ID: MB 880-87779/1-A

Matrix: Solid

Analysis Batch: 87806

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

Prep Batch: 87779

 MB
 MB

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
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 Dil Farence

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 08/07/24 15:46
 08/07/24 16:42

(GRO)-C6-C10

Eurofins Midland

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Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-87779/1-A

Lab Sample ID: LCS 880-87779/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87779

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 16:42	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 15:46	08/07/24 16:42	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/07/24 15:46	08/07/24 16:42	1
o-Terphenyl	93		70 - 130	08/07/24 15:46	08/07/24 16:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87779

Analysis Batch: 87806 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 840.0 mg/Kg 84 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 906.4 70 - 130 mg/Kg 91 C10-C28)

LCS LCS

Surrogate	%Recovery C	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-87779/3-A

Matrix: Solid

Analysis Batch: 87806

Prep Type: Total/NA

Prep Batch: 87779

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	762.6		mg/Kg		76	70 - 130	10	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	789.8		mg/Kg		79	70 - 130	14	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 880-46990-1 MS

Matrix: Solid

Analysis Batch: 87806

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Client	Sample	ID:	Onsurez	Pit

Prep Type: Total/NA

Prep Batch: 87779

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	767.6		mg/Kg		77	70 - 130	
Diesel Range Organics (Over	<49.9	U	998	821.6		mg/Kg		82	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	91		70 - 130

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1

SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46990-1 MSD

Matrix: Solid

Analysis Batch: 87806

Client Sample ID: Onsurez Pit

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Onsurez Pit

Client Sample ID: Onsurez Pit

Prep Type: Total/NA

Prep Batch: 87779

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	998	760.8		mg/Kg		76	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	998	813.5		mg/Kg		82	70 - 130	1	20
C10-C28)											

MSD MSD

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87777/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 87788

мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			08/08/24 05:18	1

Lab Sample ID: LCS 880-87777/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 87788

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

Lab Sample ID: LCSD 880-87777/3-A

Matrix: Solid

Analysis Batch: 87788

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	247.5		ma/Ka		99	90 - 110		20	

Lab Sample ID: 880-46990-1 MS

Matrix: Solid

Analysis Batch: 87788

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	19 4		251	266.2		ma/Ka		98	90 110	

Lab Sample ID: 880-46990-1 MSD

Matrix: Solid

Analysis Batch: 87788											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	19.4		251	266.5		ma/Ka		08	90 110		20

QC Association Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1 SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 87707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	8021B	87776
MB 880-87718/5-A	Method Blank	Total/NA	Solid	8021B	87718
MB 880-87776/5-A	Method Blank	Total/NA	Solid	8021B	87776
LCS 880-87776/1-A	Lab Control Sample	Total/NA	Solid	8021B	87776
LCSD 880-87776/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87776
880-46990-1 MS	Onsurez Pit	Total/NA	Solid	8021B	87776
880-46990-1 MSD	Onsurez Pit	Total/NA	Solid	8021B	87776

Prep Batch: 87718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87718/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 87776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	5035	
MB 880-87776/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87776/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87776/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46990-1 MS	Onsurez Pit	Total/NA	Solid	5035	
880-46990-1 MSD	Onsurez Pit	Total/NA	Solid	5035	

Analysis Batch: 87831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	8015NM Prep	
MB 880-87779/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87779/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46990-1 MS	Onsurez Pit	Total/NA	Solid	8015NM Prep	
880-46990-1 MSD	Onsurez Pit	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	8015B NM	87779
MB 880-87779/1-A	Method Blank	Total/NA	Solid	8015B NM	87779
LCS 880-87779/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87779
LCSD 880-87779/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87779
880-46990-1 MS	Onsurez Pit	Total/NA	Solid	8015B NM	87779
880-46990-1 MSD	Onsurez Pit	Total/NA	Solid	8015B NM	87779

