



SITE INFORMATION

Closure Report

Populus Federal 003H (06.13.24)

Eddy County, New Mexico

Incident ID: NAPP2417752286

Unit O Sec 20 T25S R27E

32.108840°, -104.214054°

Crude Oil Release

Point of Release: Flare Fire

Release Date: 06.13.24

Volume Released: 0.72 barrels of Crude Oil

Volume Recovered: 0 barrels of Crude Oil

CARMONA RESOURCES



Prepared for:

Concho Operating, LLC

15 West London Road,

Loving, New Mexico 88256

Prepared by:

Carmona Resources, LLC

310 West Wall Street

Suite 500

Midland, Texas 79701

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1	OVERVIEW	FIGURE 2	TOPOGRAPHIC
FIGURE 3	SAMPLE LOCATION	FIGURE 4	EXCAVATION

APPENDICES

APPENDIX A	TABLES
APPENDIX B	PHOTOS
APPENDIX C	N.O.R. AND FINAL C-141/NMOCD CORRESPONDENCE
APPENDIX D	SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E	LABORATORY REPORTS



September 5, 2024

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

Re: Closure Report
Populus Federal 003H (06.13.24)
Concho Operating, LLC
Incident ID: NAPP2417752286
Site Location: Unit O, S20, T25S, R27E
(Lat 32.108840°, Long -104.214054°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Populus Federal 003H (06.13.24). The site is located at 32.108840°, -104.214054° within Unit O, S20, T25S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered due to a flare fire on June 13, 2024. This released zero point seven-two (0.72) barrels of crude oil, and zero (0) barrels of crude oil were recovered. Refer to Figure 3. The Notice of Release form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water source within a 0.50-mile radius of the location exists. The nearest identified well is located approximately 0.81 miles north of the site in S20, T25S, R27E and was drilled in 2018. The well has a reported depth to groundwater of 19.67' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On July 29, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and six (6) horizontal sample points (H-1 through H-6) were installed to total depths ranging from surface to 4' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the sample locations. For



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

5.0 Remediation Activities

Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on August 12, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the sampling notification. A total of eight (8) confirmation floor samples were collected (CS-1 through CS-8), and seven (7) sidewall samples (SW-1 through SW-7) were collected every 200 square feet to ensure the proper removal of the contaminated material. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. The analytical results are in Table 2.

Once the remediation activities were completed, the excavated area was backfilled with clean material to surface grade. The backfill sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix E.

Approximately 120 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Mike Carmona
Environmental Manager

