



SITE INFORMATION

Closure Report
Big Eddy SWD (10.06.2023)
Incident # nAPP2328249207
Eddy County, New Mexico
Unit P Sec 03 T20S R31E
32.596636°, -103.850569°

Produced Water Release
Point of Release: Tank Overflow
Release Date: 10.06.2023
Volume Released: 25 Barrels of Produced Water
Volume Recovered: 20 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
NGL Energy Partners, LLC
865 North Albion Street
Denver, CO 80220

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



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September 11, 2024

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

**Re: Work Plan
Big Eddy SWD (10.06.2023)
NGL Water Solutions Permian, LLC
Incident # nAPP2328249207
Site Location: Unit P Sec 03 T20S R31E
(Lat 32.596636°, Long -103.850569°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of NGL Energy Partners (NGL), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Big Eddy SWD (10.06.2023). The site is located at 32.596636°, -103.850569° within Unit P, S03, T20S, R31E in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notification of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 6, 2023, due to pump failure. It resulted in the release of approximately twenty-five (25) barrels of produced water on pad. Approximately twenty (20) barrels of produced water were recovered. Refer to Figure 3. The Notification of Release is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.70 miles southwest of the site in S10, T20S, R31E and was drilled in 1973. The well has a reported depth to groundwater of 130' below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

On September 4, 2024, Carmona Resources, LLC was onsite to drill a groundwater determination bore to 55' below ground surface within a 0.50-mile radius of the location. The groundwater determination bore is located at 32.596976°, -103.849953° in S03, T20S, and R31E. The bore was left open for 72 hours and tagged with a water level meter. The bore did not show signs of water at a depth of 55' below the ground surface (bgs). A copy of the groundwater determination bore log is attached in Appendix D of the amended report.

3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).

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



- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 10,000 mg/kg.

4.0 Site Assessment Activities

Trenching Assessment

On July 31, 2024, Carmona Resources, LLC performed a trenching site assessment to evaluate soil impacts stemming from the release. A total of four (4) trenches (T-1 through T-4) and five (5) horizontal sample points (H-1 through H-5) were advanced to depths ranging from surface to 10' bgs inside the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

The sampling results are summarized in Table 1. See Figure 3 for the sample locations.

5.0 Proposed Work Plan

Based on the analytical data and the detected chloride & TPH concentrations, NGL proposes to remediate the areas shown in Figure 4 and highlighted (blue) in Table 1.

- The areas of T-1 and T-2 will be excavated to a depth of 1.5' bgs and backfilled with clean material to grade.
- An estimated 225 cubic yards will be removed and hauled to the nearest disposal based on the maximum depth. However, it is subject to change if vertical delineation is achieved sooner.
- A variance is requested per 19.15.29.14. An NMAC, Five-point composite bottom floor hole, and sidewall samples will be collected every 500 square feet to represent the release area.
- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.

6.0 Conclusions

Upon completion, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,

Carmona Resources, LLC

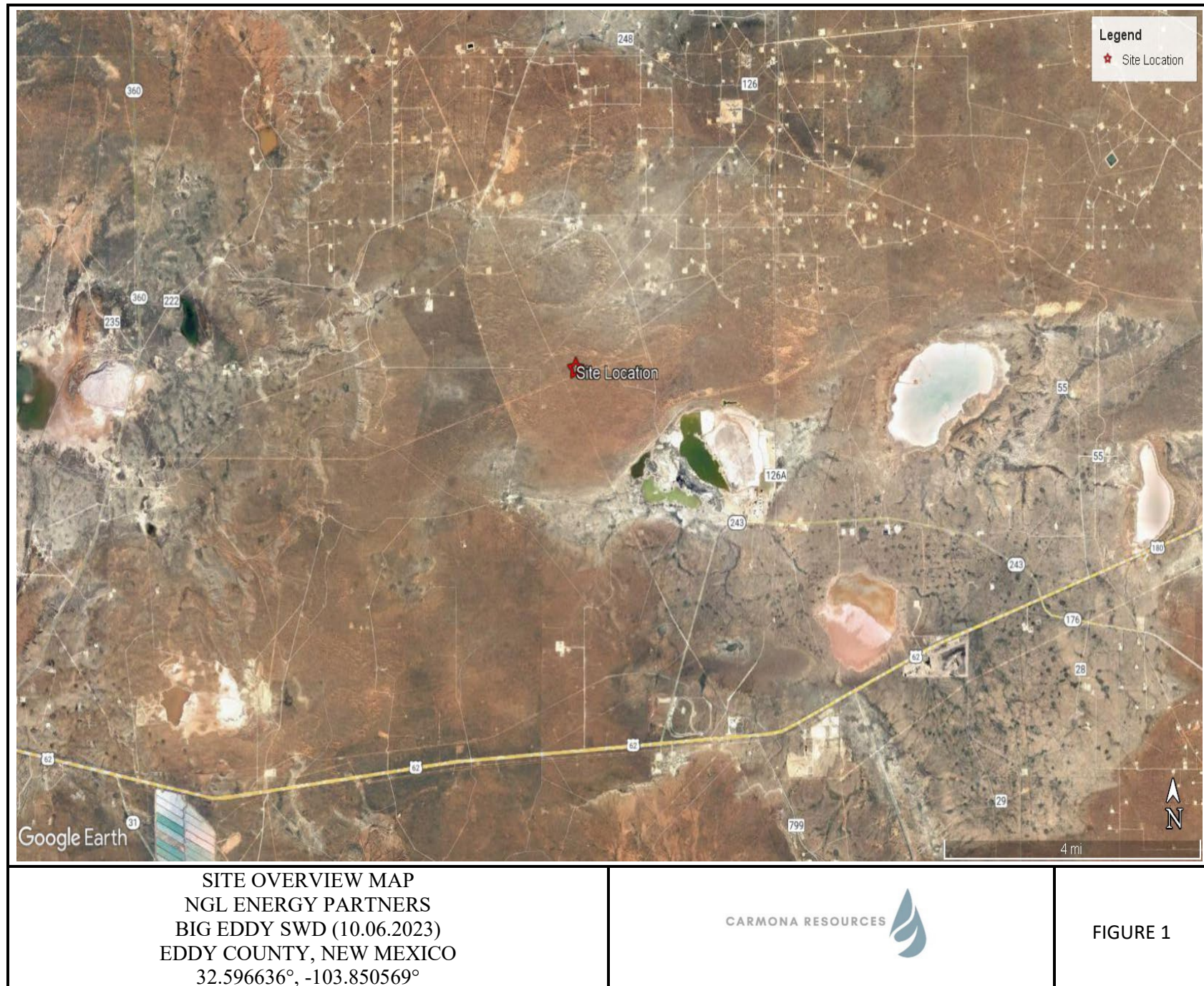
Mike Carmona
Environmental Manager

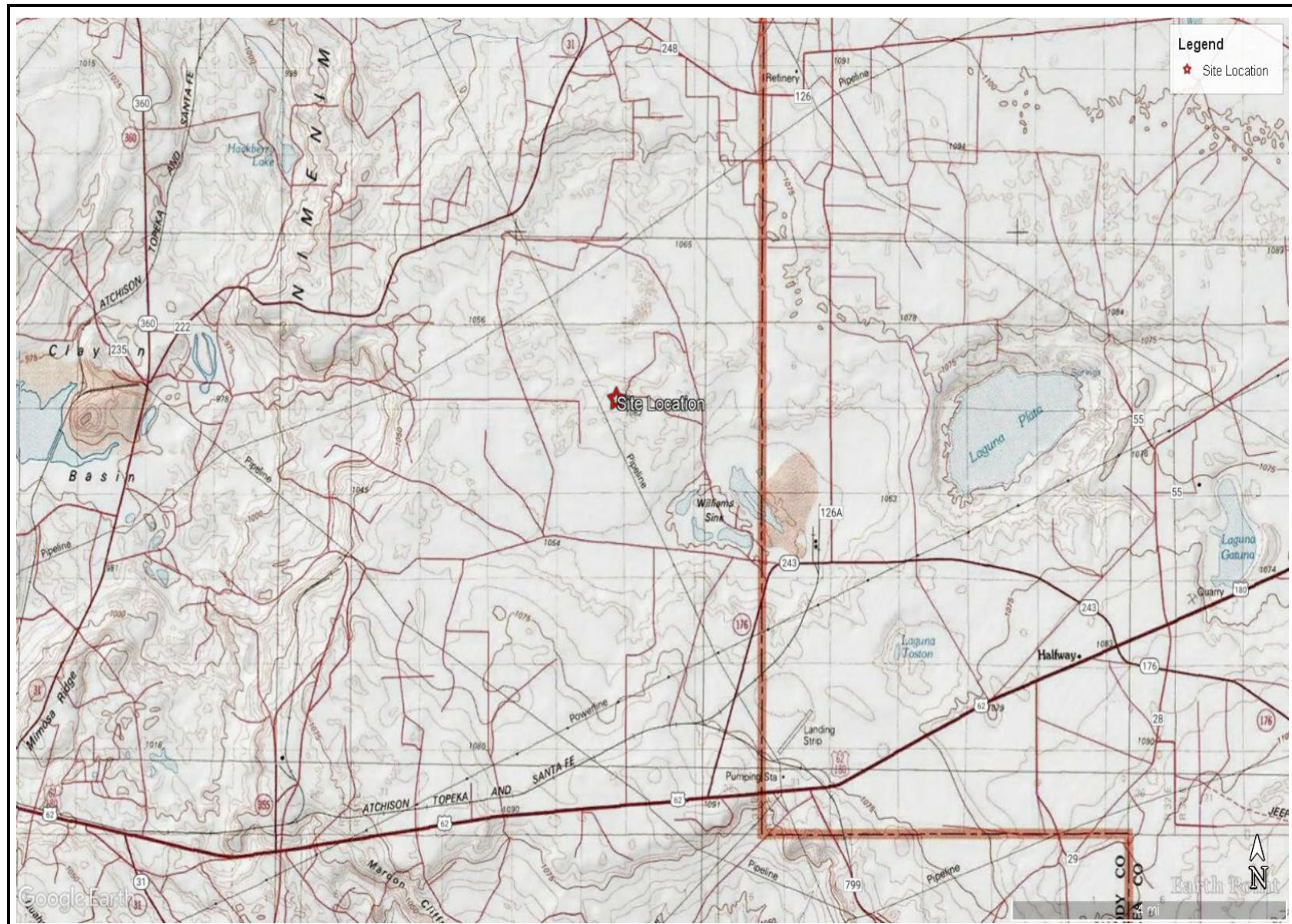
Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



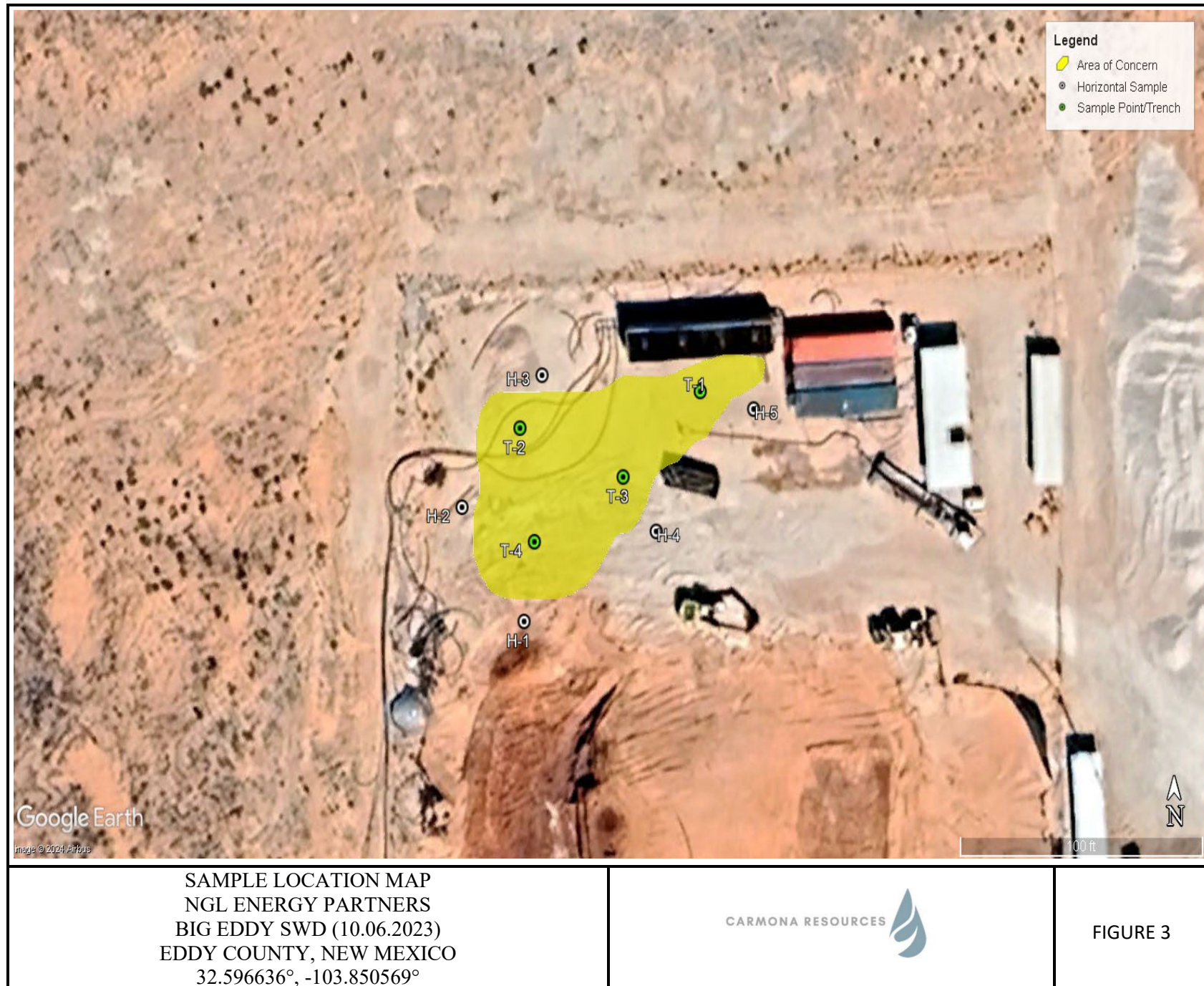




TOPOGRAPHIC MAP
 NGL ENERGY PARTNERS
 BIG EDDY SWD (10.06.2023)
 EDDY COUNTY, NEW MEXICO
 32.596636°, -103.850569°



FIGURE 2





PROPOSED EXCAVATION DEPTH MAP
NGL ENERGY PARTNERS
BIG EDDY SWD (10.06.2023)
EDDY COUNTY, NEW MEXICO
32.596636°, -103.850569°



FIGURE 4

APPENDIX A

CARMONA RESOURCES



Table 1
NGL Water Solutions
Big Eddy (10.06.2023)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	7/31/2024	0-1'	<50.5	1,140	<50.5	1,140	<0.100	<0.100	0.106	3.69	3.80	6,380
	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	0.00881	0.00881	1,180
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,350
	"	3.0'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	503
	"	4.0'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,030
	"	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,200
	"	6.0'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	518
	"	7.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	465
	"	8.0'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	823
T-2	7/31/2024	0-1'	<49.8	6530	<49.8	6,530	<0.101	<0.101	<0.101	1.65	1.65	8,290
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	921
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	143
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	417
	"	4.0'	<49.8	250	<49.8	250	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,110
	"	5.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	0.00731	0.00731	107
T-3	7/31/2024	0-1'	<50.5	519	<50.5	519	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	884
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	0.0563	0.0563	2,390
	"	2.0'	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	4,720
	"	3.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	5,060
	"	4.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	5,080
	"	5.0'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	0.00882	0.00882	4,450
	"	6.0'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,030
	"	7.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,420
	"	8.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,410
T-4	7/31/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	277
	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	132
	"	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	298
	"	3.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	38.8
	"	4.0'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	199
H-1	7/31/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	156
H-2	7/31/2024	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	237
H-3	7/31/2024	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	147
H-4	7/31/2024	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	159
H-5	7/31/2024	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	162
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(T) Trench Sample

(H) Horizontal Point

Proposed Excavation

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

NGL Energy Partners

Photograph No. 1

Facility: Big Eddy SWD (10.06.2023)

County: Eddy County, New Mexico

Description:

View Northwest, area of T-1 & T-2



Photograph No. 2

Facility: Big Eddy SWD (10.06.2023)

County: Eddy County, New Mexico

Description:

View Northeast, area of T-3 & T-4



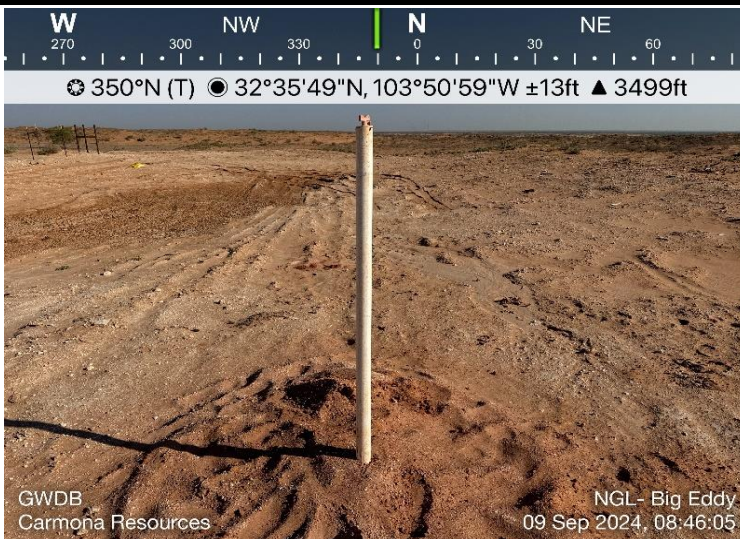
Photograph No. 3

Facility: Big Eddy SWD (10.06.2023)

County: Eddy County, New Mexico

Description:

View of the GWDB installed within the 0.50 mile radius from the location.