Analysis Batch: 87833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1 SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 87777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Soluble	Solid	DI Leach	
MB 880-87777/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87777/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87777/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46990-1 MS	Onsurez Pit	Soluble	Solid	DI Leach	
880-46990-1 MSD	Onsurez Pit	Soluble	Solid	DI Leach	

Analysis Batch: 87788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46990-1	Onsurez Pit	Soluble	Solid	300.0	87777
MB 880-87777/1-A	Method Blank	Soluble	Solid	300.0	87777
LCS 880-87777/2-A	Lab Control Sample	Soluble	Solid	300.0	87777
LCSD 880-87777/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87777
880-46990-1 MS	Onsurez Pit	Soluble	Solid	300.0	87777
880-46990-1 MSD	Onsurez Pit	Soluble	Solid	300.0	87777

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Lab Chronicle

Client: Carmona Resources

Job ID: 880-46990-1

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

SDG: Eddy County, New Mexico

Client Sample ID: Onsurez Pit

Lab Sample ID: 880-46990-1

Date Collected: 08/06/24 00:00 Matrix: Solid
Date Received: 08/07/24 15:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87776	08/07/24 15:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87707	08/07/24 22:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87831	08/07/24 22:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			87833	08/07/24 19:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87779	08/07/24 15:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87806	08/07/24 19:07	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87777	08/07/24 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87788	08/08/24 07:01	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Carmona Resources

Job ID: 880-46990-1 Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24) SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1

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

Eurofins Midland

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Sample Summary

Client: Carmona Resources

Project/Site: Cottonmouth 23 Federal Com 001H (06.06.24)

Job ID: 880-46990-1

SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46990-1	Onsurez Pit	Solid	08/06/24 00:00	08/07/24 15:11

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880-46990 Chain of Custody

Chain of Custody

☐ Level IV ☐ DI Water: H₂O _uperfund MeOH: Me HNO₃: HN NaOH: Na Preservative Codes NaOH+Ascorbic Acid: SAPC Sample Comments Date/Time 5 Zn Acetate+NaOH: Zn Na₂S₂O₃: NaSO₃ NaHSO4: NABIS Reporting: Level III DST/UST TRRP Program: UST/PST PRP Brownfields RRC Other: Cool: Cool HCL: HC H₃PO₄: HP H₂S0₄: H₂ Page None: NO ADaPT Deliverables: EDD Received by: (Signature) State of Project: **ANALYSIS REQUEST** Carmona Resources Chloride 300.0 × Email: mcarmona@carmonaresources.com Date/Time × TPH 8015M (GRO + DRO + MRO) × 81508 X3T8 # of Cont Pres. Code Parameters X Comp Grab/ Company Name: Bill to: (if different) ပ City, State ZIP: 24 HR - Rush Address: Yes Water Turn Around Routine Wet Ice: Due Date: Soil Corrected Temperature: Temperature Reading: Correction Factor: Thermometer Relinquished by: (Signature) Yes/No Cottonmouth 23 Federal Com 001H (06.06.24) Time Eddy County, New Mexico 8/6/2024 2 Date Yes No N/A Yes No NIA 310 W Wall St Ste 500 Temp Blank: Yes No Carmona Resources Midland, TX 79701 Conner Moehring 432-813-6823 Sample Identification Onsurez Pit SAMPLE RECEIPT Sample Custody Seals: Cooler Custody Seals: Fotal Containers: Sampler's Name: Project Manager: Company Name: Project Location Project Number Received Intact: City, State ZIP: Project Name: Address: # Od

Released to Imaging: 8/26/2024 8:15:01 AM

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8/8/2024

Login Sample Receipt Checklist

Client: Carmona Resources Job Number: 880-46990-1

SDG Number: Eddy County, New Mexico

List Source: Eurofins Midland

Login Number: 46990 List Number: 1

Creator: Vasquez, Julisa

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

APPENDIX F

CARMONA RESOURCES



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow Marsh or swamp





Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot

Spoil Area



Stony Spot



Very Stony Spot Wet Spot



Other



Special Line Features

Water Features

Streams and Canals

Transportation



Rails

Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Nov 12. 2022—Dec 2. 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	0.2	100.0%
Totals for Area of Interest		0.2	100.0%