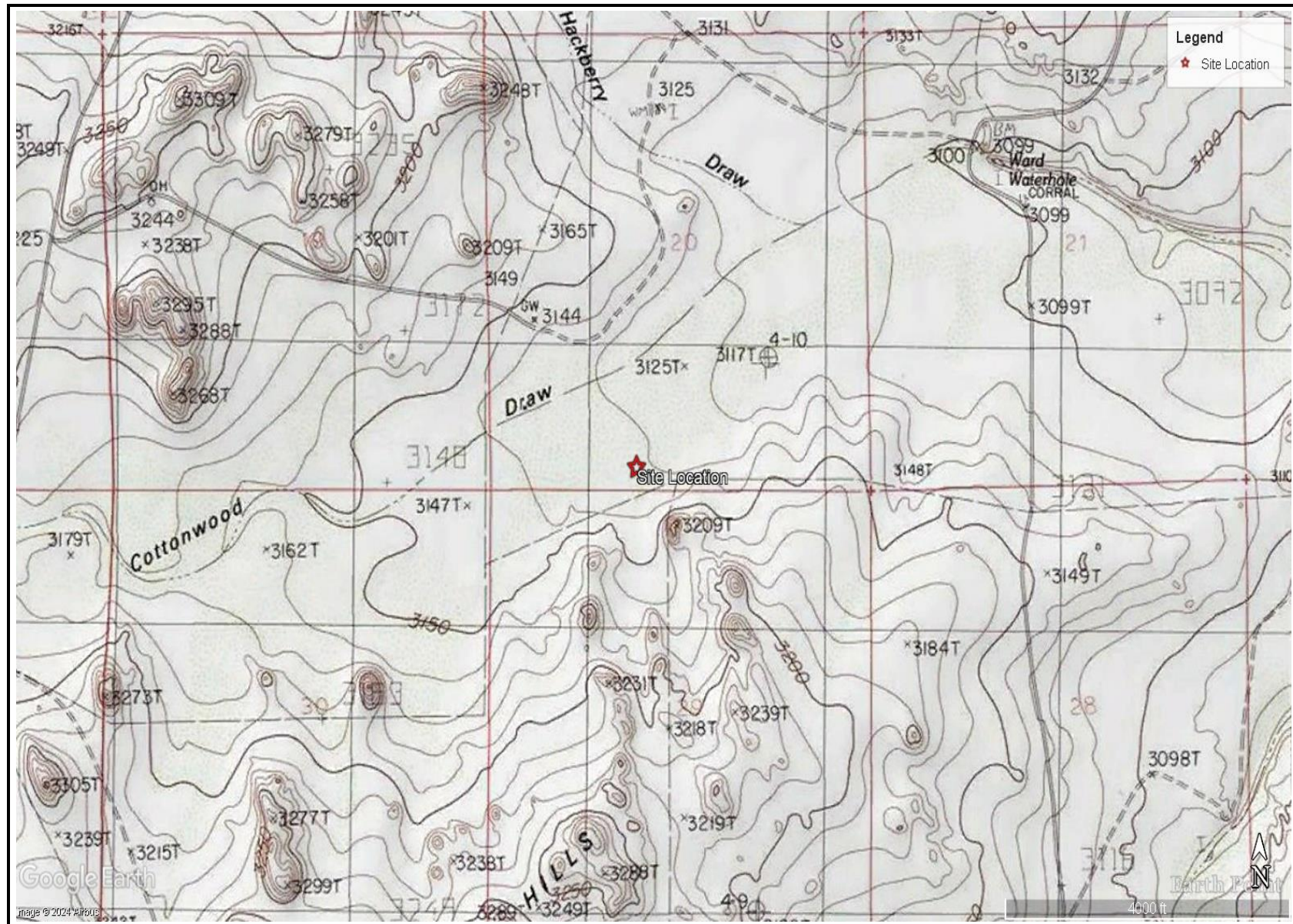
Devin Dominguez
Sr. Project Manager

FIGURES

CARMONA RESOURCES



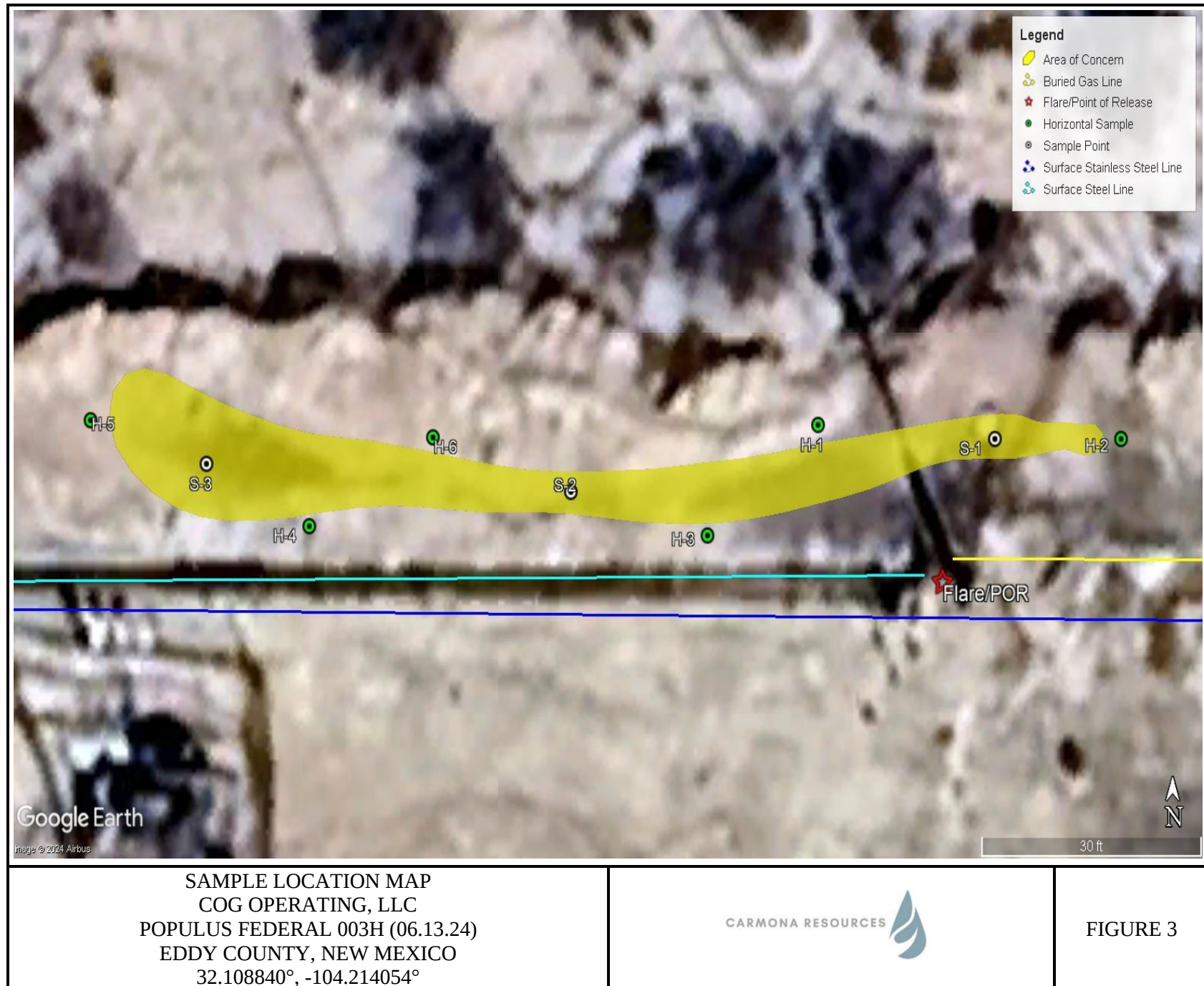


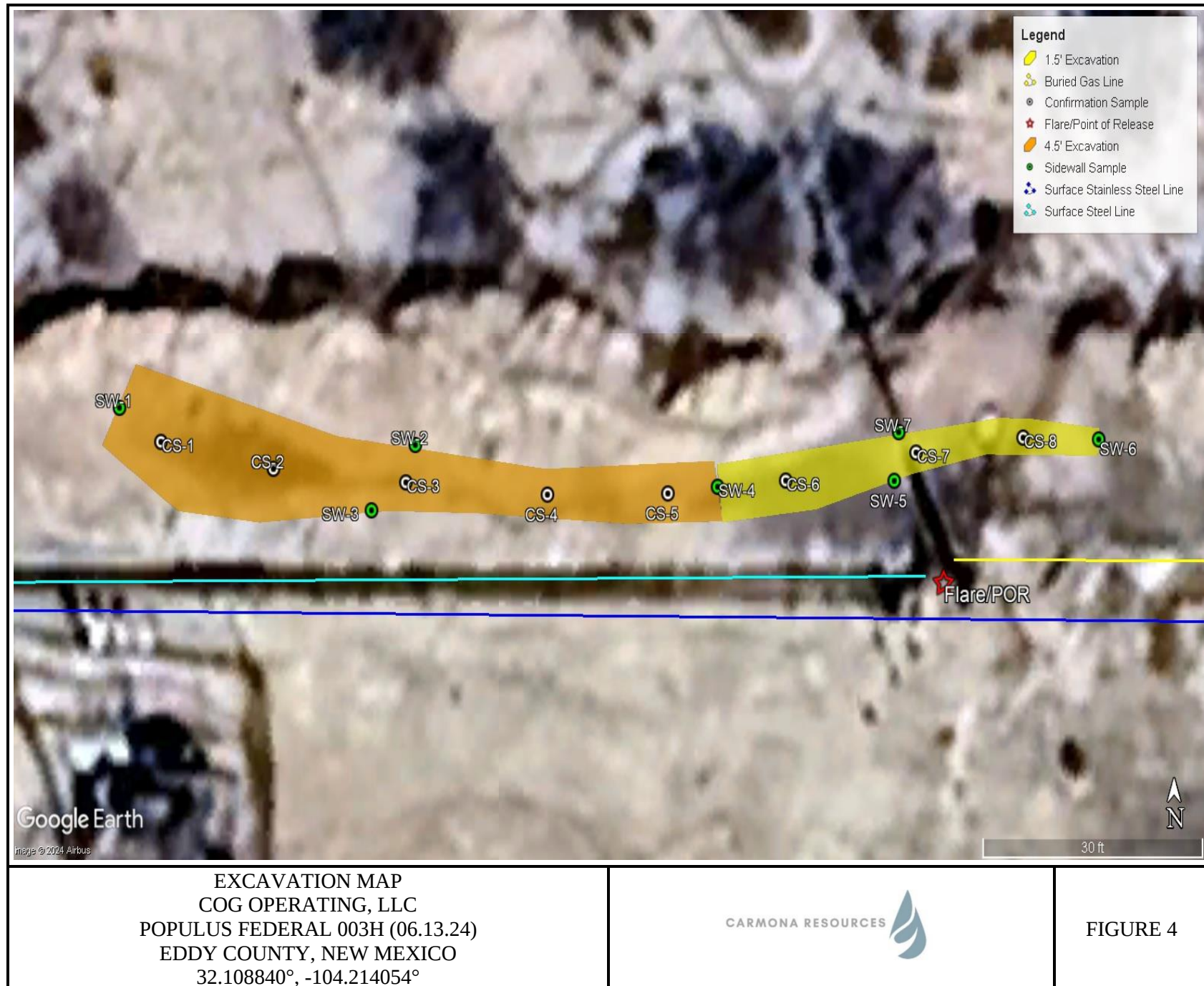


TOPOGRAPHIC MAP
 COG OPERATING, LLC
 POPULUS FEDERAL 003H (06.13.24)
 EDDY COUNTY, NEW MEXICO
 32.108840°, -104.214054°



FIGURE 2





APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating
Populus Federal 003H (06.13.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	7/29/2024	0-0.1	<49.8	323	<49.8	323	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,090
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	47.1
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	59.5
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.2
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	153
S-2	7/29/2024	0-0.1	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	3,940
	"	1.5	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	298
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,500
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	3,250
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,170
S-3	7/29/2024	0-0.1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,320
	"	1.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	61.6
	"	2.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	121
	"	3.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	2,420
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,000
H-1	7/29/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	28.8
H-2	7/29/2024	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	43.6
H-3	7/29/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	45.4
H-4	7/29/2024	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	31.4
H-5	7/29/2024	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.04
H-6	7/29/2024	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	6.41
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

(H) Horizontal Sample

 Removed

Table 2
COG Operating
Populus Federal 003H (06.13.24)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	8/15/2024	4.5'	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.05
CS-2	8/15/2024	4.5'	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	25.4
CS-3	8/15/2024	4.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<4.98
CS-4	8/15/2024	4.5'	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<4.98
CS-5	8/15/2024	4.5'	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<5.02
CS-6	8/15/2024	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.22
CS-7	8/15/2024	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.01
CS-8	8/15/2024	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.02
SW-1	8/15/2024	4.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.1
SW-2	8/15/2024	4.5'	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<5.00
SW-3	8/15/2024	4.5'	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<5.05
SW-4	8/15/2024	3.0'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.98
SW-5	8/15/2024	1.5'	<49.5	<49.5	<49.5	<49.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	27.7
SW-6	8/15/2024	1.5'	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.05
SW-7	8/15/2024	1.5'	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.96
Backfill Sample	8/19/2024	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	312
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

COG Operating, LLC

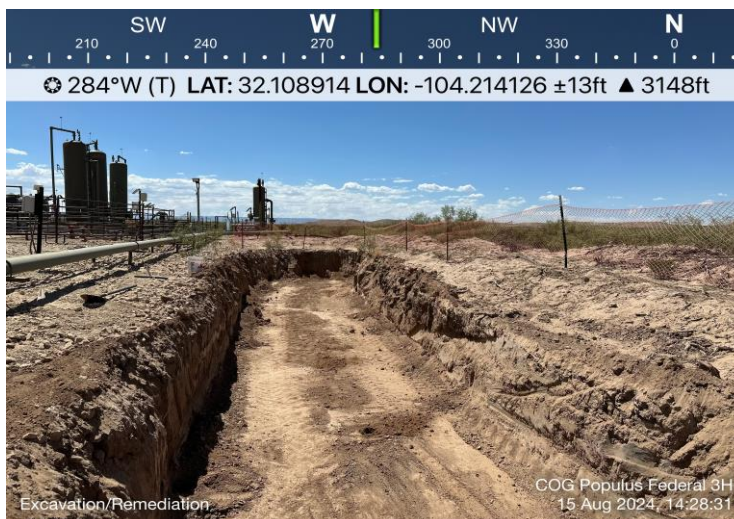
Photograph No. 1

Facility: Populus Federal 003H (06.13.24)

County: Eddy County, New Mexico

Description:

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



Photograph No. 2

Facility: Populus Federal 003H (06.13.24)

County: Eddy County, New Mexico

Description:

View East, area of CS-6 through CS-8.