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	nAPP2328249207
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	NGL Water Solutions Permian, LLC	OGRID	372338
Contact Name	Joseph Vargo	Contact Telephone	303-815-1010
Contact email	Joseph.Vargo@nglep.com	Incident # (assigned by OCD)	nAPP2328249207
Contact mailing address	865 N. Albion Street, Suite 400, Denver, CO 80220		

Location of Release Source

Latitude 32.596636 Longitude -103.850569
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Big Eddy SWD	Site Type	Saltwater Disposal
Date Release Discovered	10.6.2023	API# (if applicable)	30-015-05819

Unit Letter	Section	Township	Range	County
P	03	20S	31E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 25	Volume Recovered (bbls) 20
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

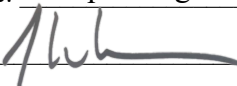
An alarm activated for high tank levels and when activated the permissive didn't relay property and shut-off the pumps as intended. This caused the system to continue transferring fluid into the tanks.

Incident ID	nAPP2328249207
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Yes, more than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, NOR was filed on 10.9 and BLM - surface owner - was noticed same day.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Joseph Vargo</u>	Title: <u>Regulatory Director</u>
Signature: <u></u>	Date: <u>10.9.2023</u>
email: <u>Joseph.Vargo@nglep.com</u>	Telephone: <u>303-815-1010</u>
<u>OCD Only</u> Received by: <u>Shelly Wells</u> Date: <u>10/10/2023</u>	

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

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

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

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

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

CONDITIONS

Action 273725

CONDITIONS

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 273725
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

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

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

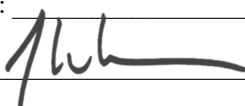
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____
Signature:  _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX D

CARMONA RESOURCES



Nearest water well

NGL - Big Eddy SWD

Legend

- 0.50 Mile Radius
- 0.70 Mile Radius
- NMSEO Water Well
- Big Eddy SWD



Big Eddy SWD

130' - Drilled 1973



Groundwater Determination Bore Map

Legend

- 0.50 Mile Radius
- GWDB - 55'
- Site Location





Project Name :	Big Eddy SWD #1	Date :	Wednesday, September 4, 2024
Project No. :	2441	Sampler :	Ivan Ramos
Location :	Eddy County, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.596976, -103.849953	Method :	Air Rotary
Elevation :	3501 feet		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		0' - Tan, moderately cemented, subangular, small gravel with 90% fine, silty soft, loose sand. Moist, no odor, some organics (SM).		50		50' - Pinkish brown, poorly cemented, subrounded, small sandstone nodules with 95% fine, silty soft, very loose sand. Dry, no odor, no organics (SM).	
5		5' - Yellowish orange, poorly cemented, subangular, small to medium gravel with 55% fine, silty soft, loose sand. Moist, no odor, no organics (SP).		55		55' - Pinkish brown, poorly cemented, subrounded, small sandstone nodules with 95% fine, silty soft, very loose sand. Dry, no odor, no organics (SM).	
10		10' - Reddish brown, fine, silty soft, loose sand. Moist, no odor, no organics (SM).		60			
15		15' - Reddish yellow, fine, silty soft, very loose sand. Moist, no odor, no organics (SM).		65			
20		20' - Reddish yellow, fine, silty soft, very loose sand. Moist, no odor, no organics (SM).		70			
25		25' - Pinkish tan, poorly cemented, subangular, small gravel with 98% fine, silty soft, very loose sand. Dry, no odor, no organics (SM).		75			
30		30' - Tan, strongly cemented, subangular, small to medium sandstone nodules with 50% fine, silty soft, very loose sand. Dry, no odor, no organics (SW).		80			
35		35' - Pinkish brown, strongly cemented, subangular, small gravel with 60% fine, silty soft, loose sand. Dry, no odor, no organics (SP).		85			
40		40' - Reddish yellow, moderately cemented, subrounded, small sandstone nodules with 90% fine, silty soft, loose sand. Dry, no odor, no organics (SM).		90			
45		45' - Pinkish tan, strongly cemented, subrounded, small to medium sandstone nodules with 85% fine, silty soft, very loose sand. Dry, no odor, no organics (SM).		95			
50				105			

Comments : (09/04/24) Boring terminated at 55' bgs at 11:45 A.M. Mountain Time with no presence of groundwater or moisture.

LOW KARST

NGL - BIG EDDY SWD

Legend

-  BIG EDDY SWD
-  High
-  Low
-  Medium

 BIG EDDY SWD



2 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00359	CP	LE		4	3	16	20S	31E		605483	3603944*	133		
CP 00368	CP	LE			2	36	20S	31E		610955	3600163*	303		
CP 00370	CP	LE		1	1	36	20S	31E		609945	3600358*	120	80	40
CP 00520	CP	ED		4	4	1	10	20S	31E	607163	3606278*	280	130	150

Average Depth to Water: **105 feet**

Minimum Depth: **80 feet**

Maximum Depth: **130 feet**

Record Count: 4

PLSS Search:

Township: 20S

Range: 31E

*UTM location was derived from PLSS - see Help

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

10/17/22 3:34 PM

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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)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	CP 00520	4	4	1	10	20S	31E	607163	3606278*
Driller License:	46	Driller Company:		ABBOTT BROTHERS COMPANY					
Driller Name:	ABBOTT, MURRELL								
Drill Start Date:	07/23/1973	Drill Finish Date:		07/25/1973		Plug Date:			
Log File Date:	07/31/1973	PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:	7.00	Depth Well:		280 feet		Depth Water:		130 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		176	190	Sandstone/Gravel/Conglomerate					

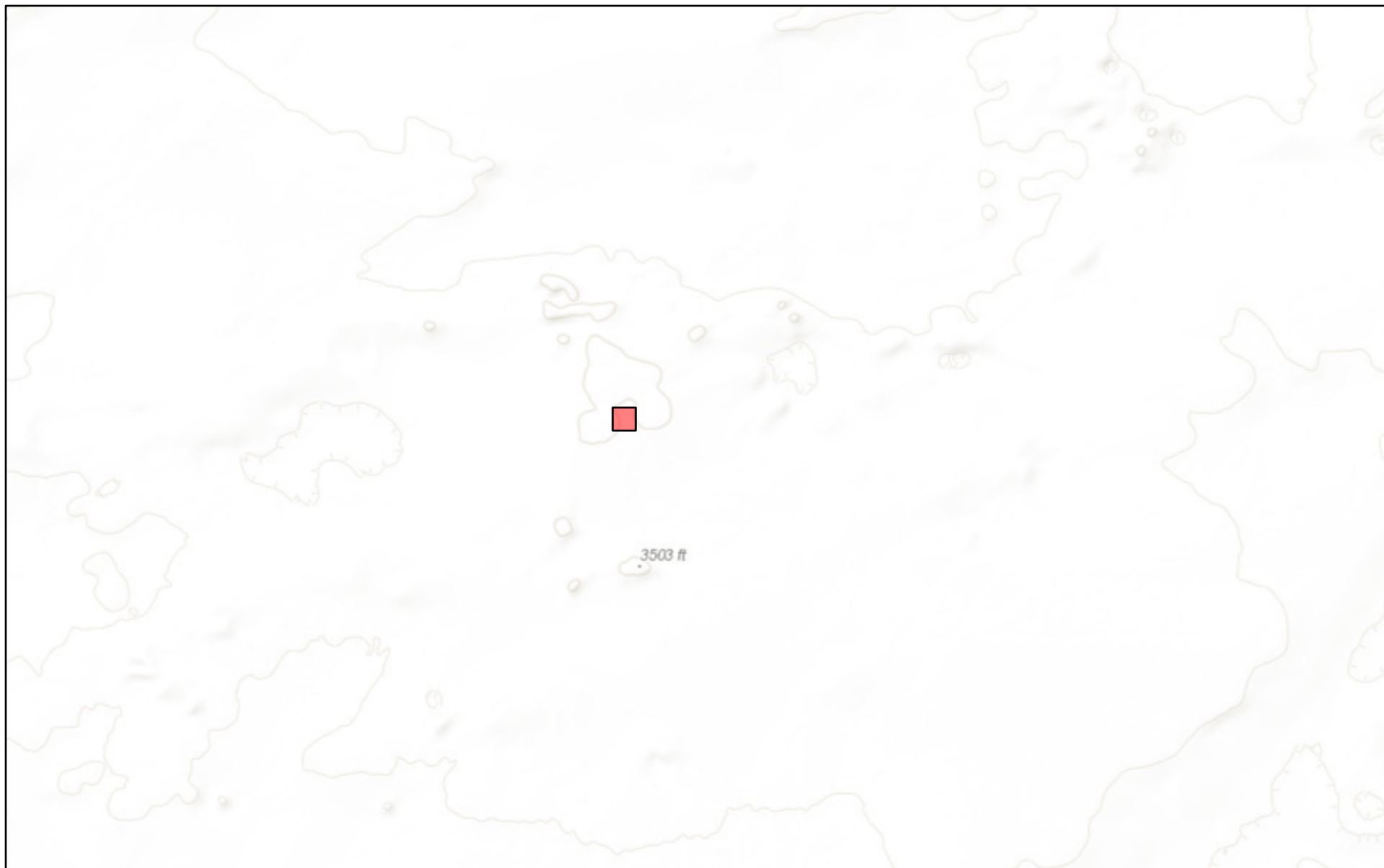
*UTM location was derived from PLSS - see Help

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

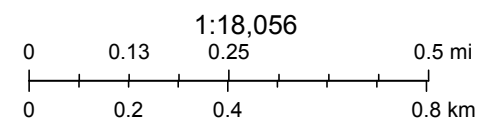
10/18/22 12:34 PM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



October 17, 2022



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

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Project Name :	Big Eddy SWD #1	Date :	Wednesday, September 4, 2024
Project No. :	2441	Sampler :	Ivan Ramos
Location :	Eddy County, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.596976, -103.849953	Method :	Air Rotary
Elevation :	3501 feet		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		0' - Tan, moderately cemented, subangular, small gravel with 90% fine, silty soft, loose sand. Moist, no odor, some organics (SM).		50		50' - Pinkish brown, poorly cemented, subrounded, small sandstone nodules with 95% fine, silty soft, very loose sand. Dry, no odor, no organics (SM).	
5		5' - Yellowish orange, poorly cemented, subangular, small to medium gravel with 55% fine, silty soft, loose sand. Moist, no odor, no organics (SP).		55		55' - Pinkish brown, poorly cemented, subrounded, small sandstone nodules with 95% fine, silty soft, very loose sand. Dry, no odor, no organics (SM).	
10		10' - Reddish brown, fine, silty soft, loose sand. Moist, no odor, no organics (SM).		60			
15		15' - Reddish yellow, fine, silty soft, very loose sand. Moist, no odor, no organics (SM).		65			
20		20' - Reddish yellow, fine, silty soft, very loose sand. Moist, no odor, no organics (SM).		70			
25		25' - Pinkish tan, poorly cemented, subangular, small gravel with 98% fine, silty soft, very loose sand. Dry, no odor, no organics (SM).		75			
30		30' - Tan, strongly cemented, subangular, small to medium sandstone nodules with 50% fine, silty soft, very loose sand. Dry, no odor, no organics (SW).		80			
35		35' - Pinkish brown, strongly cemented, subangular, small gravel with 60% fine, silty soft, loose sand. Dry, no odor, no organics (SP).		85			
40		40' - Reddish yellow, moderately cemented, subrounded, small sandstone nodules with 90% fine, silty soft, loose sand. Dry, no odor, no organics (SM).		90			
45		45' - Pinkish tan, strongly cemented, subrounded, small to medium sandstone nodules with 85% fine, silty soft, very loose sand. Dry, no odor, no organics (SM).		95			
50				105			

Comments : (09/04/24) Boring terminated at 55' bgs at 11:45 A.M. Mountain Time with no presence of groundwater or moisture.

APPENDIX E

CARMONA RESOURCES





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/9/2024 12:59:22 PM

JOB DESCRIPTION

Big Eddy (10.09.23)
Eddy County NM

JOB NUMBER

880-46869-1

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
8/9/2024 12:59:22 PM

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

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Laboratory Job ID: 880-46869-1
SDG: Eddy County NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Big Eddy (10.09.23)

Job ID: 880-46869-1

Job ID: 880-46869-1

Eurofins Midland

Job Narrative 880-46869-1

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 8/5/2024 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: T-1 (0-1') (880-46869-1), T-1 (1.5') (880-46869-2), T-1 (2') (880-46869-3), T-1 (3') (880-46869-4), T-1 (4') (880-46869-5), T-1 (5') (880-46869-6), T-1 (6') (880-46869-7), T-1 (7') (880-46869-8), T-2 (0-1') (880-46869-9), T-2 (1.5') (880-46869-10), T-2 (2') (880-46869-11), T-2 (3') (880-46869-12), T-2 (4') (880-46869-13), T-2 (5') (880-46869-14), T-3 (0-1') (880-46869-15), T-3 (1.5') (880-46869-16), T-3 (2') (880-46869-17), T-3 (3') (880-46869-18), T-3 (4') (880-46869-19), T-3 (5') (880-46869-20), T-3 (6') (880-46869-21), T-3 (7') (880-46869-22), T-4 (0-1') (880-46869-23), T-4 (1.5') (880-46869-24), T-4 (2') (880-46869-25), T-4 (3') (880-46869-26), T-4 (4') (880-46869-27), T-1 (8') (880-46869-28), T-1 (9') (880-46869-29), T-1 (10') (880-46869-30), T-3 (8') (880-46869-31), T-3 (9') (880-46869-32) and T-3 (10') (880-46869-33).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-87630 and analytical batch 880-87710 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: T-1 (0-1') (880-46869-1) and T-2 (0-1') (880-46869-9). Elevated reporting limits (RLs) are provided.