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 14 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent *Minor components*: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

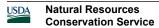
Available water supply, 0 to 60 inches: Moderate (about 8.2

inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B



Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent

Ecological site: R070BC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 19, Sep 7, 2023

(26)

BLM SERIAL #:

COMPANY REFERENCE:

3.1 Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	lb/acre
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

<u>District I</u> 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

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

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

QUESTIONS

Action 376622

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	376622
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415854482
Incident Name	NAPP2415854482 COTTON MOUTH 23 FEDERAL COM 1H @ 30-015-39784
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-39784] COTTONMOUTH 23 FEDERAL COM #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTON MOUTH 23 FEDERAL COM 1H
Date Release Discovered	06/06/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Other Pipeline (Any) Produced Water Released: 25 BBL Recovered: 0 BBL Lost: 25 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

District I
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Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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

1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 376622

Phone:(505) 476-3470 Fax:(505) 476-3462		
QUESTI	ONS (continued)	
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137 Action Number: 376622 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	on for a notification of a major From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why Not answered.		
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for release	cnowledge and understand that pursuant to OCD rules and regulations all operators are required ises which may endanger public health or the environment. The acceptance of a C-141 report by idequately 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

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

QUESTIONS, Page 3

Action 376622

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	376622
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 100 and 200 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 500 and 1000 (ft.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between ½ and 1 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	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 ind	licated. This information must be provided to ti	he 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 NM		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	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)	18200
TPH (GRO+DRO+MRO) (EPA SW-8	346 Method 8015M)	49
GRO+DRO (EPA SW	/-846 Method 8015M)	49
BTEX (EPA SW	/-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW	V-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the si which includes the anticipated timelines for beginnin		efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediatio	n commence	08/05/2024
On what date will (or did) the final sampling	g or liner inspection occur	08/05/2024
On what date will (or was) the remediation	complete(d)	08/08/2024
What is the estimated surface area (in square feet) that will be reclaimed		1950
What is the estimated volume (in cubic yards) that will be reclaimed		200
What is the estimated surface area (in square feet) that will be remediated		1950
What is the estimated volume (in cubic yards) that will be remediated 200		200
These estimated dates and measurements are recogn	nized 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 mea	sures may have to be minimally adjusted in ac	cordance 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	376622
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	COTTONMOUTH 23 BATTERY [fAPP2203845988]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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: 08/22/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 8/26/2024 8:15:01 AM

Action 376622

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QUESTIONS, Page 5

Action 376622

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	376622
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. Requesting a deferral of the remediation closure due date with the approval of this No submission

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

QUESTIONS, Page 6

Action 376622

QUESTIONS ((continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	376622
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	370342
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/05/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	1950

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	1950	
What was the total volume (cubic yards) remediated	200	
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	1950	
What was the total volume (in cubic yards) reclaimed	200	
Summarize any additional remediation activities not included by answers (above)	na	

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

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

I hereby agree and sign off to the above statement

Name: Brittany Esparza Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 08/22/2024

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QUESTIONS, Page 7

Action 376622

QUESTI	IONS (continued)	
Operator:	OGRID:	
COG OPERATING LLC	229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	376622	
	Action Type:	
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	1950	
What was the total volume of replacement material (in cubic yards) for this site	200	
	of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 60 over must include a top layer, which is either the background thickness of topsoil or one foot of suitable mater	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	08/08/2024	
Summarize any additional reclamation activities not included by answers (above)	BLM Seed mix #1	
	reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the foi It field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.1	
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are requires which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface to does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete. Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 08/22/2024	

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QUESTIONS, Page 8

Action 376622

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	376622
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.		

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CONDITIONS

Action 376622

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	376622
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	Reclamation approved. Sampling notice submitted for 8/5/24 however confirmation samples were collected 8/6/24.	8/26/2024
scwells	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	8/26/2024