Photograph No. 3

Facility: Populus Federal 003H (06.13.24)

County: Eddy County, New Mexico

Description:

View Northwest, backfilled excavation.



APPENDIX C

CARMONA RESOURCES



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

Action 357462

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 357462
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Populus Federal 003H
Date Release Discovered	06/13/2024
Surface Owner	Federal

Incident Details <i>Please answer all the questions in this group.</i>	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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 <i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Fire Other (Specify) Crude Oil Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 357462

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 357462
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More volume information must be supplied to determine if this will be treated as 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: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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	Not answered.
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	Not answered.
All free liquids and recoverable materials have been removed and managed appropriately	Not answered.
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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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ACKNOWLEDGMENTS

Action 357462

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 357462
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☒	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☒	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.
☒	I acknowledge the fact that 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.
☒	I acknowledge the fact that, 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.

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Santa Fe, NM 87505

CONDITIONS

Action 357462

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 357462
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
brittanyesparza	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	6/25/2024

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Santa Fe, NM 87505

QUESTIONS

Action 372855

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 372855
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417752286
Incident Name	NAPP2417752286 POPULUS FEDERAL 003H @ 0
Incident Type	Fire
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2203845594] Populus Fed 3H - Battery

Location of Release Source	
Site Name	Populus Federal 003H
Date Release Discovered	06/13/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/14/2024
Time sampling will commence	02:30 PM
Please provide any information necessary for observers to contact samplers	Conner Moerhring (432) 813- 6823
Please provide any information necessary for navigation to sampling site	coordinates on C-141

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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 372855

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 372855
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/12/2024

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Jacqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX D

CARMONA RESOURCES



High Karst

COG Operating

Legend

 High

 Populus Federal 003H (06.13.2024)

Populus Federal 003H (06.13.2024)



Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 0.81 Miles
- 1.65 Miles
- 1.89 Miles
- NMSEO Water Well
- Populus Federal 003H (06.13.2024)
- USGS Water Well





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		Q Q Q							X	Y	Distance	Depth Well	Depth Water	Water Column	
	Sub-Code	basin	County	64	16	4	Sec	Tws	Rng							
C 03261 POD1	CUB	ED	3	2	1	20	25S	27E	574007	3554006*		1367	351			
C 04078 POD1	CUB	ED	3	4	1	33	25S	27E	575667	3550363		2646	157	20	137	
C 04079 POD1	CUB	ED	1	2	3	33	25S	27E	575658	3550092		2885	226	20	206	
C 02221	CUB	ED	4	3	2	25	25S	26E	571412	3551961*		3127	35			
C 01013	C	ED				4	25	25S	26E	571505	3551456*		3199	245		
C 02588	C	ED	3	4	3	33	25S	27E	575645	3549575*		3357	81	19	62	
C 03262 POD1	CUB	ED	2	1	2	22	25S	27E	577837	3554244*		3719	75			
C 03654 POD1	CUB	ED	2	3	1	24	25S	26E	570654	3553773		3939				

Average Depth to Water: **19 feet**

Minimum Depth: **19 feet**

Maximum Depth: **20 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 574448

Northing (Y): 3552712

Radius: 4000

*UTM location was derived from PLSS - see Help

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7/11/24 7:25 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

Click to hide state-specific text

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320711104122701

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

USGS 320711104122701 25S.27E.20.21344

Eddy County, New Mexico
Latitude 32°07'12.5", Longitude 104°12'45.6" NAD83
Land-surface elevation 3,125.10 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1983-02-02			D 62610		3106.22	NGVD29	1	Z		
1983-02-02			D 62611		3107.86	NAVD88	1	Z		
1983-02-02			D 72019	18.88			1	Z		
1987-10-09			D 62610		3109.96	NGVD29	1	Z		
1987-10-09			D 62611		3111.60	NAVD88	1	Z		
1987-10-09			D 72019	15.14			1	Z		
1992-11-20			D 62610		3106.49	NGVD29	1	S		
1992-11-20			D 62611		3108.13	NAVD88	1	S		
1992-11-20			D 72019	18.61			1	S		
1998-01-07			D 62610		3104.23	NGVD29	1	S		
1998-01-07			D 62611		3105.87	NAVD88	1	S		
1998-01-07			D 72019	20.87			1	S		
2003-01-29			D 62610		3102.27	NGVD29	1	S		USGS
2003-01-29			D 62611		3103.91	NAVD88	1	S		USGS
2003-01-29			D 72019	22.83			1	S		USGS
2013-01-09	23:30 UTC	m	62610		3101.48	NGVD29	1	S		USGS

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
2013-01-09	23:30 UTC		m	62611	3103.12	NAVD88	1		S	USGS
2013-01-09	23:30 UTC		m	72019	23.62		1		S	USGS
2018-01-09	23:24 UTC		m	62610	3105.43	NGVD29	1		V	USGS
2018-01-09	23:24 UTC		m	62611	3107.07	NAVD88	1		V	USGS
2018-01-09	23:24 UTC		m	72019	19.67		1		V	USGS

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320711104122701&agency_cd=USGS&format=html



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Page Last Modified: 2024-07-11 09:26:53 EDT
0.25 0.23 nadww02



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
NA	C 04078 POD1	3	4	1	33	25S	27E	575667	3550363		
Driller License:		1690		Driller Company:			VISION RESOURCES, INC				
Driller Name:		JASON MALEY									
Drill Start Date:		05/23/2018		Drill Finish Date:			05/24/2018		Plug Date:		
Log File Date:		06/25/2018		PCW Rcv Date:			Source:			Shallow	
Pump Type:					Pipe Discharge Size:			Estimated Yield:			90 GPM
Casing Size:		6.00		Depth Well:			157 feet		Depth Water:		20 feet
Water Bearing Stratifications:				Top	Bottom	Description					
				0	35	Shale/Mudstone/Siltstone					
				35	85	Sandstone/Gravel/Conglomerate					
				85	110	Sandstone/Gravel/Conglomerate					
				110	150	Sandstone/Gravel/Conglomerate					
Casing Perforations:				Top	Bottom						
				38	157						

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POINT OF DIVERSION SUMMARY

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

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320616104142801

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

USGS 320616104142801 25S.26E.25.23231

Eddy County, New Mexico
Latitude 32°06'12.6", Longitude 104°14'33.9" NAD83
Land-surface elevation 3,188.60 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1978-01-25			D 62610		3184.39	NGVD29	1		Z	
1978-01-25			D 62611		3186.05	NAVD88	1		Z	
1978-01-25			D 72019	4.21			1		Z	
1983-02-01			D 62610		3185.96	NGVD29	1		Z	
1983-02-01			D 62611		3187.62	NAVD88	1		Z	
1983-02-01			D 72019	2.64			1		Z	
1987-10-08			D 62610		3185.63	NGVD29	1		Z	
1987-10-08			D 62611		3187.29	NAVD88	1		Z	
1987-10-08			D 72019	2.97			1		Z	
1992-11-04			D 62610		3186.55	NGVD29	1		S	
1992-11-04			D 62611		3188.21	NAVD88	1		S	
1992-11-04			D 72019	2.05			1		S	
1998-01-07			D 62610		3186.62	NGVD29	1		S	
1998-01-07			D 62611		3188.28	NAVD88	1		S	
1998-01-07			D 72019	1.98			1		S	
2003-01-28			D 62610		3181.38	NGVD29	1		S	USGS