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 880-87743 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: Surrogate recovery for the following samples were outside control limits: T-1 (1.5') (880-46869-2), T-1 (2') (880-46869-3), T-1 (4') (880-46869-5) and T-2 (3') (880-46869-12). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87743 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. The associated sample is impacted: (CCV 880-87743/58).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87886 and analytical batch 880-87894 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87584 and analytical batch 880-87700 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: T-3 (2') (880-46869-17), T-3 (3') (880-46869-18), T-3 (5') (880-46869-20), T-3 (7') (880-46869-22), T-4 (0-1') (880-46869-23), T-4 (1.5') (880-46869-24), T-4 (2')

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Case Narrative

Client: Carmona Resources
Project: Big Eddy (10.09.23)

Job ID: 880-46869-1

Job ID: 880-46869-1 (Continued) Eurofins Midland

(880-46869-25), T-4 (4') (880-46869-27), T-1 (8') (880-46869-28), T-1 (9') (880-46869-29), T-1 (10') (880-46869-30), T-3 (8') (880-46869-31), T-3 (9') (880-46869-32) and T-3 (10') (880-46869-33). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87584 and analytical batch 880-87700 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: T-1 (0-1') (880-46869-1) and T-2 (0-1') (880-46869-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87679 and analytical batch 880-87723 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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (0-1')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100		mg/Kg		08/08/24 08:30	08/08/24 14:52	50
Toluene	<0.100	U	0.100		mg/Kg		08/08/24 08:30	08/08/24 14:52	50
Ethylbenzene	0.106		0.100		mg/Kg		08/08/24 08:30	08/08/24 14:52	50
m-Xylene & p-Xylene	0.372		0.200		mg/Kg		08/08/24 08:30	08/08/24 14:52	50
o-Xylene	3.32		0.100		mg/Kg		08/08/24 08:30	08/08/24 14:52	50
Xylenes, Total	3.69		0.200		mg/Kg		08/08/24 08:30	08/08/24 14:52	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/08/24 08:30	08/08/24 14:52	50
1,4-Difluorobenzene (Surr)	129		70 - 130				08/08/24 08:30	08/08/24 14:52	50

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.80		0.200		mg/Kg			08/08/24 14:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1140		50.5		mg/Kg			08/08/24 14:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/08/24 11:53	08/08/24 14:55	1
Diesel Range Organics (Over C10-C28)	1140		50.5		mg/Kg		08/08/24 11:53	08/08/24 14:55	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/08/24 11:53	08/08/24 14:55	1
Total TPH	1140		50.5		mg/Kg		08/08/24 11:53	08/08/24 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/08/24 11:53	08/08/24 14:55	1
o-Terphenyl	142	S1+	70 - 130				08/08/24 11:53	08/08/24 14:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6380		49.8		mg/Kg			08/08/24 10:04	10

Client Sample ID: T-1 (1.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:01	08/07/24 23:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:01	08/07/24 23:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:01	08/07/24 23:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/06/24 12:01	08/07/24 23:32	1
o-Xylene	0.00881		0.00200		mg/Kg		08/06/24 12:01	08/07/24 23:32	1
Xylenes, Total	0.00881		0.00401		mg/Kg		08/06/24 12:01	08/07/24 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/06/24 12:01	08/07/24 23:32	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/06/24 12:01	08/07/24 23:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (1.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00881		0.00401		mg/Kg			08/07/24 23:32	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/08/24 02:54	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 02:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 02:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 02:54	1
Total TPH	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				08/05/24 17:01	08/08/24 02:54	1
o-Terphenyl	122		70 - 130				08/05/24 17:01	08/08/24 02:54	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		5.02		mg/Kg			08/08/24 10:20	1

Client Sample ID: T-1 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:01	08/07/24 23:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:01	08/07/24 23:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:01	08/07/24 23:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 12:01	08/07/24 23:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:01	08/07/24 23:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 12:01	08/07/24 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/06/24 12:01	08/07/24 23:12	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/06/24 12:01	08/07/24 23:12	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/07/24 23:12	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/08/24 03:10	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 03:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (2')

Lab Sample ID: 880-46869-3

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 03:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 03:10	1
Total TPH	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				08/05/24 17:01	08/08/24 03:10	1
o-Terphenyl	121		70 - 130				08/05/24 17:01	08/08/24 03:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		4.99		mg/Kg			08/08/24 10:25	1

Client Sample ID: T-1 (3')

Lab Sample ID: 880-46869-4

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/06/24 12:01	08/07/24 23:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/06/24 12:01	08/07/24 23:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/06/24 12:01	08/07/24 23:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/06/24 12:01	08/07/24 23:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/06/24 12:01	08/07/24 23:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/06/24 12:01	08/07/24 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/06/24 12:01	08/07/24 23:53	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/06/24 12:01	08/07/24 23:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/07/24 23:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/08/24 03:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/05/24 17:01	08/08/24 03:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/05/24 17:01	08/08/24 03:26	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/05/24 17:01	08/08/24 03:26	1
Total TPH	<49.7	U	49.7		mg/Kg		08/05/24 17:01	08/08/24 03:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/05/24 17:01	08/08/24 03:26	1
o-Terphenyl	101		70 - 130				08/05/24 17:01	08/08/24 03:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	503		4.97		mg/Kg			08/08/24 10:31	1

Client Sample ID: T-1 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 11:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 11:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 11:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/24 08:30	08/08/24 11:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 11:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/24 08:30	08/08/24 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/08/24 08:30	08/08/24 11:59	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/08/24 08:30	08/08/24 11:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/24 11:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/08/24 03:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/05/24 17:01	08/08/24 03:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/05/24 17:01	08/08/24 03:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/05/24 17:01	08/08/24 03:42	1
Total TPH	<49.7	U	49.7		mg/Kg		08/05/24 17:01	08/08/24 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				08/05/24 17:01	08/08/24 03:42	1
o-Terphenyl	120		70 - 130				08/05/24 17:01	08/08/24 03:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030		25.0		mg/Kg			08/08/24 10:36	5

Client Sample ID: T-1 (5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 12:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 12:48	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (5')

Lab Sample ID: 880-46869-6

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 12:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/24 08:30	08/08/24 12:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 12:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/24 08:30	08/08/24 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/08/24 08:30	08/08/24 12:48	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/08/24 08:30	08/08/24 12:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/08/24 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/08/24 03:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 03:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 03:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 03:57	1
Total TPH	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				08/05/24 17:01	08/08/24 03:57	1
o-Terphenyl	97		70 - 130				08/05/24 17:01	08/08/24 03:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		5.02		mg/Kg			08/08/24 10:41	1

Client Sample ID: T-1 (6')

Lab Sample ID: 880-46869-7

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 13:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 13:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 13:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/24 08:30	08/08/24 13:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 13:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/24 08:30	08/08/24 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/08/24 08:30	08/08/24 13:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/08/24 08:30	08/08/24 13:09	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (6')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-7
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/24 13:09	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			08/08/24 04:30	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 04:30	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 04:30	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 04:30	1	
Total TPH	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 04:30	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	118		70 - 130				08/05/24 17:01	08/08/24 04:30	1	
o-Terphenyl	102		70 - 130				08/05/24 17:01	08/08/24 04:30	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	518		5.01		mg/Kg			08/08/24 10:46	1	

Client Sample ID: T-1 (7')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 13:30	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 13:30	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 13:30	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/24 08:30	08/08/24 13:30	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 13:30	1	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/24 08:30	08/08/24 13:30	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		70 - 130				08/08/24 08:30	08/08/24 13:30	1	
1,4-Difluorobenzene (Surr)	92		70 - 130				08/08/24 08:30	08/08/24 13:30	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/24 13:30	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			08/08/24 04:46	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 04:46	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (7')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 04:46	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 04:46	1	
Total TPH	<49.9	U	49.9		mg/Kg		08/05/24 17:01	08/08/24 04:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	125		70 - 130				08/05/24 17:01	08/08/24 04:46	1	
o-Terphenyl	110		70 - 130				08/05/24 17:01	08/08/24 04:46	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	465		4.98		mg/Kg			08/08/24 10:51	1	

Client Sample ID: T-2 (0-1')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.101	U	0.101		mg/Kg		08/08/24 08:30	08/08/24 15:13	50	
Toluene	<0.101	U	0.101		mg/Kg		08/08/24 08:30	08/08/24 15:13	50	
Ethylbenzene	<0.101	U	0.101		mg/Kg		08/08/24 08:30	08/08/24 15:13	50	
m-Xylene & p-Xylene	<0.202	U	0.202		mg/Kg		08/08/24 08:30	08/08/24 15:13	50	
o-Xylene	1.65		0.101		mg/Kg		08/08/24 08:30	08/08/24 15:13	50	
Xylenes, Total	1.65		0.202		mg/Kg		08/08/24 08:30	08/08/24 15:13	50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	76		70 - 130				08/08/24 08:30	08/08/24 15:13	50	
1,4-Difluorobenzene (Surr)	93		70 - 130				08/08/24 08:30	08/08/24 15:13	50	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	1.65		0.202		mg/Kg			08/08/24 15:13	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	6530		49.8		mg/Kg			08/08/24 15:12	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/24 11:53	08/08/24 15:12	1	
Diesel Range Organics (Over C10-C28)	6530		49.8		mg/Kg		08/08/24 11:53	08/08/24 15:12	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/24 11:53	08/08/24 15:12	1	
Total TPH	6530		49.8		mg/Kg		08/08/24 11:53	08/08/24 15:12	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	93		70 - 130				08/08/24 11:53	08/08/24 15:12	1	
o-Terphenyl	135	S1+	70 - 130				08/08/24 11:53	08/08/24 15:12	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-2 (0-1')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8290	F1	50.3		mg/Kg			08/08/24 17:02	10

Client Sample ID: T-2 (1.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/24 08:30	08/08/24 13:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/24 08:30	08/08/24 13:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/24 08:30	08/08/24 13:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/24 08:30	08/08/24 13:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/24 08:30	08/08/24 13:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/24 08:30	08/08/24 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/08/24 08:30	08/08/24 13:50	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/08/24 08:30	08/08/24 13:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/08/24 05:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 05:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 05:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 05:18	1
Total TPH	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				08/05/24 17:01	08/08/24 05:18	1
o-Terphenyl	106		70 - 130				08/05/24 17:01	08/08/24 05:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	921		5.02		mg/Kg			08/08/24 17:24	1

Client Sample ID: T-2 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 16:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 16:38	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-2 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 16:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/24 08:30	08/08/24 16:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 16:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/24 08:30	08/08/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/08/24 08:30	08/08/24 16:38	1
1,4-Difluorobenzene (Surr)	87		70 - 130				08/08/24 08:30	08/08/24 16:38	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/24 16:38	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/08/24 05:34	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 05:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 05:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 05:34	1
Total TPH	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				08/05/24 17:01	08/08/24 05:34	1
o-Terphenyl	103		70 - 130				08/05/24 17:01	08/08/24 05:34	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		5.03		mg/Kg			08/08/24 17:32	1

Client Sample ID: T-2 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 16:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 16:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 16:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 16:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 16:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/08/24 08:30	08/08/24 16:59	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/08/24 08:30	08/08/24 16:59	1

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-2 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-12
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/08/24 16:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/08/24 05:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 05:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 05:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 05:50	1
Total TPH	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 05:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				08/05/24 17:01	08/08/24 05:50	1
o-Terphenyl	117		70 - 130				08/05/24 17:01	08/08/24 05:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	417		4.96		mg/Kg			08/08/24 17:39	1

Client Sample ID: T-2 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 17:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 17:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 17:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/24 08:30	08/08/24 17:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 17:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/24 08:30	08/08/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/08/24 08:30	08/08/24 17:19	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/08/24 08:30	08/08/24 17:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/24 17:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	250		49.8		mg/Kg			08/08/24 15:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/08/24 11:53	08/08/24 15:45	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-2 (4')

Lab Sample ID: 880-46869-13

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	250		49.8		mg/Kg		08/08/24 11:53	08/08/24 15:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/24 11:53	08/08/24 15:45	1
Total TPH	250		49.8		mg/Kg		08/08/24 11:53	08/08/24 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/08/24 11:53	08/08/24 15:45	1
o-Terphenyl	114		70 - 130				08/08/24 11:53	08/08/24 15:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2110		25.0		mg/Kg			08/08/24 17:47	5

Client Sample ID: T-2 (5')

Lab Sample ID: 880-46869-14

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 17:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 17:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 17:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/24 08:30	08/08/24 17:40	1
o-Xylene	0.00731		0.00200		mg/Kg		08/08/24 08:30	08/08/24 17:40	1
Xylenes, Total	0.00731		0.00399		mg/Kg		08/08/24 08:30	08/08/24 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/08/24 08:30	08/08/24 17:40	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/08/24 08:30	08/08/24 17:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00731		0.00399		mg/Kg			08/08/24 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/08/24 06:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 06:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 06:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 06:22	1
Total TPH	<49.8	U	49.8		mg/Kg		08/05/24 17:01	08/08/24 06:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				08/05/24 17:01	08/08/24 06:22	1
o-Terphenyl	115		70 - 130				08/05/24 17:01	08/08/24 06:22	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-2 (5')

Lab Sample ID: 880-46869-14

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		5.04		mg/Kg			08/08/24 18:09	1

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

Lab Sample ID: 880-46869-15

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 18:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 18:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 18:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 18:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 18:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/08/24 08:30	08/08/24 18:01	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/24 08:30	08/08/24 18:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/08/24 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	519		50.5		mg/Kg			08/08/24 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/08/24 11:53	08/08/24 16:01	1
Diesel Range Organics (Over C10-C28)	519		50.5		mg/Kg		08/08/24 11:53	08/08/24 16:01	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/08/24 11:53	08/08/24 16:01	1
Total TPH	519		50.5		mg/Kg		08/08/24 11:53	08/08/24 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	08/08/24 11:53	08/08/24 16:01	1
o-Terphenyl	100		70 - 130	08/08/24 11:53	08/08/24 16:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	884		5.05		mg/Kg			08/08/24 18:16	1

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-46869-16

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 18:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 18:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (1.5')

Lab Sample ID: 880-46869-16

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 18:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/24 08:30	08/08/24 18:21	1
o-Xylene	0.0563		0.00202		mg/Kg		08/08/24 08:30	08/08/24 18:21	1
Xylenes, Total	0.0563		0.00404		mg/Kg		08/08/24 08:30	08/08/24 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/08/24 08:30	08/08/24 18:21	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/08/24 08:30	08/08/24 18:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0563		0.00404		mg/Kg			08/08/24 18:21	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			08/08/24 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 06:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 06:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 06:55	1
Total TPH	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	08/05/24 17:01	08/08/24 06:55	1
o-Terphenyl	108		70 - 130	08/05/24 17:01	08/08/24 06:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390		25.3		mg/Kg			08/08/24 18:23	5

Client Sample ID: T-3 (2')

Lab Sample ID: 880-46869-17

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 18:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 18:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 18:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/08/24 08:30	08/08/24 18:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/24 08:30	08/08/24 18:42	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/08/24 08:30	08/08/24 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/08/24 08:30	08/08/24 18:42	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/08/24 08:30	08/08/24 18:42	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-17
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/08/24 18:42	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7		mg/Kg			08/07/24 20:31	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/07/24 20:31	1	
Diesel Range Organics (Over C10-C28)	<49.7	U F1	49.7		mg/Kg		08/06/24 08:05	08/07/24 20:31	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/07/24 20:31	1	
Total TPH	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/07/24 20:31	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	142	S1+	70 - 130				08/06/24 08:05	08/07/24 20:31	1	
o-Terphenyl	158	S1+	70 - 130				08/06/24 08:05	08/07/24 20:31	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	4720		50.4		mg/Kg			08/08/24 18:31	10	

Client Sample ID: T-3 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 19:02	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 19:02	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 19:02	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/24 08:30	08/08/24 19:02	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 19:02	1	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/24 08:30	08/08/24 19:02	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	108		70 - 130				08/08/24 08:30	08/08/24 19:02	1	
1,4-Difluorobenzene (Surr)	93		70 - 130				08/08/24 08:30	08/08/24 19:02	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/24 19:02	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			08/07/24 21:33	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 21:33	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (3')

Lab Sample ID: 880-46869-18

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 21:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 21:33	1
Total TPH	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				08/06/24 08:05	08/07/24 21:33	1
o-Terphenyl	138	S1+	70 - 130				08/06/24 08:05	08/07/24 21:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5060		49.8		mg/Kg			08/08/24 18:38	10

Client Sample ID: T-3 (4')

Lab Sample ID: 880-46869-19

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 19:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 19:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 19:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 19:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 19:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/08/24 08:30	08/08/24 19:23	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/08/24 08:30	08/08/24 19:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/08/24 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/07/24 21:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 21:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 21:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 21:54	1
Total TPH	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/06/24 08:05	08/07/24 21:54	1
o-Terphenyl	117		70 - 130				08/06/24 08:05	08/07/24 21:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5080	F1	49.9		mg/Kg			08/08/24 18:45	10

Client Sample ID: T-3 (5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-20
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 19:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 19:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/24 08:30	08/08/24 19:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/24 08:30	08/08/24 19:44	1
o-Xylene	0.00882		0.00201		mg/Kg		08/08/24 08:30	08/08/24 19:44	1
Xylenes, Total	0.00882		0.00402		mg/Kg		08/08/24 08:30	08/08/24 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/08/24 08:30	08/08/24 19:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/08/24 08:30	08/08/24 19:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00882		0.00402		mg/Kg			08/08/24 19:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/07/24 22:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 22:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 22:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 22:14	1
Total TPH	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/06/24 08:05	08/07/24 22:14	1
o-Terphenyl	142	S1+	70 - 130				08/06/24 08:05	08/07/24 22:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4450		50.2		mg/Kg			08/08/24 19:08	10