Date	Time	?	?	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	?
		Water-level date-time accuracy	Parameter code				S
2003-01-28	D	62611	3183.04	NAVD88	1	S	USGS
2003-01-28	D	72019	7.22		1	S	USGS
2013-01-09 22:45 UTC	m	62610	3177.78	NGVD29	1	S	USGS
2013-01-09 22:45 UTC	m	62611	3179.44	NAVD88	1	S	USGS
2013-01-09 22:45 UTC	m	72019	10.82		1	S	USGS
2018-02-13 22:15 UTC	m	62610	3174.64	NGVD29	1	S	USGS
2018-02-13 22:15 UTC	m	62611	3176.30	NAVD88	1	S	USGS
2018-02-13 22:15 UTC	m	72019	13.96		1	S	USGS

Explanation

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

Questions or Comments

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0.24 0.22 nadww01

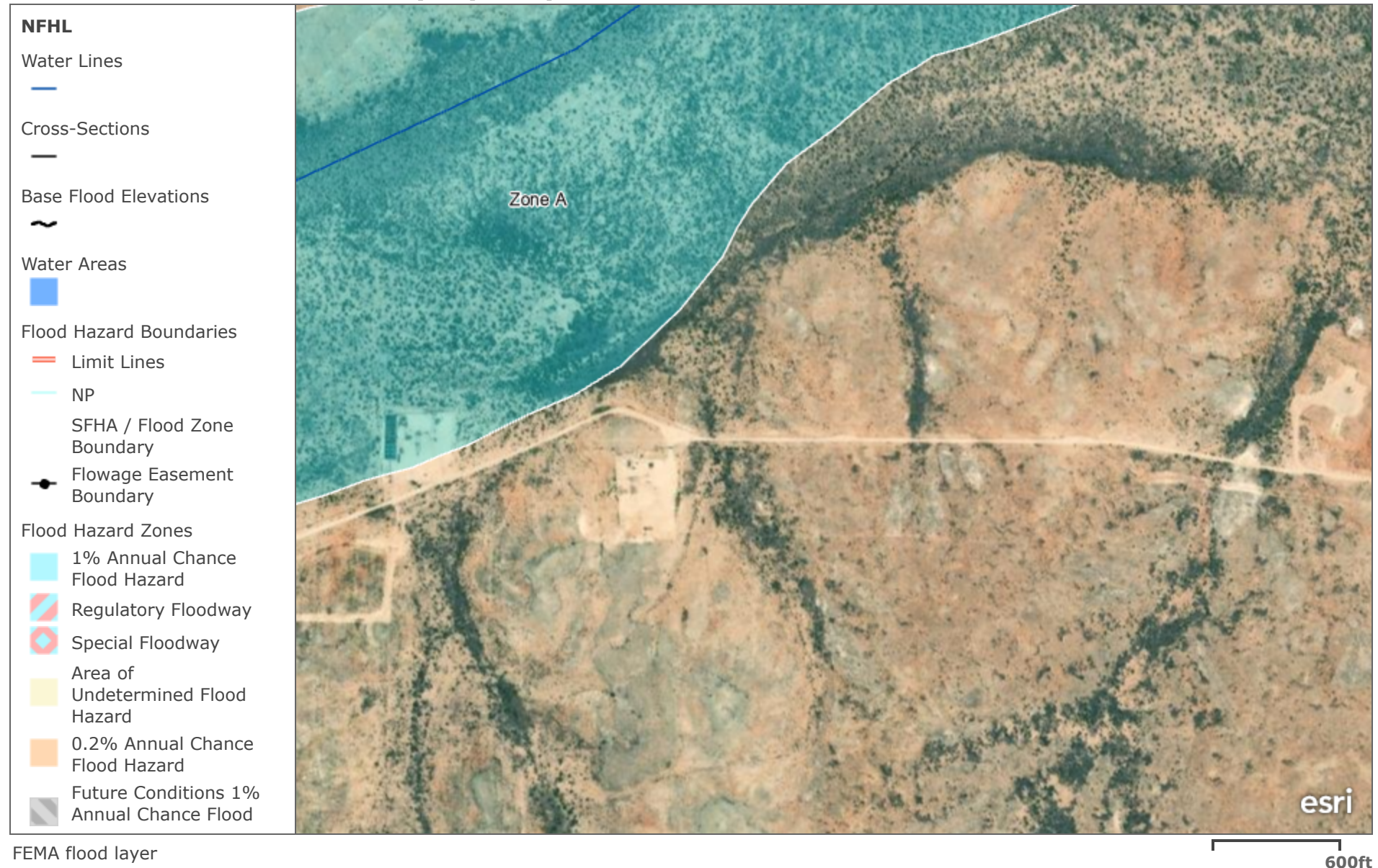
FEMA National Flood Hazard Layer (NFHL)



FEMA flood layer

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

FEMA National Flood Hazard Layer (NFHL)



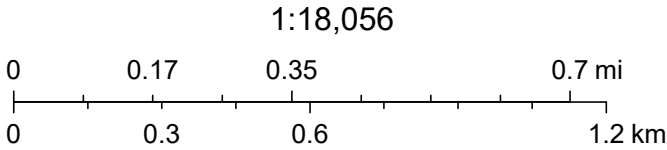
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Populus Federal 003H (06.13.2024)



7/11/2024, 8:21:58 AM

- OSW Water Bodys
- OSE Streams



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APPENDIX E

CARMONA RESOURCES





Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Populus Fed (6.13.24)
Eddy County, New Mexico

JOB NUMBER

880-46656-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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8/2/2024 3:58:59 PM

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

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Laboratory Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	19
QC Sample Results	21
QC Association Summary	29
Lab Chronicle	34
Certification Summary	39
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receipt Checklists	44

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Populus Fed (6.13.24)

Job ID: 880-46656-1

Job ID: 880-46656-1**Eurofins Midland**

Job Narrative
880-46656-1

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 7/30/2024 2:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-46656-1), S-1 (1.5') (880-46656-2), S-1 (2') (880-46656-3), S-1 (3') (880-46656-4), S-1 (4') (880-46656-5), S-2 (0-1') (880-46656-6), S-2 (1.5') (880-46656-7), S-2 (2') (880-46656-8), S-2 (3') (880-46656-9), S-2 (4') (880-46656-10), S-3 (0-1') (880-46656-11), S-3 (1.5') (880-46656-12), S-3 (2') (880-46656-13), S-3 (3') (880-46656-14) and S-3 (4') (880-46656-15).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-87019 and 880-87077 and analytical batch 880-86999 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (1.5') (880-46656-2), S-1 (2') (880-46656-3), S-1 (3') (880-46656-4), S-1 (4') (880-46656-5), S-2 (0-1') (880-46656-6), S-2 (1.5') (880-46656-7), S-2 (2') (880-46656-8), S-2 (3') (880-46656-9), S-2 (4') (880-46656-10), S-3 (1.5') (880-46656-12), S-3 (2') (880-46656-13), S-3 (3') (880-46656-14) and S-3 (4') (880-46656-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87077 and analytical batch 880-86999 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87078 and analytical batch 880-87131 was outside the control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-87078 and analytical batch 880-87131 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 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-2 (3') (880-46656-9). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-46656-A-9-C MS) and (880-46656-A-9-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87038 and analytical batch 880-87137 was outside the upper control limits.

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project: Populus Fed (6.13.24)

Job ID: 880-46656-1

Job ID: 880-46656-1 (Continued)

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Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87137 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10, Diesel Range Organics (Over C10-C28) and 1-Chlorooctane. 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 880-87137 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 880-87137/21).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-46579-A-1-E), (880-46579-A-1-T MS) and (880-46579-A-1-U MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-1 (0-1') (880-46656-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87079 and analytical batch 880-87084 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.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-1
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		07/30/24 14:55	07/31/24 00:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 14:55	07/31/24 00:31	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		07/30/24 14:55	07/31/24 00:31	1
m-Xylene & p-Xylene	<0.00404	U F1	0.00404		mg/Kg		07/30/24 14:55	07/31/24 00:31	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		07/30/24 14:55	07/31/24 00:31	1
Xylenes, Total	<0.00404	U F1	0.00404		mg/Kg		07/30/24 14:55	07/31/24 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				07/30/24 14:55	07/31/24 00:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 14:55	07/31/24 00:31	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			07/31/24 00:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	323		49.8		mg/Kg			08/02/24 13:38	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	<49.8	U	49.8		mg/Kg		08/01/24 07:20	08/02/24 13:38	1
Diesel Range Organics (Over C10-C28)	323		49.8		mg/Kg		08/01/24 07:20	08/02/24 13:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/01/24 07:20	08/02/24 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				08/01/24 07:20	08/02/24 13:38	1
o-Terphenyl	142	S1+	70 - 130				08/01/24 07:20	08/02/24 13:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		5.03		mg/Kg			07/31/24 09:44	1

Client Sample ID: S-1 (1.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-2
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		07/30/24 14:55	07/31/24 00:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 00:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 00:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 14:55	07/31/24 00:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 00:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 14:55	07/31/24 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				07/30/24 14:55	07/31/24 00:52	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/30/24 14:55	07/31/24 00:52	1

Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-46656-2

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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			07/31/24 00:52	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			07/31/24 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 22:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 22:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				07/30/24 11:03	07/31/24 22:29	1
o-Terphenyl	80		70 - 130				07/30/24 11:03	07/31/24 22:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.1		5.02		mg/Kg			07/31/24 09:52	1

Client Sample ID: S-1 (2')

Lab Sample ID: 880-46656-3

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 01:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 01:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 01:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 14:55	07/31/24 01:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 01:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 14:55	07/31/24 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				07/30/24 14:55	07/31/24 01:12	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/30/24 14:55	07/31/24 01:12	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			07/31/24 01:12	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			07/31/24 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 11:03	07/31/24 22:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 11:03	07/31/24 22:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (2')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 11:03	07/31/24 22:45	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	91		70 - 130				07/30/24 11:03	07/31/24 22:45	1	
o-Terphenyl	82		70 - 130				07/30/24 11:03	07/31/24 22:45	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	59.5		4.98		mg/Kg			07/31/24 10:00	1	

Client Sample ID: S-1 (3')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-4
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		07/30/24 14:55	07/31/24 01:33	1	
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 01:33	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 01:33	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 14:55	07/31/24 01:33	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 01:33	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 14:55	07/31/24 01:33	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130				07/30/24 14:55	07/31/24 01:33	1	
1,4-Difluorobenzene (Surr)	99		70 - 130				07/30/24 14:55	07/31/24 01:33	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			07/31/24 01:33	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		mg/Kg			07/31/24 23:03	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/30/24 11:03	07/31/24 23:03	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/30/24 11:03	07/31/24 23:03	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 11:03	07/31/24 23:03	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	84		70 - 130				07/30/24 11:03	07/31/24 23:03	1	
o-Terphenyl	75		70 - 130				07/30/24 11:03	07/31/24 23:03	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	18.2		4.97		mg/Kg			07/31/24 04:42	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (4')

Lab Sample ID: 880-46656-5

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 01:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 01:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 01:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 14:55	07/31/24 01:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 01:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 14:55	07/31/24 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130	07/30/24 14:55	07/31/24 01:53	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/24 14:55	07/31/24 01:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/31/24 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/31/24 23:18	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	<49.9	U	49.9		mg/Kg		07/30/24 11:03	07/31/24 23:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/30/24 11:03	07/31/24 23:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 11:03	07/31/24 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	07/30/24 11:03	07/31/24 23:18	1
o-Terphenyl	85		70 - 130	07/30/24 11:03	07/31/24 23:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		25.1		mg/Kg			07/31/24 04:48	5

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

Lab Sample ID: 880-46656-6

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 02:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 14:55	07/31/24 02:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/24 14:55	07/31/24 02:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/24 14:55	07/31/24 02:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/24 14:55	07/31/24 02:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/24 14:55	07/31/24 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130	07/30/24 14:55	07/31/24 02:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/30/24 14:55	07/31/24 02:14	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46656-6

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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			07/31/24 02:14	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			07/31/24 23:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 11:03	07/31/24 23:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/30/24 11:03	07/31/24 23:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 11:03	07/31/24 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/30/24 11:03	07/31/24 23:34	1
o-Terphenyl	83		70 - 130				07/30/24 11:03	07/31/24 23:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3940		50.0		mg/Kg			07/31/24 04:53	10

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-46656-7

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 02:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 02:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 02:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 14:55	07/31/24 02:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 02:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 14:55	07/31/24 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130				07/30/24 14:55	07/31/24 02:34	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/30/24 14:55	07/31/24 02:34	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			07/31/24 02:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/31/24 23:50	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		07/30/24 11:03	07/31/24 23:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/30/24 11:03	07/31/24 23:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-46656-7

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 11:03	07/31/24 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/30/24 11:03	07/31/24 23:50	1
o-Terphenyl	80		70 - 130				07/30/24 11:03	07/31/24 23:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	298		25.1		mg/Kg			07/31/24 05:09	5

Client Sample ID: S-2 (2')

Lab Sample ID: 880-46656-8

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 02:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 02:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 02:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 14:55	07/31/24 02:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 02:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 14:55	07/31/24 02:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				07/30/24 14:55	07/31/24 02:55	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/30/24 14:55	07/31/24 02:55	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			07/31/24 02:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/01/24 00:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/30/24 11:03	08/01/24 00:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/30/24 11:03	08/01/24 00:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 11:03	08/01/24 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				07/30/24 11:03	08/01/24 00:07	1
o-Terphenyl	89		70 - 130				07/30/24 11:03	08/01/24 00:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		25.2		mg/Kg			07/31/24 05:14	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (3')

Lab Sample ID: 880-46656-9

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 03:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 03:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 03:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 14:55	07/31/24 03:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 03:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 14:55	07/31/24 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130	07/30/24 14:55	07/31/24 03:15	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/30/24 14:55	07/31/24 03:15	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			07/31/24 03:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/31/24 16:55	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	<49.9	U *+ *1	49.9		mg/Kg		07/30/24 14:57	07/31/24 16:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1	49.9		mg/Kg		07/30/24 14:57	07/31/24 16:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 14:57	07/31/24 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	07/30/24 14:57	07/31/24 16:55	1
o-Terphenyl	58	S1-	70 - 130	07/30/24 14:57	07/31/24 16:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3250		24.8		mg/Kg			07/31/24 05:19	5

Client Sample ID: S-2 (4')

Lab Sample ID: 880-46656-10

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 03:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 03:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 03:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 14:55	07/31/24 03:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 03:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 14:55	07/31/24 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	07/30/24 14:55	07/31/24 03:36	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/30/24 14:55	07/31/24 03:36	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (4')

Lab Sample ID: 880-46656-10

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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			07/31/24 03:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/31/24 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U ** *1	49.8		mg/Kg		07/30/24 14:57	07/31/24 17:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		07/30/24 14:57	07/31/24 17:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 14:57	07/31/24 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/30/24 14:57	07/31/24 17:43	1
o-Terphenyl	83		70 - 130				07/30/24 14:57	07/31/24 17:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2170		24.8		mg/Kg			07/31/24 05:24	5

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

Lab Sample ID: 880-46656-11

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 05:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 05:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 05:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 14:55	07/31/24 05:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 14:55	07/31/24 05:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 14:55	07/31/24 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				07/30/24 14:55	07/31/24 05:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 14:55	07/31/24 05:26	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			07/31/24 05:26	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			07/31/24 17:59	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 ** *1	50.0		mg/Kg		07/30/24 14:57	07/31/24 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U ** *1	50.0		mg/Kg		07/30/24 14:57	07/31/24 17:59	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (0-1')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-11
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 14:57	07/31/24 17:59	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	88		70 - 130				07/30/24 14:57	07/31/24 17:59	1	
o-Terphenyl	80		70 - 130				07/30/24 14:57	07/31/24 17:59	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2320		25.2		mg/Kg			07/31/24 05:29	5	