Client Sample ID: T-3 (6')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-21
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 00:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 00:57	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (6')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-21
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 00:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/06/24 11:55	08/08/24 00:57	1
o-Xylene	<0.00201	U *	0.00201		mg/Kg		08/06/24 11:55	08/08/24 00:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/06/24 11:55	08/08/24 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				08/06/24 11:55	08/08/24 00:57	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/06/24 11:55	08/08/24 00:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/24 00:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/07/24 22:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/07/24 22:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/07/24 22:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/07/24 22:35	1
Total TPH	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/07/24 22:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/06/24 08:05	08/07/24 22:35	1
o-Terphenyl	109		70 - 130				08/06/24 08:05	08/07/24 22:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		25.1		mg/Kg			08/08/24 19:15	5

Client Sample ID: T-3 (7')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 01:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 01:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 01:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/06/24 11:55	08/08/24 01:18	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/06/24 11:55	08/08/24 01:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/06/24 11:55	08/08/24 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/06/24 11:55	08/08/24 01:18	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/06/24 11:55	08/08/24 01:18	1

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (7')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/08/24 01:18	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		mg/Kg			08/07/24 22:55	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/07/24 22:55	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/07/24 22:55	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/07/24 22:55	1	
Total TPH	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/07/24 22:55	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	121		70 - 130				08/06/24 08:05	08/07/24 22:55	1	
o-Terphenyl	132	S1+	70 - 130				08/06/24 08:05	08/07/24 22:55	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2420		24.9		mg/Kg			08/08/24 19:37	5	

Client Sample ID: T-4 (0-1')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 01:38	1	
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 01:38	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 01:38	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 01:38	1	
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/06/24 11:55	08/08/24 01:38	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 01:38	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		70 - 130				08/06/24 11:55	08/08/24 01:38	1	
1,4-Difluorobenzene (Surr)	117		70 - 130				08/06/24 11:55	08/08/24 01:38	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 01:38	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			08/07/24 23:16	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 23:16	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-4 (0-1')

Lab Sample ID: 880-46869-23

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 23:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 23:16	1
Total TPH	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/06/24 08:05	08/07/24 23:16	1
o-Terphenyl	138	S1+	70 - 130				08/06/24 08:05	08/07/24 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	277		4.98		mg/Kg			08/08/24 19:44	1

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-46869-24

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/06/24 11:55	08/08/24 01:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/06/24 11:55	08/08/24 01:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/06/24 11:55	08/08/24 01:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/06/24 11:55	08/08/24 01:59	1
o-Xylene	<0.00198	U *	0.00198		mg/Kg		08/06/24 11:55	08/08/24 01:59	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/06/24 11:55	08/08/24 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/06/24 11:55	08/08/24 01:59	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/06/24 11:55	08/08/24 01:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/08/24 01:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/07/24 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 23:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 23:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 23:36	1
Total TPH	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/06/24 08:05	08/07/24 23:36	1
o-Terphenyl	143	S1+	70 - 130				08/06/24 08:05	08/07/24 23:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-4 (1.5')

Lab Sample ID: 880-46869-24

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.95		mg/Kg			08/08/24 19:52	1

Client Sample ID: T-4 (2')

Lab Sample ID: 880-46869-25

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 02:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 02:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 02:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 02:19	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/06/24 11:55	08/08/24 02:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/06/24 11:55	08/08/24 02:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/06/24 11:55	08/08/24 02:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 02:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/07/24 23:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 23:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 23:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 23:57	1
Total TPH	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/07/24 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				08/06/24 08:05	08/07/24 23:57	1
o-Terphenyl	154	S1+	70 - 130				08/06/24 08:05	08/07/24 23:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	298		5.00		mg/Kg			08/08/24 19:59	1

Client Sample ID: T-4 (3')

Lab Sample ID: 880-46869-26

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 02:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 02:40	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-4 (3')

Lab Sample ID: 880-46869-26

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 02:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/06/24 11:55	08/08/24 02:40	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/06/24 11:55	08/08/24 02:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/06/24 11:55	08/08/24 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/06/24 11:55	08/08/24 02:40	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/06/24 11:55	08/08/24 02:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/24 02:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/08/24 00:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/08/24 00:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/08/24 00:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/08/24 00:17	1
Total TPH	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/08/24 00:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				08/06/24 08:05	08/08/24 00:17	1
o-Terphenyl	130		70 - 130				08/06/24 08:05	08/08/24 00:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.8		5.05		mg/Kg			08/08/24 20:07	1

Client Sample ID: T-4 (4')

Lab Sample ID: 880-46869-27

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 03:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 03:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 03:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/06/24 11:55	08/08/24 03:00	1
o-Xylene	<0.00201	U *	0.00201		mg/Kg		08/06/24 11:55	08/08/24 03:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/06/24 11:55	08/08/24 03:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/06/24 11:55	08/08/24 03:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130				08/06/24 11:55	08/08/24 03:00	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-4 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-27
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/24 03:00	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7		mg/Kg			08/08/24 00:58	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/08/24 00:58	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/08/24 00:58	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/08/24 00:58	1	
Total TPH	<49.7	U	49.7		mg/Kg		08/06/24 08:05	08/08/24 00:58	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	141	S1+	70 - 130				08/06/24 08:05	08/08/24 00:58	1	
o-Terphenyl	162	S1+	70 - 130				08/06/24 08:05	08/08/24 00:58	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	199		5.02		mg/Kg			08/08/24 20:14	1	

Client Sample ID: T-1 (8')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-28
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:55	08/08/24 03:21	1	
Toluene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:55	08/08/24 03:21	1	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/06/24 11:55	08/08/24 03:21	1	
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/06/24 11:55	08/08/24 03:21	1	
o-Xylene	<0.00202	U **	0.00202		mg/Kg		08/06/24 11:55	08/08/24 03:21	1	
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/06/24 11:55	08/08/24 03:21	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	113		70 - 130				08/06/24 11:55	08/08/24 03:21	1	
1,4-Difluorobenzene (Surr)	107		70 - 130				08/06/24 11:55	08/08/24 03:21	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/08/24 03:21	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		mg/Kg			08/08/24 01:18	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/08/24 01:18	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (8')

Lab Sample ID: 880-46869-28

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/08/24 01:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/08/24 01:18	1
Total TPH	<49.8	U	49.8		mg/Kg		08/06/24 08:05	08/08/24 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				08/06/24 08:05	08/08/24 01:18	1
o-Terphenyl	168	S1+	70 - 130				08/06/24 08:05	08/08/24 01:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	823		5.05		mg/Kg			08/08/24 20:21	1

Client Sample ID: T-1 (9')

Lab Sample ID: 880-46869-29

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 03:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 03:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 03:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 03:41	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/06/24 11:55	08/08/24 03:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				08/06/24 11:55	08/08/24 03:41	1
1,4-Difluorobenzene (Surr)	116		70 - 130				08/06/24 11:55	08/08/24 03:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 03:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/08/24 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 01:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 01:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 01:38	1
Total TPH	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/06/24 08:05	08/08/24 01:38	1
o-Terphenyl	144	S1+	70 - 130				08/06/24 08:05	08/08/24 01:38	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (9')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-29
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	507		5.05		mg/Kg			08/08/24 12:30	1

Client Sample ID: T-1 (10')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-30
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 04:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 04:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 04:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 04:02	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/06/24 11:55	08/08/24 04:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/06/24 11:55	08/08/24 04:02	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/06/24 11:55	08/08/24 04:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 04:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/08/24 01:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/08/24 01:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/08/24 01:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/08/24 01:59	1
Total TPH	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/08/24 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				08/06/24 08:05	08/08/24 01:59	1
o-Terphenyl	143	S1+	70 - 130				08/06/24 08:05	08/08/24 01:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.6		5.04		mg/Kg			08/08/24 12:49	1

Client Sample ID: T-3 (8')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-31
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 05:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 05:52	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (8')

Lab Sample ID: 880-46869-31

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 05:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/06/24 11:55	08/08/24 05:52	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/06/24 11:55	08/08/24 05:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/06/24 11:55	08/08/24 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				08/06/24 11:55	08/08/24 05:52	1
1,4-Difluorobenzene (Surr)	112		70 - 130				08/06/24 11:55	08/08/24 05:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/24 05:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/08/24 02:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/08/24 02:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/08/24 02:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/08/24 02:19	1
Total TPH	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/08/24 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				08/06/24 08:05	08/08/24 02:19	1
o-Terphenyl	150	S1+	70 - 130				08/06/24 08:05	08/08/24 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		5.02		mg/Kg			08/08/24 12:55	1

Client Sample ID: T-3 (9')

Lab Sample ID: 880-46869-32

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 06:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 06:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/06/24 11:55	08/08/24 06:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/06/24 11:55	08/08/24 06:12	1
o-Xylene	<0.00201	U *	0.00201		mg/Kg		08/06/24 11:55	08/08/24 06:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/06/24 11:55	08/08/24 06:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/06/24 11:55	08/08/24 06:12	1
1,4-Difluorobenzene (Surr)	111		70 - 130				08/06/24 11:55	08/08/24 06:12	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (9')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-32
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/24 06:12	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			08/08/24 02:39	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 02:39	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 02:39	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 02:39	1	
Total TPH	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 02:39	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	130		70 - 130				08/06/24 08:05	08/08/24 02:39	1	
o-Terphenyl	146	S1+	70 - 130				08/06/24 08:05	08/08/24 02:39	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2510		24.9		mg/Kg			08/08/24 13:01	5	

Client Sample ID: T-3 (10')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-33
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 06:33	1	
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 06:33	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 11:55	08/08/24 06:33	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 06:33	1	
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/06/24 11:55	08/08/24 06:33	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 11:55	08/08/24 06:33	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	109		70 - 130				08/06/24 11:55	08/08/24 06:33	1	
1,4-Difluorobenzene (Surr)	119		70 - 130				08/06/24 11:55	08/08/24 06:33	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/24 06:33	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			08/08/24 02:59	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 02:59	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (10')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-33
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 02:59	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 02:59	1	
Total TPH	<49.9	U	49.9		mg/Kg		08/06/24 08:05	08/08/24 02:59	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	287	S1+	70 - 130				08/06/24 08:05	08/08/24 02:59	1	
o-Terphenyl	314	S1+	70 - 130				08/06/24 08:05	08/08/24 02:59	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	28.1		4.96		mg/Kg			08/08/24 13:07	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-46869-1	T-1 (0-1')	93	129
880-46869-2	T-1 (1.5')	106	95
880-46869-3	T-1 (2')	105	97
880-46869-3 MS	T-1 (2')	100	101
880-46869-3 MSD	T-1 (2')	99	95
880-46869-4	T-1 (3')	109	93
880-46869-5	T-1 (4')	101	92
880-46869-6	T-1 (5')	105	90
880-46869-7	T-1 (6')	104	90
880-46869-8	T-1 (7')	106	92
880-46869-9	T-2 (0-1')	76	93
880-46869-10	T-2 (1.5')	102	91
880-46869-11	T-2 (2')	91	87
880-46869-12	T-2 (3')	99	89
880-46869-13	T-2 (4')	98	89
880-46869-14	T-2 (5')	91	90
880-46869-15	T-3 (0-1')	98	90
880-46869-16	T-3 (1.5')	97	92
880-46869-17	T-3 (2')	105	92
880-46869-18	T-3 (3')	108	93
880-46869-19	T-3 (4')	105	93
880-46869-20	T-3 (5')	107	94
880-46869-21	T-3 (6')	82	110
880-46869-21 MS	T-3 (6')	96	105
880-46869-21 MSD	T-3 (6')	105	99
880-46869-22	T-3 (7')	93	104
880-46869-23	T-4 (0-1')	103	117
880-46869-24	T-4 (1.5')	103	113
880-46869-25	T-4 (2')	103	109
880-46869-26	T-4 (3')	106	110
880-46869-27	T-4 (4')	111	116
880-46869-28	T-1 (8')	113	107
880-46869-29	T-1 (9')	117	116
880-46869-30	T-1 (10')	111	108
880-46869-31	T-3 (8')	90	112
880-46869-32	T-3 (9')	110	111
880-46869-33	T-3 (10')	109	119
880-47002-A-1-B MS	Matrix Spike	91	102
880-47002-A-1-C MSD	Matrix Spike Duplicate	91	101
LCS 880-87630/1-A	Lab Control Sample	101	102
LCS 880-87631/1-A	Lab Control Sample	96	98
LCS 880-87824/1-A	Lab Control Sample	90	109
LCSD 880-87630/2-A	Lab Control Sample Dup	101	106
LCSD 880-87631/2-A	Lab Control Sample Dup	96	98
LCSD 880-87824/2-A	Lab Control Sample Dup	91	107
MB 880-87482/5-A	Method Blank	125	92
MB 880-87630/5-A	Method Blank	119	102
MB 880-87631/5-A	Method Blank	98	84
MB 880-87632/5-A	Method Blank	97	82

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Surrogate Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-87824/5-A	Method Blank	92	84
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-46847-A-1-H MS	Matrix Spike	114	121
880-46847-A-1-I MSD	Matrix Spike Duplicate	111	115
880-46869-1	T-1 (0-1')	99	142 S1+
880-46869-2	T-1 (1.5')	138 S1+	122
880-46869-3	T-1 (2')	134 S1+	121
880-46869-4	T-1 (3')	115	101
880-46869-5	T-1 (4')	132 S1+	120
880-46869-6	T-1 (5')	113	97
880-46869-7	T-1 (6')	118	102
880-46869-8	T-1 (7')	125	110
880-46869-9	T-2 (0-1')	93	135 S1+
880-46869-10	T-2 (1.5')	118	106
880-46869-11	T-2 (2')	121	103
880-46869-12	T-2 (3')	131 S1+	117
880-46869-13	T-2 (4')	95	114
880-46869-14	T-2 (5')	127	115
880-46869-15	T-3 (0-1')	82	100
880-46869-16	T-3 (1.5')	122	108
880-46869-17	T-3 (2')	142 S1+	158 S1+
880-46869-17 MS	T-3 (2')	107	108
880-46869-17 MSD	T-3 (2')	98	99
880-46869-18	T-3 (3')	125	138 S1+
880-46869-19	T-3 (4')	107	117
880-46869-20	T-3 (5')	130	142 S1+
880-46869-21	T-3 (6')	101	109
880-46869-22	T-3 (7')	121	132 S1+
880-46869-23	T-4 (0-1')	128	138 S1+
880-46869-24	T-4 (1.5')	130	143 S1+
880-46869-25	T-4 (2')	137 S1+	154 S1+
880-46869-26	T-4 (3')	120	130
880-46869-27	T-4 (4')	141 S1+	162 S1+
880-46869-28	T-1 (8')	153 S1+	168 S1+
880-46869-29	T-1 (9')	130	144 S1+
880-46869-30	T-1 (10')	129	143 S1+
880-46869-31	T-3 (8')	136 S1+	150 S1+
880-46869-32	T-3 (9')	130	146 S1+
880-46869-33	T-3 (10')	287 S1+	314 S1+
LCS 880-87572/2-A	Lab Control Sample	111	101
LCS 880-87584/2-A	Lab Control Sample	110	118

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Surrogate Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCS 880-87886/2-A	Lab Control Sample	100	102
LCSD 880-87572/3-A	Lab Control Sample Dup	115	108
LCSD 880-87584/3-A	Lab Control Sample Dup	100	111
LCSD 880-87886/3-A	Lab Control Sample Dup	94	93
MB 880-87572/1-A	Method Blank	99	85
MB 880-87584/1-A	Method Blank	173 S1+	201 S1+
MB 880-87886/1-A	Method Blank	69 S1-	81
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87482/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87710							Prep Batch: 87482		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:50	08/07/24 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:50	08/07/24 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:50	08/07/24 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 09:50	08/07/24 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:50	08/07/24 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 09:50	08/07/24 12:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				08/05/24 09:50	08/07/24 12:45	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/05/24 09:50	08/07/24 12:45	1

Lab Sample ID: MB 880-87630/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87710							Prep Batch: 87630		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 00:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 00:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 00:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/24 11:55	08/08/24 00:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 11:55	08/08/24 00:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/24 11:55	08/08/24 00:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				08/06/24 11:55	08/08/24 00:29	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/06/24 11:55	08/08/24 00:29	1