Client Sample ID: S-3 (1.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-12
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		07/30/24 14:55	07/31/24 05:46	1	
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 05:46	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 05:46	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 14:55	07/31/24 05:46	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 05:46	1	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 14:55	07/31/24 05:46	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				07/30/24 14:55	07/31/24 05:46	1	
1,4-Difluorobenzene (Surr)	104		70 - 130				07/30/24 14:55	07/31/24 05:46	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			07/31/24 05:46	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7		mg/Kg			07/31/24 18:14	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U ** *1	49.7		mg/Kg		07/30/24 14:57	07/31/24 18:14	1	
Diesel Range Organics (Over C10-C28)	<49.7	U ** *1	49.7		mg/Kg		07/30/24 14:57	07/31/24 18:14	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 14:57	07/31/24 18:14	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	83		70 - 130				07/30/24 14:57	07/31/24 18:14	1	
o-Terphenyl	75		70 - 130				07/30/24 14:57	07/31/24 18:14	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	61.6		5.02		mg/Kg			07/31/24 05:35	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (2')

Lab Sample ID: 880-46656-13

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 06:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 06:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 06:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 14:55	07/31/24 06:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 14:55	07/31/24 06:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 14:55	07/31/24 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	07/30/24 14:55	07/31/24 06:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/30/24 14:55	07/31/24 06:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/31/24 06:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			07/31/24 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U ** *1	49.7		mg/Kg		07/30/24 14:57	07/31/24 18:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U ** *1	49.7		mg/Kg		07/30/24 14:57	07/31/24 18:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 14:57	07/31/24 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	07/30/24 14:57	07/31/24 18:30	1
o-Terphenyl	74		70 - 130	07/30/24 14:57	07/31/24 18:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		4.99		mg/Kg			07/31/24 05:50	1

Client Sample ID: S-3 (3')

Lab Sample ID: 880-46656-14

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 06:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 14:55	07/31/24 06:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/24 14:55	07/31/24 06:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/24 14:55	07/31/24 06:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/24 14:55	07/31/24 06:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/24 14:55	07/31/24 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	07/30/24 14:55	07/31/24 06:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/30/24 14:55	07/31/24 06:27	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')

Lab Sample ID: 880-46656-14

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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			07/31/24 06:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/31/24 18:45	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 ** *1	49.8		mg/Kg		07/30/24 14:57	07/31/24 18:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		07/30/24 14:57	07/31/24 18:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 14:57	07/31/24 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				07/30/24 14:57	07/31/24 18:45	1
o-Terphenyl	75		70 - 130				07/30/24 14:57	07/31/24 18:45	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			07/31/24 05:56	5

Client Sample ID: S-3 (4')

Lab Sample ID: 880-46656-15

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 14:55	07/31/24 06:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 06:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 06:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 14:55	07/31/24 06:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 06:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 14:55	07/31/24 06:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130				07/30/24 14:55	07/31/24 06:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/24 14:55	07/31/24 06:47	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			07/31/24 06:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/31/24 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** *1	49.9		mg/Kg		07/30/24 14:57	07/31/24 19:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U ** *1	49.9		mg/Kg		07/30/24 14:57	07/31/24 19:01	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (4')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-15
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/30/24 14:57	07/31/24 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				07/30/24 14:57	07/31/24 19:01	1
o-Terphenyl	70		70 - 130				07/30/24 14:57	07/31/24 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		25.2		mg/Kg			07/31/24 06:11	5

Surrogate Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-46656-1	S-1 (0-1')	116	97
880-46656-1 MS	S-1 (0-1')	126	97
880-46656-1 MSD	S-1 (0-1')	134 S1+	92
880-46656-2	S-1 (1.5')	152 S1+	101
880-46656-3	S-1 (2')	151 S1+	92
880-46656-4	S-1 (3')	150 S1+	99
880-46656-5	S-1 (4')	157 S1+	92
880-46656-6	S-2 (0-1')	165 S1+	101
880-46656-7	S-2 (1.5')	157 S1+	104
880-46656-8	S-2 (2')	156 S1+	100
880-46656-9	S-2 (3')	164 S1+	97
880-46656-10	S-2 (4')	160 S1+	97
880-46656-11	S-3 (0-1')	128	97
880-46656-12	S-3 (1.5')	156 S1+	104
880-46656-13	S-3 (2')	149 S1+	100
880-46656-14	S-3 (3')	156 S1+	100
880-46656-15	S-3 (4')	158 S1+	97
LCS 880-87077/1-A	Lab Control Sample	123	97
LCSD 880-87077/2-A	Lab Control Sample Dup	119	86
MB 880-87019/5-A	Method Blank	212 S1+	119
MB 880-87077/5-A	Method Blank	247 S1+	132 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-46579-A-1-T MS	Matrix Spike	116	138 S1+
880-46579-A-1-U MSD	Matrix Spike Duplicate	117	142 S1+
880-46655-A-6-D MS	Matrix Spike	103	96
880-46655-A-6-E MSD	Matrix Spike Duplicate	105	93
880-46656-1	S-1 (0-1')	126	142 S1+
880-46656-2	S-1 (1.5')	90	80
880-46656-3	S-1 (2')	91	82
880-46656-4	S-1 (3')	84	75
880-46656-5	S-1 (4')	96	85
880-46656-6	S-2 (0-1')	89	83
880-46656-7	S-2 (1.5')	92	80
880-46656-8	S-2 (2')	97	89
880-46656-9	S-2 (3')	64 S1-	58 S1-
880-46656-9 MS	S-2 (3')	81	66 S1-
880-46656-9 MSD	S-2 (3')	82	66 S1-
880-46656-10	S-2 (4')	91	83
880-46656-11	S-3 (0-1')	88	80
880-46656-12	S-3 (1.5')	83	75

Surrogate Summary

Client: Carmona Resources

Job ID: 880-46656-1

Project/Site: Populus Fed (6.13.24)

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-46656-13	S-3 (2')	83	74
880-46656-14	S-3 (3')	82	75
880-46656-15	S-3 (4')	78	70
LCS 880-87038/2-A	Lab Control Sample	123	91
LCS 880-87078/2-A	Lab Control Sample	125	106
LCS 880-87225/2-A	Lab Control Sample	99	109
LCSD 880-87038/3-A	Lab Control Sample Dup	99	94
LCSD 880-87078/3-A	Lab Control Sample Dup	168 S1+	139 S1+
LCSD 880-87225/3-A	Lab Control Sample Dup	123	108
MB 880-87038/1-A	Method Blank	155 S1+	152 S1+
MB 880-87078/1-A	Method Blank	64 S1-	59 S1-
MB 880-87225/1-A	Method Blank	84	86
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87019/5-A

Matrix: Solid

Analysis Batch: 86999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 10:04	07/30/24 12:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 10:04	07/30/24 12:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 10:04	07/30/24 12:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 10:04	07/30/24 12:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 10:04	07/30/24 12:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 10:04	07/30/24 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	212	S1+	70 - 130	07/30/24 10:04	07/30/24 12:22	1
1,4-Difluorobenzene (Surr)	119		70 - 130	07/30/24 10:04	07/30/24 12:22	1

Lab Sample ID: MB 880-87077/5-A

Matrix: Solid

Analysis Batch: 86999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 00:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 14:55	07/31/24 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 14:55	07/31/24 00:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 14:55	07/31/24 00:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	247	S1+	70 - 130	07/30/24 14:55	07/31/24 00:03	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	07/30/24 14:55	07/31/24 00:03	1

Lab Sample ID: LCS 880-87077/1-A

Matrix: Solid

Analysis Batch: 86999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1300		mg/Kg		130	70 - 130
Toluene	0.100	0.1237		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1079		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2295		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1278		mg/Kg		128	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-87077/2-A

Matrix: Solid

Analysis Batch: 86999

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87077

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1171		mg/Kg		117	70 - 130	10	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-87077/2-A
Matrix: Solid
Analysis Batch: 86999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87077

Analyte	Spike			LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Result	Qualifier				Limits	RPD	
Toluene	0.100	0.1162				mg/Kg		116	70 - 130	6	35
Ethylbenzene	0.100	0.1006				mg/Kg		101	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2027				mg/Kg		101	70 - 130	12	35
o-Xylene	0.100	0.1139				mg/Kg		114	70 - 130	11	35
		LCSD	LCSD								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		119		70 - 130							
1,4-Difluorobenzene (Surr)		86		70 - 130							

Lab Sample ID: 880-46656-1 MS
Matrix: Solid
Analysis Batch: 86999

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 87077

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00202	U	0.100	0.1023		mg/Kg		102	70 - 130		
Toluene	<0.00202	U	0.100	0.07908		mg/Kg		79	70 - 130		
Ethylbenzene	<0.00202	U F1	0.100	0.05062	F1	mg/Kg		51	70 - 130		
m-Xylene & p-Xylene	<0.00404	U F1	0.200	0.1158	F1	mg/Kg		58	70 - 130		
o-Xylene	<0.00202	U F1	0.100	0.07226		mg/Kg		72	70 - 130		
		MS	MS								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		126		70 - 130							
1,4-Difluorobenzene (Surr)		97		70 - 130							

Lab Sample ID: 880-46656-1 MSD
Matrix: Solid
Analysis Batch: 86999

Client Sample ID: S-1 (0-1')
Prep Type: Total/NA
Prep Batch: 87077

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00202	U	0.100	0.1024		mg/Kg		102	70 - 130	0	35
Toluene	<0.00202	U	0.100	0.07634		mg/Kg		76	70 - 130	4	35
Ethylbenzene	<0.00202	U F1	0.100	0.05017	F1	mg/Kg		50	70 - 130	1	35
m-Xylene & p-Xylene	<0.00404	U F1	0.200	0.1207	F1	mg/Kg		60	70 - 130	4	35
o-Xylene	<0.00202	U F1	0.100	0.06358	F1	mg/Kg		64	70 - 130	13	35
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		134	S1+	70 - 130							
1,4-Difluorobenzene (Surr)		92		70 - 130							

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

Lab Sample ID: MB 880-87038/1-A
Matrix: Solid
Analysis Batch: 87137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87038

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/30/24 11:03	07/31/24 09:43		1

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-87038/1-A
Matrix: Solid
Analysis Batch: 87137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 11:03	07/31/24 09:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 11:03	07/31/24 09:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130	07/30/24 11:03	07/31/24 09:43	1
o-Terphenyl	152	S1+	70 - 130	07/30/24 11:03	07/31/24 09:43	1

Lab Sample ID: LCS 880-87038/2-A
Matrix: Solid
Analysis Batch: 87137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1139		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	887.8		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-87038/3-A
Matrix: Solid
Analysis Batch: 87137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87038

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1178		mg/Kg		118	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	988.5		mg/Kg		99	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-46655-A-6-D MS
Matrix: Solid
Analysis Batch: 87137

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	996	1060		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	996	854.6		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	96		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46655-A-6-E MSD

Matrix: Solid

Analysis Batch: 87137

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87038

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	996	1093		mg/Kg		110	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.6	U	996	862.8		mg/Kg		87	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: MB 880-87078/1-A

Matrix: Solid

Analysis Batch: 87131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87078

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		07/30/24 14:57	07/31/24 11:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 14:57	07/31/24 11:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 14:57	07/31/24 11:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				07/30/24 14:57	07/31/24 11:54	1
o-Terphenyl	59	S1-	70 - 130				07/30/24 14:57	07/31/24 11:54	1

Lab Sample ID: LCS 880-87078/2-A

Matrix: Solid

Analysis Batch: 87131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87078

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1101		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1115		mg/Kg		112	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: LCSD 880-87078/3-A

Matrix: Solid

Analysis Batch: 87131

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87078

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1425	*+ *1	mg/Kg		143	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	1386	*+ *1	mg/Kg		139	70 - 130	22	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-87078/3-A
Matrix: Solid
Analysis Batch: 87131

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87078

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	168	S1+	70 - 130
o-Terphenyl	139	S1+	70 - 130

Lab Sample ID: 880-46656-9 MS
Matrix: Solid
Analysis Batch: 87131

Client Sample ID: S-2 (3')
Prep Type: Total/NA
Prep Batch: 87078

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** *1	997	879.0		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U ** *1	997	781.9		mg/Kg		78	70 - 130	
Surrogate	MS		Limits							
	%Recovery	Qualifier								
1-Chlorooctane	81		70 - 130							
o-Terphenyl	66	S1-	70 - 130							

Lab Sample ID: 880-46656-9 MSD
Matrix: Solid
Analysis Batch: 87131

Client Sample ID: S-2 (3')
Prep Type: Total/NA
Prep Batch: 87078

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits		RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** *1	997	886.5		mg/Kg		89	70 - 130		1	20
Diesel Range Organics (Over C10-C28)	<49.9	U ** *1	997	776.3		mg/Kg		78	70 - 130		1	20
Surrogate	MSD		Limits									
	%Recovery	Qualifier										
1-Chlorooctane	82		70 - 130									
o-Terphenyl	66	S1-	70 - 130									

Lab Sample ID: MB 880-87225/1-A
Matrix: Solid
Analysis Batch: 87292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87225

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		08/01/24 07:20	08/02/24 09:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/01/24 07:20	08/02/24 09:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/01/24 07:20	08/02/24 09:45	1
Surrogate	MB	MB	Limits						
	%Recovery	Qualifier		Prepared	Analyzed	Dil Fac			
1-Chlorooctane	84		70 - 130	08/01/24 07:20	08/02/24 09:45	1			
o-Terphenyl	86		70 - 130	08/01/24 07:20	08/02/24 09:45	1			

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-87225/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87292				Prep Batch: 87225						
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	974.5		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	977.6		mg/Kg		98	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	99		70 - 130							
o-Terphenyl	109		70 - 130							

Lab Sample ID: LCSD 880-87225/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87292				Prep Batch: 87225						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	983.7		mg/Kg		98	70 - 130	1 20
Diesel Range Organics (Over C10-C28)			1000	977.0		mg/Kg		98	70 - 130	0 20
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	123		70 - 130							
o-Terphenyl	108		70 - 130							

Lab Sample ID: 880-46579-A-1-T MS				Client Sample ID: Matrix Spike						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87292				Prep Batch: 87225						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1093		mg/Kg		105	70 - 130	
Diesel Range Organics (Over C10-C28)	867		999	1842		mg/Kg		98	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	116		70 - 130							
o-Terphenyl	138	S1+	70 - 130							

Lab Sample ID: 880-46579-A-1-U MSD				Client Sample ID: Matrix Spike Duplicate						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87292				Prep Batch: 87225						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1115		mg/Kg		107	70 - 130	2 20
Diesel Range Organics (Over C10-C28)	867		999	1864		mg/Kg		100	70 - 130	1 20
		MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	117		70 - 130							

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46579-A-1-U MSD				Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 87292				Prep Batch: 87225			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
o-Terphenyl	142	S1+	70 - 130				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87079/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 87084									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/31/24 06:01	1

Lab Sample ID: LCS 880-87079/2-A					Client Sample ID: Lab Control Sample					
Matrix: Solid					Prep Type: Soluble					
Analysis Batch: 87084										
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	236.1		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-87079/3-A					Client Sample ID: Lab Control Sample Dup					
Matrix: Solid					Prep Type: Soluble					
Analysis Batch: 87084										
			Spike	LCSD	LCSD				%Rec	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Chloride			250	238.2		mg/Kg		95	90 - 110	1
						</				

Lab Sample ID: 880-46637-A-6-C MS							Client Sample ID: Matrix Spike			
Matrix: Solid							Prep Type: Soluble			
Analysis Batch: 87084										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	12700	F1	5040	19500	F1	mg/Kg		135	90 - 110	

Lab Sample ID: 880-46637-A-6-D MSD						Client Sample ID: Matrix Spike Duplicate					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 87084											
	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	12700	F1	5040	19410	F1	mg/Kg		134	90 - 110	0	20

Lab Sample ID: MB 880-87085/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 87087									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/31/24 04:06	1

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-87085/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87087											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.3		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-87085/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87087											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	258.1		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-46656-12 MS				Client Sample ID: S-3 (1.5')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87087											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	61.6		251	303.1		mg/Kg		96	90 - 110		