Lab Sample ID: LCS 880-87630/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87710							Prep Batch: 87630		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1097		mg/Kg		110	70 - 130		
Toluene	0.100	0.1026		mg/Kg		103	70 - 130		
Ethylbenzene	0.100	0.1055		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene	0.200	0.2283		mg/Kg		114	70 - 130		
o-Xylene	0.100	0.1311	*+	mg/Kg		131	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: LCSD 880-87630/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87710							Prep Batch: 87630		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-87630/2-A

Matrix: Solid

Analysis Batch: 87710

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87630

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.1048		mg/Kg		105	70 - 130		2	35
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130		1	35
m-Xylene & p-Xylene	0.200	0.2345		mg/Kg		117	70 - 130		3	35
o-Xylene	0.100	0.1323	*+	mg/Kg		132	70 - 130		1	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-46869-21 MS

Matrix: Solid

Analysis Batch: 87710

Client Sample ID: T-3 (6')

Prep Type: Total/NA

Prep Batch: 87630

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00201	U	0.0998	0.09897		mg/Kg		99	70 - 130	
Toluene	<0.00201	U	0.0998	0.09362		mg/Kg		94	70 - 130	
Ethylbenzene	<0.00201	U	0.0998	0.08232		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1867		mg/Kg		94	70 - 130	
o-Xylene	<0.00201	U *+	0.0998	0.1160		mg/Kg		116	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-46869-21 MSD

Matrix: Solid

Analysis Batch: 87710

Client Sample ID: T-3 (6')

Prep Type: Total/NA

Prep Batch: 87630

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00201	U	0.100	0.09866		mg/Kg		98	70 - 130		0	35
Toluene	<0.00201	U	0.100	0.1012		mg/Kg		101	70 - 130		8	35
Ethylbenzene	<0.00201	U	0.100	0.09193		mg/Kg		92	70 - 130		11	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2187		mg/Kg		109	70 - 130		16	35
o-Xylene	<0.00201	U *+	0.100	0.1294		mg/Kg		129	70 - 130		11	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-87631/5-A

Matrix: Solid

Analysis Batch: 87705

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87631

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:01	08/07/24 22:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:01	08/07/24 22:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:01	08/07/24 22:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/24 12:01	08/07/24 22:50	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-87631/5-A

Matrix: Solid

Analysis Batch: 87705

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87631

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:01	08/07/24 22:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/24 12:01	08/07/24 22:50	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	98		70 - 130				08/06/24 12:01	08/07/24 22:50	1
1,4-Difluorobenzene (Surr)	84		70 - 130				08/06/24 12:01	08/07/24 22:50	1

Lab Sample ID: LCS 880-87631/1-A

Matrix: Solid

Analysis Batch: 87705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87631

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits		
		Result	Qualifier						
Benzene	0.100	0.09919		mg/Kg		99	70 - 130		
Toluene	0.100	0.08727		mg/Kg		87	70 - 130		
Ethylbenzene	0.100	0.09348		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene	0.200	0.1847		mg/Kg		92	70 - 130		
o-Xylene	0.100	0.09509		mg/Kg		95	70 - 130		
Surrogate	LCS	LCS	Limits				%Recovery	Qualifier	
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	96		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: LCSD 880-87631/2-A

Matrix: Solid

Analysis Batch: 87705

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87631

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.100	0.1014		mg/Kg		101	70 - 130	2	35
Toluene	0.100	0.08916		mg/Kg		89	70 - 130	2	35
Ethylbenzene	0.100	0.09564		mg/Kg		96	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1898		mg/Kg		95	70 - 130	3	35
o-Xylene	0.100	0.09746		mg/Kg		97	70 - 130	2	35
Surrogate	LCSD	LCSD	Limits				%Recovery	Qualifier	
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	96		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 880-46869-3 MS

Matrix: Solid

Analysis Batch: 87705

Client Sample ID: T-1 (2')

Prep Type: Total/NA

Prep Batch: 87631

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00199	U	0.0998	0.09679		mg/Kg		97	70 - 130		
Toluene	<0.00199	U	0.0998	0.08389		mg/Kg		84	70 - 130		
Ethylbenzene	<0.00199	U	0.0998	0.08782		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1727		mg/Kg		87	70 - 130		
o-Xylene	<0.00199	U	0.0998	0.08884		mg/Kg		89	70 - 130		

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: 880-46869-3 MS
Matrix: Solid
Analysis Batch: 87705

Client Sample ID: T-1 (2')
Prep Type: Total/NA
Prep Batch: 87631

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-46869-3 MSD
Matrix: Solid
Analysis Batch: 87705

Client Sample ID: T-1 (2')
Prep Type: Total/NA
Prep Batch: 87631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08929		mg/Kg		89	70 - 130	8	35
Toluene	<0.00199	U	0.100	0.07811		mg/Kg		78	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.100	0.08258		mg/Kg		82	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1619		mg/Kg		81	70 - 130	6	35
o-Xylene	<0.00199	U	0.100	0.08552		mg/Kg		85	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-87632/5-A
Matrix: Solid
Analysis Batch: 87705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:05	08/07/24 11:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:05	08/07/24 11:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:05	08/07/24 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/24 12:05	08/07/24 11:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:05	08/07/24 11:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/24 12:05	08/07/24 11:20	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				08/06/24 12:05	08/07/24 11:20	1
1,4-Difluorobenzene (Surr)	82		70 - 130				08/06/24 12:05	08/07/24 11:20	1

Lab Sample ID: MB 880-87824/5-A
Matrix: Solid
Analysis Batch: 87819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 08:30	08/08/24 11:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 08:30	08/08/24 11:17	1

QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-87824/5-A

Matrix: Solid

Analysis Batch: 87819

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87824

	MB	MB			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	92		70 - 130	08/08/24 08:30	08/08/24 11:17
1,4-Difluorobenzene (Surr)	84		70 - 130	08/08/24 08:30	08/08/24 11:17

Lab Sample ID: LCS 880-87824/1-A

Matrix: Solid

Analysis Batch: 87819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09419		mg/Kg		94	70 - 130
Toluene	0.100	0.07935		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08419		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1609		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08327		mg/Kg		83	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-87824/2-A

Matrix: Solid

Analysis Batch: 87819

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87824

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09478		mg/Kg		95	70 - 130	1	35
Toluene	0.100	0.07984		mg/Kg		80	70 - 130	1	35
Ethylbenzene	0.100	0.08471		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1634		mg/Kg		82	70 - 130	2	35
o-Xylene	0.100	0.08470		mg/Kg		85	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-47002-A-1-B MS

Matrix: Solid

Analysis Batch: 87819

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.09186		mg/Kg		92	70 - 130
Toluene	<0.00202	U	0.100	0.07941		mg/Kg		79	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.08549		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1667		mg/Kg		83	70 - 130
o-Xylene	<0.00202	U	0.100	0.08378		mg/Kg		84	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: 880-47002-A-1-C MSD
Matrix: Solid
Analysis Batch: 87819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08943		mg/Kg		89	70 - 130	3	35
Toluene	<0.00202	U	0.100	0.07623		mg/Kg		76	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.100	0.08211		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1603		mg/Kg		80	70 - 130	4	35
o-Xylene	<0.00202	U	0.100	0.08070		mg/Kg		81	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

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

Lab Sample ID: MB 880-87572/1-A
Matrix: Solid
Analysis Batch: 87743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 00:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 00:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 00:13	1
Total TPH	<50.0	U	50.0		mg/Kg		08/05/24 17:01	08/08/24 00:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits		Prepared		Analyzed		Dil Fac
1-Chlorooctane	99		70 - 130		08/05/24 17:01		08/08/24 00:13		1
o-Terphenyl	85		70 - 130		08/05/24 17:01		08/08/24 00:13		1

Lab Sample ID: LCS 880-87572/2-A
Matrix: Solid
Analysis Batch: 87743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1163		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	992.8		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	111		70 - 130				
o-Terphenyl	101		70 - 130				

Lab Sample ID: LCSD 880-87572/3-A
Matrix: Solid
Analysis Batch: 87743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1198		mg/Kg		120	70 - 130	3	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-87572/3-A

Matrix: Solid

Analysis Batch: 87743

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87572

			Spike	LCSD	LCSD				%Rec	RPD	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Diesel Range Organics (Over C10-C28)			1000	1066		mg/Kg		107	70 - 130	7	200 - 300
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 880-46847-A-1-E MS

Matrix: Solid

Analysis Batch: 87743

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87572

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	945.8		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	142		995	890.2		mg/Kg		75	70 - 130		

Lab Sample ID: 880-46847-A-1-F MSD

Matrix: Solid

Analysis Batch: 87743

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	940.5		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	142		995	867.2		mg/Kg		73	70 - 130	3	20

Lab Sample ID: MB 880-87584/1-A

Matrix: Solid

Analysis Batch: 87700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87584

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 19:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 19:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 19:29	1
Total TPH	<50.0	U	50.0		mg/Kg		08/06/24 08:05	08/07/24 19:29	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
1-Chlorooctane	173	S1+	70 - 130				08/06/24 08:05	08/07/24 19:29	1
o-Terphenyl	201	S1+	70 - 130				08/06/24 08:05	08/07/24 19:29	1

Lab Sample ID: LCS 880-87584/2-A

Matrix: Solid

Analysis Batch: 87700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	915.3		mg/Kg		92	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-87584/2-A				Client Sample ID: Lab Control Sample					
Matrix: Solid				Prep Type: Total/NA					
Analysis Batch: 87700				Prep Batch: 87584					
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)			1000	951.3		mg/Kg		95	70 - 130
		LCS	LCS						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: LCSD 880-87584/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87700				Prep Batch: 87584						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	882.2		mg/Kg		88	70 - 130	4 20
Diesel Range Organics (Over C10-C28)			1000	885.5		mg/Kg		89	70 - 130	7 20
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	100		70 - 130							
o-Terphenyl	111		70 - 130							

Lab Sample ID: 880-46869-17 MS							Client Sample ID: T-3 (2')				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 87700							Prep Batch: 87584				
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	1168		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U F1	999	625.4	F1	mg/Kg		63	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 880-46869-17 MSD				Client Sample ID: T-3 (2')						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87700				Prep Batch: 87584						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	1048		mg/Kg		102	70 - 130	11 20
Diesel Range Organics (Over C10-C28)	<49.7	U F1	999	575.9	F1	mg/Kg		58	70 - 130	8 20
		MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	98		70 - 130							
o-Terphenyl	99		70 - 130							

QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-87886/1-A

Matrix: Solid

Analysis Batch: 87894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87886

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/24 08:53	08/08/24 09:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/24 08:53	08/08/24 09:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/24 08:53	08/08/24 09:36	1
Total TPH	<50.0	U	50.0		mg/Kg		08/08/24 08:53	08/08/24 09:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	08/08/24 08:53	08/08/24 09:36	1
o-Terphenyl	81		70 - 130	08/08/24 08:53	08/08/24 09:36	1

Lab Sample ID: LCS 880-87886/2-A

Matrix: Solid

Analysis Batch: 87894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	848.3		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	946.0		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-87886/3-A

Matrix: Solid

Analysis Batch: 87894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	824.9		mg/Kg		82	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	858.8		mg/Kg		86	70 - 130	10	20

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

Lab Sample ID: 880-46847-A-1-H MS

Matrix: Solid

Analysis Batch: 87894

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87886

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	997	848.8		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	186		997	1005		mg/Kg		82	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Lab Sample ID: 880-46847-A-1-H MS
Matrix: Solid
Analysis Batch: 87894

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87886

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-46847-A-1-I MSD
Matrix: Solid
Analysis Batch: 87894

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87886

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	997	808.3		mg/Kg		81	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	186		997	954.2		mg/Kg		77	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	115		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87676/1-A
Matrix: Solid
Analysis Batch: 87720

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/08/24 08:15	1

Lab Sample ID: LCS 880-87676/2-A
Matrix: Solid
Analysis Batch: 87720

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	228.1		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-87676/3-A
Matrix: Solid
Analysis Batch: 87720

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	229.7		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-46867-A-4-D MS
Matrix: Solid
Analysis Batch: 87720

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	159		249	397.7		mg/Kg		96	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-46867-A-4-E MSD

Matrix: Solid

Analysis Batch: 87720

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	159		249	399.8		mg/Kg		97	90 - 110	1	20

Lab Sample ID: MB 880-87679/1-A

Matrix: Solid

Analysis Batch: 87723

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/08/24 16:40	1

Lab Sample ID: LCS 880-87679/2-A

Matrix: Solid

Analysis Batch: 87723

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.9		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-87679/3-A

Matrix: Solid

Analysis Batch: 87723

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	267.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-46869-9 MS

Matrix: Solid

Analysis Batch: 87723

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8290	F1	2520	11100	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-46869-9 MSD

Matrix: Solid

Analysis Batch: 87723

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8290	F1	2520	11140	F1	mg/Kg		113	90 - 110	0	20

Lab Sample ID: 880-46869-19 MS

Matrix: Solid

Analysis Batch: 87723

Client Sample ID: T-3 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5080	F1	2500	7951	F1	mg/Kg		115	90 - 110

Lab Sample ID: 880-46869-19 MSD

Matrix: Solid

Analysis Batch: 87723

Client Sample ID: T-3 (4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5080	F1	2500	8048	F1	mg/Kg		119	90 - 110	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87680/1-A Matrix: Solid Analysis Batch: 87725										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			08/08/24 12:12	1		

Lab Sample ID: LCS 880-87680/2-A Matrix: Solid Analysis Batch: 87725										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-87680/3-A Matrix: Solid Analysis Batch: 87725										Client Sample ID: Lab Control Sample Dup Prep Type: Soluble	
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.8		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-46869-29 MS Matrix: Solid Analysis Batch: 87725										Client Sample ID: T-1 (9') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	507		253	768.4		mg/Kg		104	90 - 110		

Lab Sample ID: 880-46869-29 MSD Matrix: Solid Analysis Batch: 87725										Client Sample ID: T-1 (9') Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	507		253	768.0		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

GC VOA

Prep Batch: 87482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87482/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 87630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-21	T-3 (6')	Total/NA	Solid	5035	
880-46869-22	T-3 (7')	Total/NA	Solid	5035	
880-46869-23	T-4 (0-1')	Total/NA	Solid	5035	
880-46869-24	T-4 (1.5')	Total/NA	Solid	5035	
880-46869-25	T-4 (2')	Total/NA	Solid	5035	
880-46869-26	T-4 (3')	Total/NA	Solid	5035	
880-46869-27	T-4 (4')	Total/NA	Solid	5035	
880-46869-28	T-1 (8')	Total/NA	Solid	5035	
880-46869-29	T-1 (9')	Total/NA	Solid	5035	
880-46869-30	T-1 (10')	Total/NA	Solid	5035	
880-46869-31	T-3 (8')	Total/NA	Solid	5035	
880-46869-32	T-3 (9')	Total/NA	Solid	5035	
880-46869-33	T-3 (10')	Total/NA	Solid	5035	
MB 880-87630/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87630/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87630/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46869-21 MS	T-3 (6')	Total/NA	Solid	5035	
880-46869-21 MSD	T-3 (6')	Total/NA	Solid	5035	

Prep Batch: 87631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-2	T-1 (1.5')	Total/NA	Solid	5035	
880-46869-3	T-1 (2')	Total/NA	Solid	5035	
880-46869-4	T-1 (3')	Total/NA	Solid	5035	
MB 880-87631/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87631/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87631/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46869-3 MS	T-1 (2')	Total/NA	Solid	5035	
880-46869-3 MSD	T-1 (2')	Total/NA	Solid	5035	

Prep Batch: 87632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87632/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 87705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-2	T-1 (1.5')	Total/NA	Solid	8021B	87631
880-46869-3	T-1 (2')	Total/NA	Solid	8021B	87631
880-46869-4	T-1 (3')	Total/NA	Solid	8021B	87631
MB 880-87631/5-A	Method Blank	Total/NA	Solid	8021B	87631
MB 880-87632/5-A	Method Blank	Total/NA	Solid	8021B	87632
LCS 880-87631/1-A	Lab Control Sample	Total/NA	Solid	8021B	87631
LCSD 880-87631/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87631
880-46869-3 MS	T-1 (2')	Total/NA	Solid	8021B	87631
880-46869-3 MSD	T-1 (2')	Total/NA	Solid	8021B	87631

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QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 87710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-21	T-3 (6')	Total/NA	Solid	8021B	87630
880-46869-22	T-3 (7')	Total/NA	Solid	8021B	87630
880-46869-23	T-4 (0-1')	Total/NA	Solid	8021B	87630
880-46869-24	T-4 (1.5')	Total/NA	Solid	8021B	87630
880-46869-25	T-4 (2')	Total/NA	Solid	8021B	87630
880-46869-26	T-4 (3')	Total/NA	Solid	8021B	87630
880-46869-27	T-4 (4')	Total/NA	Solid	8021B	87630
880-46869-28	T-1 (8')	Total/NA	Solid	8021B	87630
880-46869-29	T-1 (9')	Total/NA	Solid	8021B	87630
880-46869-30	T-1 (10')	Total/NA	Solid	8021B	87630
880-46869-31	T-3 (8')	Total/NA	Solid	8021B	87630
880-46869-32	T-3 (9')	Total/NA	Solid	8021B	87630
880-46869-33	T-3 (10')	Total/NA	Solid	8021B	87630
MB 880-87482/5-A	Method Blank	Total/NA	Solid	8021B	87482
MB 880-87630/5-A	Method Blank	Total/NA	Solid	8021B	87630
LCS 880-87630/1-A	Lab Control Sample	Total/NA	Solid	8021B	87630
LCSD 880-87630/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87630
880-46869-21 MS	T-3 (6')	Total/NA	Solid	8021B	87630
880-46869-21 MSD	T-3 (6')	Total/NA	Solid	8021B	87630

Analysis Batch: 87819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-1	T-1 (0-1')	Total/NA	Solid	8021B	87824
880-46869-5	T-1 (4')	Total/NA	Solid	8021B	87824
880-46869-6	T-1 (5')	Total/NA	Solid	8021B	87824
880-46869-7	T-1 (6')	Total/NA	Solid	8021B	87824
880-46869-8	T-1 (7')	Total/NA	Solid	8021B	87824
880-46869-9	T-2 (0-1')	Total/NA	Solid	8021B	87824
880-46869-10	T-2 (1.5')	Total/NA	Solid	8021B	87824
880-46869-11	T-2 (2')	Total/NA	Solid	8021B	87824
880-46869-12	T-2 (3')	Total/NA	Solid	8021B	87824
880-46869-13	T-2 (4')	Total/NA	Solid	8021B	87824
880-46869-14	T-2 (5')	Total/NA	Solid	8021B	87824
880-46869-15	T-3 (0-1')	Total/NA	Solid	8021B	87824
880-46869-16	T-3 (1.5')	Total/NA	Solid	8021B	87824
880-46869-17	T-3 (2')	Total/NA	Solid	8021B	87824
880-46869-18	T-3 (3')	Total/NA	Solid	8021B	87824
880-46869-19	T-3 (4')	Total/NA	Solid	8021B	87824
880-46869-20	T-3 (5')	Total/NA	Solid	8021B	87824
MB 880-87824/5-A	Method Blank	Total/NA	Solid	8021B	87824
LCS 880-87824/1-A	Lab Control Sample	Total/NA	Solid	8021B	87824
LCSD 880-87824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87824
880-47002-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	87824
880-47002-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87824

Prep Batch: 87824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-1	T-1 (0-1')	Total/NA	Solid	5035	
880-46869-5	T-1 (4')	Total/NA	Solid	5035	
880-46869-6	T-1 (5')	Total/NA	Solid	5035	
880-46869-7	T-1 (6')	Total/NA	Solid	5035	

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QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 87824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-8	T-1 (7')	Total/NA	Solid	5035	
880-46869-9	T-2 (0-1')	Total/NA	Solid	5035	
880-46869-10	T-2 (1.5')	Total/NA	Solid	5035	
880-46869-11	T-2 (2')	Total/NA	Solid	5035	
880-46869-12	T-2 (3')	Total/NA	Solid	5035	
880-46869-13	T-2 (4')	Total/NA	Solid	5035	
880-46869-14	T-2 (5')	Total/NA	Solid	5035	
880-46869-15	T-3 (0-1')	Total/NA	Solid	5035	
880-46869-16	T-3 (1.5')	Total/NA	Solid	5035	
880-46869-17	T-3 (2')	Total/NA	Solid	5035	
880-46869-18	T-3 (3')	Total/NA	Solid	5035	
880-46869-19	T-3 (4')	Total/NA	Solid	5035	
880-46869-20	T-3 (5')	Total/NA	Solid	5035	
MB 880-87824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47002-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-47002-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-1	T-1 (0-1')	Total/NA	Solid	Total BTEX	
880-46869-2	T-1 (1.5')	Total/NA	Solid	Total BTEX	
880-46869-3	T-1 (2')	Total/NA	Solid	Total BTEX	
880-46869-4	T-1 (3')	Total/NA	Solid	Total BTEX	
880-46869-5	T-1 (4')	Total/NA	Solid	Total BTEX	
880-46869-6	T-1 (5')	Total/NA	Solid	Total BTEX	
880-46869-7	T-1 (6')	Total/NA	Solid	Total BTEX	
880-46869-8	T-1 (7')	Total/NA	Solid	Total BTEX	
880-46869-9	T-2 (0-1')	Total/NA	Solid	Total BTEX	
880-46869-10	T-2 (1.5')	Total/NA	Solid	Total BTEX	
880-46869-11	T-2 (2')	Total/NA	Solid	Total BTEX	
880-46869-12	T-2 (3')	Total/NA	Solid	Total BTEX	
880-46869-13	T-2 (4')	Total/NA	Solid	Total BTEX	
880-46869-14	T-2 (5')	Total/NA	Solid	Total BTEX	
880-46869-15	T-3 (0-1')	Total/NA	Solid	Total BTEX	
880-46869-16	T-3 (1.5')	Total/NA	Solid	Total BTEX	
880-46869-17	T-3 (2')	Total/NA	Solid	Total BTEX	
880-46869-18	T-3 (3')	Total/NA	Solid	Total BTEX	
880-46869-19	T-3 (4')	Total/NA	Solid	Total BTEX	
880-46869-20	T-3 (5')	Total/NA	Solid	Total BTEX	
880-46869-21	T-3 (6')	Total/NA	Solid	Total BTEX	
880-46869-22	T-3 (7')	Total/NA	Solid	Total BTEX	
880-46869-23	T-4 (0-1')	Total/NA	Solid	Total BTEX	
880-46869-24	T-4 (1.5')	Total/NA	Solid	Total BTEX	
880-46869-25	T-4 (2')	Total/NA	Solid	Total BTEX	
880-46869-26	T-4 (3')	Total/NA	Solid	Total BTEX	
880-46869-27	T-4 (4')	Total/NA	Solid	Total BTEX	
880-46869-28	T-1 (8')	Total/NA	Solid	Total BTEX	
880-46869-29	T-1 (9')	Total/NA	Solid	Total BTEX	
880-46869-30	T-1 (10')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

GC VOA (Continued)

Analysis Batch: 87897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-31	T-3 (8')	Total/NA	Solid	Total BTEX	
880-46869-32	T-3 (9')	Total/NA	Solid	Total BTEX	
880-46869-33	T-3 (10')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-2	T-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-46869-3	T-1 (2')	Total/NA	Solid	8015NM Prep	
880-46869-4	T-1 (3')	Total/NA	Solid	8015NM Prep	
880-46869-5	T-1 (4')	Total/NA	Solid	8015NM Prep	
880-46869-6	T-1 (5')	Total/NA	Solid	8015NM Prep	
880-46869-7	T-1 (6')	Total/NA	Solid	8015NM Prep	
880-46869-8	T-1 (7')	Total/NA	Solid	8015NM Prep	
880-46869-10	T-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-46869-11	T-2 (2')	Total/NA	Solid	8015NM Prep	
880-46869-12	T-2 (3')	Total/NA	Solid	8015NM Prep	
880-46869-14	T-2 (5')	Total/NA	Solid	8015NM Prep	
880-46869-16	T-3 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-87572/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87572/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46847-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46847-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 87584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-17	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-46869-18	T-3 (3')	Total/NA	Solid	8015NM Prep	
880-46869-19	T-3 (4')	Total/NA	Solid	8015NM Prep	
880-46869-20	T-3 (5')	Total/NA	Solid	8015NM Prep	
880-46869-21	T-3 (6')	Total/NA	Solid	8015NM Prep	
880-46869-22	T-3 (7')	Total/NA	Solid	8015NM Prep	
880-46869-23	T-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-46869-24	T-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-46869-25	T-4 (2')	Total/NA	Solid	8015NM Prep	
880-46869-26	T-4 (3')	Total/NA	Solid	8015NM Prep	
880-46869-27	T-4 (4')	Total/NA	Solid	8015NM Prep	
880-46869-28	T-1 (8')	Total/NA	Solid	8015NM Prep	
880-46869-29	T-1 (9')	Total/NA	Solid	8015NM Prep	
880-46869-30	T-1 (10')	Total/NA	Solid	8015NM Prep	
880-46869-31	T-3 (8')	Total/NA	Solid	8015NM Prep	
880-46869-32	T-3 (9')	Total/NA	Solid	8015NM Prep	
880-46869-33	T-3 (10')	Total/NA	Solid	8015NM Prep	
MB 880-87584/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87584/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87584/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46869-17 MS	T-3 (2')	Total/NA	Solid	8015NM Prep	
880-46869-17 MSD	T-3 (2')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

GC Semi VOA

Analysis Batch: 87700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-17	T-3 (2')	Total/NA	Solid	8015B NM	87584
880-46869-18	T-3 (3')	Total/NA	Solid	8015B NM	87584
880-46869-19	T-3 (4')	Total/NA	Solid	8015B NM	87584
880-46869-20	T-3 (5')	Total/NA	Solid	8015B NM	87584
880-46869-21	T-3 (6')	Total/NA	Solid	8015B NM	87584
880-46869-22	T-3 (7')	Total/NA	Solid	8015B NM	87584
880-46869-23	T-4 (0-1')	Total/NA	Solid	8015B NM	87584
880-46869-24	T-4 (1.5')	Total/NA	Solid	8015B NM	87584
880-46869-25	T-4 (2')	Total/NA	Solid	8015B NM	87584
880-46869-26	T-4 (3')	Total/NA	Solid	8015B NM	87584
880-46869-27	T-4 (4')	Total/NA	Solid	8015B NM	87584
880-46869-28	T-1 (8')	Total/NA	Solid	8015B NM	87584
880-46869-29	T-1 (9')	Total/NA	Solid	8015B NM	87584
880-46869-30	T-1 (10')	Total/NA	Solid	8015B NM	87584
880-46869-31	T-3 (8')	Total/NA	Solid	8015B NM	87584
880-46869-32	T-3 (9')	Total/NA	Solid	8015B NM	87584
880-46869-33	T-3 (10')	Total/NA	Solid	8015B NM	87584
MB 880-87584/1-A	Method Blank	Total/NA	Solid	8015B NM	87584
LCS 880-87584/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87584
LCSD 880-87584/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87584
880-46869-17 MS	T-3 (2')	Total/NA	Solid	8015B NM	87584
880-46869-17 MSD	T-3 (2')	Total/NA	Solid	8015B NM	87584

Analysis Batch: 87743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-2	T-1 (1.5')	Total/NA	Solid	8015B NM	87572
880-46869-3	T-1 (2')	Total/NA	Solid	8015B NM	87572
880-46869-4	T-1 (3')	Total/NA	Solid	8015B NM	87572
880-46869-5	T-1 (4')	Total/NA	Solid	8015B NM	87572
880-46869-6	T-1 (5')	Total/NA	Solid	8015B NM	87572
880-46869-7	T-1 (6')	Total/NA	Solid	8015B NM	87572
880-46869-8	T-1 (7')	Total/NA	Solid	8015B NM	87572
880-46869-10	T-2 (1.5')	Total/NA	Solid	8015B NM	87572
880-46869-11	T-2 (2')	Total/NA	Solid	8015B NM	87572
880-46869-12	T-2 (3')	Total/NA	Solid	8015B NM	87572
880-46869-14	T-2 (5')	Total/NA	Solid	8015B NM	87572
880-46869-16	T-3 (1.5')	Total/NA	Solid	8015B NM	87572
MB 880-87572/1-A	Method Blank	Total/NA	Solid	8015B NM	87572
LCS 880-87572/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87572
LCSD 880-87572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87572
880-46847-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	87572
880-46847-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87572

Analysis Batch: 87855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-1	T-1 (0-1')	Total/NA	Solid	8015 NM	
880-46869-2	T-1 (1.5')	Total/NA	Solid	8015 NM	
880-46869-3	T-1 (2')	Total/NA	Solid	8015 NM	
880-46869-4	T-1 (3')	Total/NA	Solid	8015 NM	
880-46869-5	T-1 (4')	Total/NA	Solid	8015 NM	
880-46869-6	T-1 (5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 87855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-7	T-1 (6')	Total/NA	Solid	8015 NM	
880-46869-8	T-1 (7')	Total/NA	Solid	8015 NM	
880-46869-9	T-2 (0-1')	Total/NA	Solid	8015 NM	
880-46869-10	T-2 (1.5')	Total/NA	Solid	8015 NM	
880-46869-11	T-2 (2')	Total/NA	Solid	8015 NM	
880-46869-12	T-2 (3')	Total/NA	Solid	8015 NM	
880-46869-13	T-2 (4')	Total/NA	Solid	8015 NM	
880-46869-14	T-2 (5')	Total/NA	Solid	8015 NM	
880-46869-15	T-3 (0-1')	Total/NA	Solid	8015 NM	
880-46869-16	T-3 (1.5')	Total/NA	Solid	8015 NM	
880-46869-17	T-3 (2')	Total/NA	Solid	8015 NM	
880-46869-18	T-3 (3')	Total/NA	Solid	8015 NM	
880-46869-19	T-3 (4')	Total/NA	Solid	8015 NM	
880-46869-20	T-3 (5')	Total/NA	Solid	8015 NM	
880-46869-21	T-3 (6')	Total/NA	Solid	8015 NM	
880-46869-22	T-3 (7')	Total/NA	Solid	8015 NM	
880-46869-23	T-4 (0-1')	Total/NA	Solid	8015 NM	
880-46869-24	T-4 (1.5')	Total/NA	Solid	8015 NM	
880-46869-25	T-4 (2')	Total/NA	Solid	8015 NM	
880-46869-26	T-4 (3')	Total/NA	Solid	8015 NM	
880-46869-27	T-4 (4')	Total/NA	Solid	8015 NM	
880-46869-28	T-1 (8')	Total/NA	Solid	8015 NM	
880-46869-29	T-1 (9')	Total/NA	Solid	8015 NM	
880-46869-30	T-1 (10')	Total/NA	Solid	8015 NM	
880-46869-31	T-3 (8')	Total/NA	Solid	8015 NM	
880-46869-32	T-3 (9')	Total/NA	Solid	8015 NM	
880-46869-33	T-3 (10')	Total/NA	Solid	8015 NM	

Prep Batch: 87886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-1	T-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-46869-9	T-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-46869-13	T-2 (4')	Total/NA	Solid	8015NM Prep	
880-46869-15	T-3 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-87886/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87886/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87886/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46847-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46847-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-1	T-1 (0-1')	Total/NA	Solid	8015B NM	87886
880-46869-9	T-2 (0-1')	Total/NA	Solid	8015B NM	87886
880-46869-13	T-2 (4')	Total/NA	Solid	8015B NM	87886
880-46869-15	T-3 (0-1')	Total/NA	Solid	8015B NM	87886
MB 880-87886/1-A	Method Blank	Total/NA	Solid	8015B NM	87886
LCS 880-87886/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87886
LCSD 880-87886/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87886
880-46847-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	87886
880-46847-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87886

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

HPLC/IC

Leach Batch: 87676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-1	T-1 (0-1')	Soluble	Solid	DI Leach	
880-46869-2	T-1 (1.5')	Soluble	Solid	DI Leach	
880-46869-3	T-1 (2')	Soluble	Solid	DI Leach	
880-46869-4	T-1 (3')	Soluble	Solid	DI Leach	
880-46869-5	T-1 (4')	Soluble	Solid	DI Leach	
880-46869-6	T-1 (5')	Soluble	Solid	DI Leach	
880-46869-7	T-1 (6')	Soluble	Solid	DI Leach	
880-46869-8	T-1 (7')	Soluble	Solid	DI Leach	
MB 880-87676/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87676/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87676/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46867-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-46867-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 87679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-9	T-2 (0-1')	Soluble	Solid	DI Leach	
880-46869-10	T-2 (1.5')	Soluble	Solid	DI Leach	
880-46869-11	T-2 (2')	Soluble	Solid	DI Leach	
880-46869-12	T-2 (3')	Soluble	Solid	DI Leach	
880-46869-13	T-2 (4')	Soluble	Solid	DI Leach	
880-46869-14	T-2 (5')	Soluble	Solid	DI Leach	
880-46869-15	T-3 (0-1')	Soluble	Solid	DI Leach	
880-46869-16	T-3 (1.5')	Soluble	Solid	DI Leach	
880-46869-17	T-3 (2')	Soluble	Solid	DI Leach	
880-46869-18	T-3 (3')	Soluble	Solid	DI Leach	
880-46869-19	T-3 (4')	Soluble	Solid	DI Leach	
880-46869-20	T-3 (5')	Soluble	Solid	DI Leach	
880-46869-21	T-3 (6')	Soluble	Solid	DI Leach	
880-46869-22	T-3 (7')	Soluble	Solid	DI Leach	
880-46869-23	T-4 (0-1')	Soluble	Solid	DI Leach	
880-46869-24	T-4 (1.5')	Soluble	Solid	DI Leach	
880-46869-25	T-4 (2')	Soluble	Solid	DI Leach	
880-46869-26	T-4 (3')	Soluble	Solid	DI Leach	
880-46869-27	T-4 (4')	Soluble	Solid	DI Leach	
880-46869-28	T-1 (8')	Soluble	Solid	DI Leach	
MB 880-87679/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87679/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87679/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46869-9 MS	T-2 (0-1')	Soluble	Solid	DI Leach	
880-46869-9 MSD	T-2 (0-1')	Soluble	Solid	DI Leach	
880-46869-19 MS	T-3 (4')	Soluble	Solid	DI Leach	
880-46869-19 MSD	T-3 (4')	Soluble	Solid	DI Leach	

Leach Batch: 87680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-29	T-1 (9')	Soluble	Solid	DI Leach	
880-46869-30	T-1 (10')	Soluble	Solid	DI Leach	
880-46869-31	T-3 (8')	Soluble	Solid	DI Leach	
880-46869-32	T-3 (9')	Soluble	Solid	DI Leach	
880-46869-33	T-3 (10')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

HPLC/IC (Continued)

Leach Batch: 87680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87680/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87680/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87680/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46869-29 MS	T-1 (9')	Soluble	Solid	DI Leach	
880-46869-29 MSD	T-1 (9')	Soluble	Solid	DI Leach	

Analysis Batch: 87720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-1	T-1 (0-1')	Soluble	Solid	300.0	87676
880-46869-2	T-1 (1.5')	Soluble	Solid	300.0	87676
880-46869-3	T-1 (2')	Soluble	Solid	300.0	87676
880-46869-4	T-1 (3')	Soluble	Solid	300.0	87676
880-46869-5	T-1 (4')	Soluble	Solid	300.0	87676
880-46869-6	T-1 (5')	Soluble	Solid	300.0	87676
880-46869-7	T-1 (6')	Soluble	Solid	300.0	87676
880-46869-8	T-1 (7')	Soluble	Solid	300.0	87676
MB 880-87676/1-A	Method Blank	Soluble	Solid	300.0	87676
LCS 880-87676/2-A	Lab Control Sample	Soluble	Solid	300.0	87676
LCSD 880-87676/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87676
880-46867-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	87676
880-46867-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87676

Analysis Batch: 87723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-9	T-2 (0-1')	Soluble	Solid	300.0	87679
880-46869-10	T-2 (1.5')	Soluble	Solid	300.0	87679
880-46869-11	T-2 (2')	Soluble	Solid	300.0	87679
880-46869-12	T-2 (3')	Soluble	Solid	300.0	87679
880-46869-13	T-2 (4')	Soluble	Solid	300.0	87679
880-46869-14	T-2 (5')	Soluble	Solid	300.0	87679
880-46869-15	T-3 (0-1')	Soluble	Solid	300.0	87679
880-46869-16	T-3 (1.5')	Soluble	Solid	300.0	87679
880-46869-17	T-3 (2')	Soluble	Solid	300.0	87679
880-46869-18	T-3 (3')	Soluble	Solid	300.0	87679
880-46869-19	T-3 (4')	Soluble	Solid	300.0	87679
880-46869-20	T-3 (5')	Soluble	Solid	300.0	87679
880-46869-21	T-3 (6')	Soluble	Solid	300.0	87679
880-46869-22	T-3 (7')	Soluble	Solid	300.0	87679
880-46869-23	T-4 (0-1')	Soluble	Solid	300.0	87679
880-46869-24	T-4 (1.5')	Soluble	Solid	300.0	87679
880-46869-25	T-4 (2')	Soluble	Solid	300.0	87679
880-46869-26	T-4 (3')	Soluble	Solid	300.0	87679
880-46869-27	T-4 (4')	Soluble	Solid	300.0	87679
880-46869-28	T-1 (8')	Soluble	Solid	300.0	87679
MB 880-87679/1-A	Method Blank	Soluble	Solid	300.0	87679
LCS 880-87679/2-A	Lab Control Sample	Soluble	Solid	300.0	87679
LCSD 880-87679/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87679
880-46869-9 MS	T-2 (0-1')	Soluble	Solid	300.0	87679
880-46869-9 MSD	T-2 (0-1')	Soluble	Solid	300.0	87679
880-46869-19 MS	T-3 (4')	Soluble	Solid	300.0	87679
880-46869-19 MSD	T-3 (4')	Soluble	Solid	300.0	87679

QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

HPLC/IC

Analysis Batch: 87725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46869-29	T-1 (9')	Soluble	Solid	300.0	87680
880-46869-30	T-1 (10')	Soluble	Solid	300.0	87680
880-46869-31	T-3 (8')	Soluble	Solid	300.0	87680
880-46869-32	T-3 (9')	Soluble	Solid	300.0	87680
880-46869-33	T-3 (10')	Soluble	Solid	300.0	87680
MB 880-87680/1-A	Method Blank	Soluble	Solid	300.0	87680
LCS 880-87680/2-A	Lab Control Sample	Soluble	Solid	300.0	87680
LCSD 880-87680/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87680
880-46869-29 MS	T-1 (9')	Soluble	Solid	300.0	87680
880-46869-29 MSD	T-1 (9')	Soluble	Solid	300.0	87680

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (0-1')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	87819	08/08/24 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 14:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 14:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	87886	08/08/24 11:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87894	08/08/24 14:55	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87720	08/08/24 10:04	CH	EET MID

Client Sample ID: T-1 (1.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	87631	08/06/24 12:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87705	08/07/24 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/07/24 23:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 02:54	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 10:20	CH	EET MID

Client Sample ID: T-1 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87631	08/06/24 12:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87705	08/07/24 23:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/07/24 23:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 03:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 03:10	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 10:25	CH	EET MID

Client Sample ID: T-1 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	87631	08/06/24 12:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87705	08/07/24 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/07/24 23:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87855	08/08/24 03:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 03:26	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 10:31	CH	EET MID

Client Sample ID: T-1 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 11:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 11:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 03:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 03:42	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87720	08/08/24 10:36	CH	EET MID

Client Sample ID: T-1 (5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 12:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 12:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 03:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 03:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 10:41	CH	EET MID

Client Sample ID: T-1 (6')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 13:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 04:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 04:30	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-1 (6')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 10:46	CH	EET MID

Client Sample ID: T-1 (7')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 13:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 04:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 04:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 10:51	CH	EET MID

Client Sample ID: T-2 (0-1')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	87819	08/08/24 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 15:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 15:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87886	08/08/24 11:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87894	08/08/24 15:12	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87723	08/08/24 17:02	CH	EET MID

Client Sample ID: T-2 (1.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 13:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 05:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 05:18	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 17:24	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-2 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 16:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 16:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 05:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 05:34	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 17:32	CH	EET MID

Client Sample ID: T-2 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 16:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 16:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 05:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 05:50	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 17:39	CH	EET MID

Client Sample ID: T-2 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 17:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 15:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87886	08/08/24 11:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87894	08/08/24 15:45	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87723	08/08/24 17:47	CH	EET MID

Client Sample ID: T-2 (5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 17:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-2 (5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87855	08/08/24 06:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 06:22	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 18:09	CH	EET MID

Client Sample ID: T-3 (0-1')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 16:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	87886	08/08/24 11:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87894	08/08/24 16:01	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 18:16	CH	EET MID

Client Sample ID: T-3 (1.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 18:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 06:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87572	08/05/24 17:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/08/24 06:55	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87723	08/08/24 18:23	CH	EET MID

Client Sample ID: T-3 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/07/24 20:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 20:31	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87723	08/08/24 18:31	CH	EET MID

Client Sample ID: T-3 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 19:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/07/24 21:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 21:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87723	08/08/24 18:38	CH	EET MID

Client Sample ID: T-3 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 19:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/07/24 21:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 21:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87723	08/08/24 18:45	CH	EET MID

Client Sample ID: T-3 (5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87824	08/08/24 08:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87819	08/08/24 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 19:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/07/24 22:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 22:14	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87723	08/08/24 19:08	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (6')

Date Collected: 07/31/24 00:00

Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 00:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 00:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/07/24 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 22:35	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87723	08/08/24 19:15	CH	EET MID

Client Sample ID: T-3 (7')

Date Collected: 07/31/24 00:00

Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 01:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 01:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/07/24 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 22:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87723	08/08/24 19:37	CH	EET MID

Client Sample ID: T-4 (0-1')

Date Collected: 07/31/24 00:00

Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 01:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 01:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/07/24 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 23:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 19:44	CH	EET MID

Client Sample ID: T-4 (1.5')

Date Collected: 07/31/24 00:00

Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-24

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 01:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 01:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-4 (1.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87855	08/07/24 23:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 23:36	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 19:52	CH	EET MID

Client Sample ID: T-4 (2')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 02:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 02:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/07/24 23:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/07/24 23:57	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 19:59	CH	EET MID

Client Sample ID: T-4 (3')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 02:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 02:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 00:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/08/24 00:17	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 20:07	CH	EET MID

Client Sample ID: T-4 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 03:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 03:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 00:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/08/24 00:58	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-4 (4')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 20:14	CH	EET MID

Client Sample ID: T-1 (8')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 03:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 03:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 01:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/08/24 01:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87679	08/06/24 15:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87723	08/08/24 20:21	CH	EET MID

Client Sample ID: T-1 (9')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 03:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 03:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 01:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/08/24 01:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87680	08/06/24 15:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87725	08/08/24 12:30	CH	EET MID

Client Sample ID: T-1 (10')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 04:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 04:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/08/24 01:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87680	08/06/24 15:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87725	08/08/24 12:49	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Client Sample ID: T-3 (8')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 05:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 05:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 02:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/08/24 02:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87680	08/06/24 15:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87725	08/08/24 12:55	CH	EET MID

Client Sample ID: T-3 (9')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 06:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 06:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 02:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/08/24 02:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87680	08/06/24 15:53	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87725	08/08/24 13:01	CH	EET MID

Client Sample ID: T-3 (10')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46869-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87630	08/06/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87710	08/08/24 06:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87897	08/08/24 06:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			87855	08/08/24 02:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87584	08/06/24 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87700	08/08/24 02:59	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87680	08/06/24 15:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87725	08/08/24 13:07	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: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46869-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46869-1	T-1 (0-1')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-2	T-1 (1.5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-3	T-1 (2')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-4	T-1 (3')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-5	T-1 (4')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-6	T-1 (5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-7	T-1 (6')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-8	T-1 (7')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-9	T-2 (0-1')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-10	T-2 (1.5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-11	T-2 (2')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-12	T-2 (3')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-13	T-2 (4')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-14	T-2 (5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-15	T-3 (0-1')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-16	T-3 (1.5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-17	T-3 (2')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-18	T-3 (3')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-19	T-3 (4')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-20	T-3 (5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-21	T-3 (6')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-22	T-3 (7')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-23	T-4 (0-1')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-24	T-4 (1.5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-25	T-4 (2')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-26	T-4 (3')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-27	T-4 (4')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-28	T-1 (8')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-29	T-1 (9')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-30	T-1 (10')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-31	T-3 (8')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-32	T-3 (9')	Solid	07/31/24 00:00	08/05/24 14:10
880-46869-33	T-3 (10')	Solid	07/31/24 00:00	08/05/24 14:10

Chain of Custody



880-46869 Chain of Custody

Page 1 of 3

Project Manager:	Connor Moehring	Bill to: (if different)	Joseph Vargo
Company Name:	Carmona Resources	Company Name:	NGL Water Solutions Permian
Address:	310 W Wall St Ste 500	Address:	865 N. Albino Street, Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Denver, CO 80220
Phone:	(432) 813-6823	Email:	Joseph.Vargo@nnglp.com

Work Order Comments	
Program: UST/ST ☐ PRP ☐ Rowfields ☐ IRC ☐ perfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters		Pras. Code	Sample Comments	
							TPH 8015M (GRO + DRO + MRO)	Chloride 300.0			
T-1 (0-1')	7/31/2024		X		G	1				None: NO DI Water: H ₂ O	
T-1 (1.5')	7/31/2024		X		G	1				Cool: Cool MeOH: Me	
T-1 (2')	7/31/2024		X		G	1				HCL: HC HNO ₃ : HN	
T-1 (3')	7/31/2024		X		G	1				H ₂ SO ₄ : H ₂ NaOH: Na	
T-1 (4')	7/31/2024		X		G	1				H ₃ PO ₄ : HP NaHSO ₄ : NABIS	
T-1 (5')	7/31/2024		X		G	1				Na ₂ S ₂ O ₃ : NaSO ₃	
T-1 (6')	7/31/2024		X		G	1				Zn Acetate+NaOH: Zn	
T-1 (7')	7/31/2024		X		G	1				NaOH+Ascorbic Acid: SAPC	
T-2 (0-1')	7/31/2024		X		G	1					
T-2 (1.5')	7/31/2024		X		G	1					

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Carla Moehring</i>	8-5-24	<i>[Signature]</i>	8-5-24 1410

Chain of Custody

Work Order No:

Page 2 of 3

Project Manager:	Connor Moehring	Bill to: (if different)	Joseph Vargo
Company Name:	Carmona Resources	Company Name:	NGL Water Solutions Permian
Address:	310 W Wall St Ste 500	Address:	865 N. Albino Street, Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Denver, CO 80220
Phone:	(432) 813-6823	Email:	Joseph.Vargo@nnglep.com

[illegible]

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH			
T-2 (2')	7/31/2024		X		G	1	X	X		
T-2 (3')	7/31/2024		X		G	1	X	X		
T-2 (4')	7/31/2024		X		G	1	X	X		
T-2 (5')	7/31/2024		X		G	1	X	X		
T-3 (0-1')	7/31/2024		X		G	1	X	X		
T-3 (1.5')	7/31/2024		X		G	1	X	X		
T-3 (2')	7/31/2024		X		G	1	X	X		
T-3 (3')	7/31/2024		X		G	1	X	X		
T-3 (4')	7/31/2024		X		G	1	X	X		
T-3 (5')	7/31/2024		X		G	1	X	X		

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

Relinquished by: (Signature)	Date/Time	Rec'd
Cashie M. Mody	8-5-24	

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

[illegible]

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

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Chain of Custody

Work Order No.:

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[illegible]

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-46869-1

SDG Number: Eddy County NM

Login Number: 46869

List Number: 1

List Source: Eurofins Midland

Creator: Kramer, Jessica

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/8/2024 5:13:35 PM

JOB DESCRIPTION

Big Eddy (10.09.23)
Eddy County NM

JOB NUMBER

880-46867-1

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 5:13:35 PM

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

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Laboratory Job ID: 880-46867-1
SDG: Eddy County NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Big Eddy (10.09.23)

Job ID: 880-46867-1

Job ID: 880-46867-1

Eurofins Midland

Job Narrative 880-46867-1

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 8/5/2024 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-46867-1), H-2 (0-0.5') (880-46867-2), H-3 (0-0.5') (880-46867-3), H-4 (0-0.5') (880-46867-4) and H-5 (0-0.5') (880-46867-5).

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 continuing calibration verification (CCV) associated with batch 880-87743 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 880-87743 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. The associated sample is impacted: (CCV 880-87743/21).

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

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

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

Lab Sample ID: 880-46867-1

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/06/24 12:45	08/07/24 16:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/06/24 12:45	08/07/24 16:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/06/24 12:45	08/07/24 16:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/06/24 12:45	08/07/24 16:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/06/24 12:45	08/07/24 16:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/06/24 12:45	08/07/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/06/24 12:45	08/07/24 16:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/06/24 12:45	08/07/24 16:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/07/24 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/07/24 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/05/24 15:24	08/07/24 19:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/05/24 15:24	08/07/24 19:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/05/24 15:24	08/07/24 19:04	1
Total TPH	<49.7	U	49.7		mg/Kg		08/05/24 15:24	08/07/24 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/05/24 15:24	08/07/24 19:04	1
o-Terphenyl	83		70 - 130				08/05/24 15:24	08/07/24 19:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		4.99		mg/Kg			08/08/24 09:28	1

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

Lab Sample ID: 880-46867-2

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:45	08/07/24 16:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:45	08/07/24 16:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:45	08/07/24 16:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 12:45	08/07/24 16:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:45	08/07/24 16:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 12:45	08/07/24 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/06/24 12:45	08/07/24 16:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/06/24 12:45	08/07/24 16:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Client Sample ID: H-2 (0-0.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46867-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/07/24 16:58	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7		mg/Kg			08/07/24 19:22	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/05/24 15:24	08/07/24 19:22	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/05/24 15:24	08/07/24 19:22	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/05/24 15:24	08/07/24 19:22	1	
Total TPH	<49.7	U	49.7		mg/Kg		08/05/24 15:24	08/07/24 19:22	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	94		70 - 130				08/05/24 15:24	08/07/24 19:22	1	
o-Terphenyl	85		70 - 130				08/05/24 15:24	08/07/24 19:22	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	237		4.97		mg/Kg			08/08/24 09:33	1	

Client Sample ID: H-3 (0-0.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46867-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:45	08/07/24 17:19	1	
Toluene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:45	08/07/24 17:19	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:45	08/07/24 17:19	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/06/24 12:45	08/07/24 17:19	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/06/24 12:45	08/07/24 17:19	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/06/24 12:45	08/07/24 17:19	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		70 - 130				08/06/24 12:45	08/07/24 17:19	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				08/06/24 12:45	08/07/24 17:19	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/07/24 17:19	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 19:40	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/05/24 15:24	08/07/24 19:40	1	

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

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

Lab Sample ID: 880-46867-3

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/24 15:24	08/07/24 19:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/24 15:24	08/07/24 19:40	1
Total TPH	<50.0	U	50.0		mg/Kg		08/05/24 15:24	08/07/24 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/05/24 15:24	08/07/24 19:40	1
o-Terphenyl	93		70 - 130	08/05/24 15:24	08/07/24 19:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		5.05		mg/Kg			08/08/24 09:38	1

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

Lab Sample ID: 880-46867-4

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:45	08/07/24 17:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:45	08/07/24 17:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:45	08/07/24 17:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/06/24 12:45	08/07/24 17:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:45	08/07/24 17:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/06/24 12:45	08/07/24 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/06/24 12:45	08/07/24 17:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/06/24 12:45	08/07/24 17:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/07/24 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/07/24 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/05/24 15:24	08/07/24 19:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/05/24 15:24	08/07/24 19:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/05/24 15:24	08/07/24 19:58	1
Total TPH	<49.9	U	49.9		mg/Kg		08/05/24 15:24	08/07/24 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	08/05/24 15:24	08/07/24 19:58	1
o-Terphenyl	80		70 - 130	08/05/24 15:24	08/07/24 19:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

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

Lab Sample ID: 880-46867-4

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		4.97		mg/Kg			08/08/24 09:44	1

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

Lab Sample ID: 880-46867-5

Date Collected: 07/31/24 00:00

Matrix: Solid

Date Received: 08/05/24 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/06/24 12:45	08/07/24 18:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/06/24 12:45	08/07/24 18:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/06/24 12:45	08/07/24 18:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/06/24 12:45	08/07/24 18:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/06/24 12:45	08/07/24 18:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/06/24 12:45	08/07/24 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/06/24 12:45	08/07/24 18:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/06/24 12:45	08/07/24 18:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/07/24 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/07/24 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/05/24 15:24	08/07/24 20:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/05/24 15:24	08/07/24 20:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/05/24 15:24	08/07/24 20:33	1
Total TPH	<49.8	U	49.8		mg/Kg		08/05/24 15:24	08/07/24 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	08/05/24 15:24	08/07/24 20:33	1
o-Terphenyl	96		70 - 130	08/05/24 15:24	08/07/24 20:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.96		mg/Kg			08/08/24 09:59	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-46867-1	H-1 (0-0.5')	106	100
880-46867-2	H-2 (0-0.5')	106	100
880-46867-3	H-3 (0-0.5')	106	100
880-46867-4	H-4 (0-0.5')	108	100
880-46867-5	H-5 (0-0.5')	107	100
880-46870-A-21-B MS	Matrix Spike	104	99
880-46870-A-21-C MSD	Matrix Spike Duplicate	103	98
LCS 880-87641/1-A	Lab Control Sample	102	99
LCSD 880-87641/2-A	Lab Control Sample Dup	101	98
MB 880-87641/5-A	Method Blank	100	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-46865-A-2-B MS	Matrix Spike	98	91
880-46865-A-2-C MSD	Matrix Spike Duplicate	97	91
880-46867-1	H-1 (0-0.5')	94	83
880-46867-2	H-2 (0-0.5')	94	85
880-46867-3	H-3 (0-0.5')	104	93
880-46867-4	H-4 (0-0.5')	90	80
880-46867-5	H-5 (0-0.5')	109	96
LCS 880-87564/2-A	Lab Control Sample	96	91
LCSD 880-87564/3-A	Lab Control Sample Dup	96	89
MB 880-87564/1-A	Method Blank	98	87
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87641/5-A
Matrix: Solid
Analysis Batch: 87706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:45	08/07/24 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:45	08/07/24 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:45	08/07/24 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/06/24 12:45	08/07/24 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/06/24 12:45	08/07/24 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/06/24 12:45	08/07/24 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/06/24 12:45	08/07/24 11:11	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/06/24 12:45	08/07/24 11:11	1

Lab Sample ID: LCS 880-87641/1-A
Matrix: Solid
Analysis Batch: 87706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09973		mg/Kg		100	70 - 130
Toluene	0.100	0.1035		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2131		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1055		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-87641/2-A
Matrix: Solid
Analysis Batch: 87706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87641

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09555		mg/Kg		96	70 - 130	4	35
Toluene	0.100	0.09936		mg/Kg		99	70 - 130	4	35
Ethylbenzene	0.100	0.09975		mg/Kg		100	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2048		mg/Kg		102	70 - 130	4	35
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-46870-A-21-B MS
Matrix: Solid
Analysis Batch: 87706

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.09363		mg/Kg		94	70 - 130
Toluene	<0.00201	U	0.0998	0.09738		mg/Kg		98	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

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

Lab Sample ID: 880-46870-A-21-B MS
Matrix: Solid
Analysis Batch: 87706

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.09815		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2010		mg/Kg		101	70 - 130
o-Xylene	<0.00201	U	0.0998	0.09994		mg/Kg		100	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 880-46870-A-21-C MSD
Matrix: Solid
Analysis Batch: 87706

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09652		mg/Kg		96	70 - 130	3	35
Toluene	<0.00201	U	0.100	0.1011		mg/Kg		101	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.100	0.1021		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2092		mg/Kg		104	70 - 130	4	35
o-Xylene	<0.00201	U	0.100	0.1037		mg/Kg		103	70 - 130	4	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

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

Lab Sample ID: MB 880-87564/1-A
Matrix: Solid
Analysis Batch: 87743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/05/24 15:24	08/07/24 11:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/24 15:24	08/07/24 11:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/24 15:24	08/07/24 11:55	1
Total TPH	<50.0	U	50.0		mg/Kg		08/05/24 15:24	08/07/24 11:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	87		70 - 130						

Lab Sample ID: LCS 880-87564/2-A
Matrix: Solid
Analysis Batch: 87743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1021		mg/Kg		102	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-87564/2-A

Matrix: Solid

Analysis Batch: 87743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	905.4		mg/Kg		91	70 - 130
	LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
o-Terphenyl	91		70 - 130				

Lab Sample ID: LCSD 880-87564/3-A

Matrix: Solid

Analysis Batch: 87743

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1033		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	878.8		mg/Kg		88	70 - 130	3	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	96		70 - 130						
o-Terphenyl	89		70 - 130						

Lab Sample ID: 880-46865-A-2-B MS

Matrix: Solid

Analysis Batch: 87743

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	991.5		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	899.2		mg/Kg		90	70 - 130
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	91		70 - 130						

Lab Sample ID: 880-46865-A-2-C MSD

Matrix: Solid

Analysis Batch: 87743

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	992.5		mg/Kg		99	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	880.6		mg/Kg		88	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	91		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87676/1-A

Matrix: Solid

Analysis Batch: 87720

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/08/24 08:15	1

Lab Sample ID: LCS 880-87676/2-A

Matrix: Solid

Analysis Batch: 87720

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	228.1		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-87676/3-A

Matrix: Solid

Analysis Batch: 87720

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	229.7		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 880-46867-4 MS

Matrix: Solid

Analysis Batch: 87720

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	159		249	397.7		mg/Kg		96	90 - 110

Lab Sample ID: 880-46867-4 MSD

Matrix: Solid

Analysis Batch: 87720

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	159		249	399.8		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

GC VOA

Prep Batch: 87641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-46867-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-46867-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-46867-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-46867-5	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-87641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46870-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
880-46870-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-1	H-1 (0-0.5')	Total/NA	Solid	8021B	87641
880-46867-2	H-2 (0-0.5')	Total/NA	Solid	8021B	87641
880-46867-3	H-3 (0-0.5')	Total/NA	Solid	8021B	87641
880-46867-4	H-4 (0-0.5')	Total/NA	Solid	8021B	87641
880-46867-5	H-5 (0-0.5')	Total/NA	Solid	8021B	87641
MB 880-87641/5-A	Method Blank	Total/NA	Solid	8021B	87641
LCS 880-87641/1-A	Lab Control Sample	Total/NA	Solid	8021B	87641
LCSD 880-87641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87641
880-46870-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	87641
880-46870-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87641

Analysis Batch: 87903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46867-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46867-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46867-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46867-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46867-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46867-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46867-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46867-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-87564/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87564/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87564/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46865-A-2-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46865-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	87564
880-46867-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	87564

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QC Association Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 87743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	87564
880-46867-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	87564
880-46867-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	87564
MB 880-87564/1-A	Method Blank	Total/NA	Solid	8015B NM	87564
LCS 880-87564/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87564
LCSD 880-87564/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87564
880-46865-A-2-B MS	Matrix Spike	Total/NA	Solid	8015B NM	87564
880-46865-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87564

Analysis Batch: 87854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-46867-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-46867-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-46867-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-46867-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-46867-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-46867-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-46867-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-46867-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-87676/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87676/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87676/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46867-4 MS	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-46867-4 MSD	H-4 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 87720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46867-1	H-1 (0-0.5')	Soluble	Solid	300.0	87676
880-46867-2	H-2 (0-0.5')	Soluble	Solid	300.0	87676
880-46867-3	H-3 (0-0.5')	Soluble	Solid	300.0	87676
880-46867-4	H-4 (0-0.5')	Soluble	Solid	300.0	87676
880-46867-5	H-5 (0-0.5')	Soluble	Solid	300.0	87676
MB 880-87676/1-A	Method Blank	Soluble	Solid	300.0	87676
LCS 880-87676/2-A	Lab Control Sample	Soluble	Solid	300.0	87676
LCSD 880-87676/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87676
880-46867-4 MS	H-4 (0-0.5')	Soluble	Solid	300.0	87676
880-46867-4 MSD	H-4 (0-0.5')	Soluble	Solid	300.0	87676

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Client Sample ID: H-1 (0-0.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46867-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87641	08/06/24 12:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87706	08/07/24 16:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87903	08/07/24 16:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			87854	08/07/24 19:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87564	08/05/24 15:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/07/24 19:04	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 09:28	CH	EET MID

Client Sample ID: H-2 (0-0.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46867-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87641	08/06/24 12:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87706	08/07/24 16:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87903	08/07/24 16:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			87854	08/07/24 19:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87564	08/05/24 15:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/07/24 19:22	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 09:33	CH	EET MID

Client Sample ID: H-3 (0-0.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46867-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87641	08/06/24 12:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87706	08/07/24 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87903	08/07/24 17:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			87854	08/07/24 19:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87564	08/05/24 15:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/07/24 19:40	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 09:38	CH	EET MID

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46867-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87641	08/06/24 12:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87706	08/07/24 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87903	08/07/24 17:40	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46867-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87854	08/07/24 19:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87564	08/05/24 15:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/07/24 19:58	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 09:44	CH	EET MID

Client Sample ID: H-5 (0-0.5')
Date Collected: 07/31/24 00:00
Date Received: 08/05/24 14:10

Lab Sample ID: 880-46867-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87641	08/06/24 12:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87706	08/07/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87903	08/07/24 18:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			87854	08/07/24 20:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87564	08/05/24 15:24	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87743	08/07/24 20:33	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87676	08/06/24 15:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87720	08/08/24 09:59	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: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Big Eddy (10.09.23)

Job ID: 880-46867-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46867-1	H-1 (0-0.5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46867-2	H-2 (0-0.5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46867-3	H-3 (0-0.5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46867-4	H-4 (0-0.5')	Solid	07/31/24 00:00	08/05/24 14:10
880-46867-5	H-5 (0-0.5')	Solid	07/31/24 00:00	08/05/24 14:10

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

Chain of Custody



880-46867 Chain of Custody

Page 1 of 1

Project Manager:	Connor Moehring	Bill to: (if different)	Joseph Vargo
Company Name:	Carmona Resources	Company Name:	NGL Water Solutions Permian
Address:	310 W Wall St Ste 500	Address:	865 N. Albino Street, Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Denver, CO 80220
Phone:	(432) 813-6823	Email:	Joseph.Vargo@nnglep.com

[illegible][illegible]

Work Order Comments

Program: ☐UST/PST ☐PRP ☐brownfields ☐RC ☐perfund

State of Project:

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

Deliverables: EDD ☐ ADAPT ☐ Other:

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Code Mending	8-5-24		8/5/24

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-46867-1

SDG Number: Eddy County NM

Login Number: 46867

List Number: 1

List Source: Eurofins Midland

Creator: Kramer, Jessica

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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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 382961

QUESTIONS

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 382961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2328249207
Incident Name	NAPP2328249207 BIG EDDY SWD @ 30-015-05819
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-05819] BIG EDDY SWD #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BIG EDDY SWD
Date Release Discovered	10/06/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 25 BBL Recovered: 20 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 382961

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID:
	372338
	Action Number:
	382961
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Joseph Vargo Title: Regulatory manager Email: joseph.vargo@nglep.com Date: 09/12/2024
--	--

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QUESTIONS, Page 3

Action 382961

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 382961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 51 and 75 (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 and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
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	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	8290
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	6530
GRO+DRO	(EPA SW-846 Method 8015M)	6530
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/11/2024
On what date will (or did) the final sampling or liner inspection occur	12/11/2024
On what date will (or was) the remediation complete(d)	03/11/2025
What is the estimated surface area (in square feet) that will be reclaimed	36450
What is the estimated volume (in cubic yards) that will be reclaimed	225
What is the estimated surface area (in square feet) that will be remediated	36450
What is the estimated volume (in cubic yards) that will be remediated	225

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 382961

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID:	372338
	Action Number:	382961
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
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	Yes
What is the name of the NMED facility	Northern Delaware Disposal
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Joseph Vargo Title: Regulatory manager Email: joseph.vargo@nglep.com Date: 09/12/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

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

QUESTIONS, Page 5

Action 382961

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 382961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 382961

QUESTIONS (continued)

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 382961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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CONDITIONS

Action 382961

CONDITIONS

Operator: NGL WATER SOLUTIONS PERMIAN, LLC 865 North Albion Street Denver, CO 80220	OGRID: 372338
	Action Number: 382961
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. The largest variance confirmation floor sample size that the OCD can currently grant is 400 ft2. The variance is approved for 400 ft2 floor confirmation samples. The release area will still need confirmation sidewall samples representing no more than 200 ft2. Please include this e-mail correspondence in the Remediation Closure Report. The work will need to occur in 90 days after the report has been reviewed.	10/2/2024