Lab Sample ID: 880-46656-12 MSD				Client Sample ID: S-3 (1.5')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 87087											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.6		251	303.2		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 86999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-1	S-1 (0-1')	Total/NA	Solid	8021B	87077
880-46656-2	S-1 (1.5')	Total/NA	Solid	8021B	87077
880-46656-3	S-1 (2')	Total/NA	Solid	8021B	87077
880-46656-4	S-1 (3')	Total/NA	Solid	8021B	87077
880-46656-5	S-1 (4')	Total/NA	Solid	8021B	87077
880-46656-6	S-2 (0-1')	Total/NA	Solid	8021B	87077
880-46656-7	S-2 (1.5')	Total/NA	Solid	8021B	87077
880-46656-8	S-2 (2')	Total/NA	Solid	8021B	87077
880-46656-9	S-2 (3')	Total/NA	Solid	8021B	87077
880-46656-10	S-2 (4')	Total/NA	Solid	8021B	87077
880-46656-11	S-3 (0-1')	Total/NA	Solid	8021B	87077
880-46656-12	S-3 (1.5')	Total/NA	Solid	8021B	87077
880-46656-13	S-3 (2')	Total/NA	Solid	8021B	87077
880-46656-14	S-3 (3')	Total/NA	Solid	8021B	87077
880-46656-15	S-3 (4')	Total/NA	Solid	8021B	87077
MB 880-87019/5-A	Method Blank	Total/NA	Solid	8021B	87019
MB 880-87077/5-A	Method Blank	Total/NA	Solid	8021B	87077
LCS 880-87077/1-A	Lab Control Sample	Total/NA	Solid	8021B	87077
LCSD 880-87077/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87077
880-46656-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	87077
880-46656-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	87077

Prep Batch: 87019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87019/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 87077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-1	S-1 (0-1')	Total/NA	Solid	5035	
880-46656-2	S-1 (1.5')	Total/NA	Solid	5035	
880-46656-3	S-1 (2')	Total/NA	Solid	5035	
880-46656-4	S-1 (3')	Total/NA	Solid	5035	
880-46656-5	S-1 (4')	Total/NA	Solid	5035	
880-46656-6	S-2 (0-1')	Total/NA	Solid	5035	
880-46656-7	S-2 (1.5')	Total/NA	Solid	5035	
880-46656-8	S-2 (2')	Total/NA	Solid	5035	
880-46656-9	S-2 (3')	Total/NA	Solid	5035	
880-46656-10	S-2 (4')	Total/NA	Solid	5035	
880-46656-11	S-3 (0-1')	Total/NA	Solid	5035	
880-46656-12	S-3 (1.5')	Total/NA	Solid	5035	
880-46656-13	S-3 (2')	Total/NA	Solid	5035	
880-46656-14	S-3 (3')	Total/NA	Solid	5035	
880-46656-15	S-3 (4')	Total/NA	Solid	5035	
MB 880-87077/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87077/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87077/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46656-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-46656-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 87158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-46656-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-46656-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-46656-4	S-1 (3')	Total/NA	Solid	Total BTEX	
880-46656-5	S-1 (4')	Total/NA	Solid	Total BTEX	
880-46656-6	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-46656-7	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-46656-8	S-2 (2')	Total/NA	Solid	Total BTEX	
880-46656-9	S-2 (3')	Total/NA	Solid	Total BTEX	
880-46656-10	S-2 (4')	Total/NA	Solid	Total BTEX	
880-46656-11	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-46656-12	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-46656-13	S-3 (2')	Total/NA	Solid	Total BTEX	
880-46656-14	S-3 (3')	Total/NA	Solid	Total BTEX	
880-46656-15	S-3 (4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-46656-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-46656-4	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-46656-5	S-1 (4')	Total/NA	Solid	8015NM Prep	
880-46656-6	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-46656-7	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-46656-8	S-2 (2')	Total/NA	Solid	8015NM Prep	
MB 880-87038/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87038/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87038/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46655-A-6-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46655-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 87078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-9	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-46656-10	S-2 (4')	Total/NA	Solid	8015NM Prep	
880-46656-11	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-46656-12	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-46656-13	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-46656-14	S-3 (3')	Total/NA	Solid	8015NM Prep	
880-46656-15	S-3 (4')	Total/NA	Solid	8015NM Prep	
MB 880-87078/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87078/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87078/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46656-9 MS	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-46656-9 MSD	S-2 (3')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-9	S-2 (3')	Total/NA	Solid	8015B NM	87078

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QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 87131 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-10	S-2 (4')	Total/NA	Solid	8015B NM	87078
880-46656-11	S-3 (0-1')	Total/NA	Solid	8015B NM	87078
880-46656-12	S-3 (1.5')	Total/NA	Solid	8015B NM	87078
880-46656-13	S-3 (2')	Total/NA	Solid	8015B NM	87078
880-46656-14	S-3 (3')	Total/NA	Solid	8015B NM	87078
880-46656-15	S-3 (4')	Total/NA	Solid	8015B NM	87078
MB 880-87078/1-A	Method Blank	Total/NA	Solid	8015B NM	87078
LCS 880-87078/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87078
LCSD 880-87078/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87078
880-46656-9 MS	S-2 (3')	Total/NA	Solid	8015B NM	87078
880-46656-9 MSD	S-2 (3')	Total/NA	Solid	8015B NM	87078

Analysis Batch: 87137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-2	S-1 (1.5')	Total/NA	Solid	8015B NM	87038
880-46656-3	S-1 (2')	Total/NA	Solid	8015B NM	87038
880-46656-4	S-1 (3')	Total/NA	Solid	8015B NM	87038
880-46656-5	S-1 (4')	Total/NA	Solid	8015B NM	87038
880-46656-6	S-2 (0-1')	Total/NA	Solid	8015B NM	87038
880-46656-7	S-2 (1.5')	Total/NA	Solid	8015B NM	87038
880-46656-8	S-2 (2')	Total/NA	Solid	8015B NM	87038
MB 880-87038/1-A	Method Blank	Total/NA	Solid	8015B NM	87038
LCS 880-87038/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87038
LCSD 880-87038/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87038
880-46655-A-6-D MS	Matrix Spike	Total/NA	Solid	8015B NM	87038
880-46655-A-6-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87038

Prep Batch: 87225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-87225/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87225/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87225/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46579-A-1-T MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46579-A-1-U MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-46656-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-46656-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-46656-4	S-1 (3')	Total/NA	Solid	8015 NM	
880-46656-5	S-1 (4')	Total/NA	Solid	8015 NM	
880-46656-6	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-46656-7	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-46656-8	S-2 (2')	Total/NA	Solid	8015 NM	
880-46656-9	S-2 (3')	Total/NA	Solid	8015 NM	
880-46656-10	S-2 (4')	Total/NA	Solid	8015 NM	
880-46656-11	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-46656-12	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-46656-13	S-3 (2')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 87264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-14	S-3 (3')	Total/NA	Solid	8015 NM	
880-46656-15	S-3 (4')	Total/NA	Solid	8015 NM	

Analysis Batch: 87292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-1	S-1 (0-1')	Total/NA	Solid	8015B NM	87225
MB 880-87225/1-A	Method Blank	Total/NA	Solid	8015B NM	87225
LCS 880-87225/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87225
LCSD 880-87225/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87225
880-46579-A-1-T MS	Matrix Spike	Total/NA	Solid	8015B NM	87225
880-46579-A-1-U MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87225

HPLC/IC

Leach Batch: 87079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-46656-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-46656-3	S-1 (2')	Soluble	Solid	DI Leach	
MB 880-87079/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87079/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87079/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46637-A-6-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-46637-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 87084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-1	S-1 (0-1')	Soluble	Solid	300.0	87079
880-46656-2	S-1 (1.5')	Soluble	Solid	300.0	87079
880-46656-3	S-1 (2')	Soluble	Solid	300.0	87079
MB 880-87079/1-A	Method Blank	Soluble	Solid	300.0	87079
LCS 880-87079/2-A	Lab Control Sample	Soluble	Solid	300.0	87079
LCSD 880-87079/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87079
880-46637-A-6-C MS	Matrix Spike	Soluble	Solid	300.0	87079
880-46637-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87079

Leach Batch: 87085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-4	S-1 (3')	Soluble	Solid	DI Leach	
880-46656-5	S-1 (4')	Soluble	Solid	DI Leach	
880-46656-6	S-2 (0-1')	Soluble	Solid	DI Leach	
880-46656-7	S-2 (1.5')	Soluble	Solid	DI Leach	
880-46656-8	S-2 (2')	Soluble	Solid	DI Leach	
880-46656-9	S-2 (3')	Soluble	Solid	DI Leach	
880-46656-10	S-2 (4')	Soluble	Solid	DI Leach	
880-46656-11	S-3 (0-1')	Soluble	Solid	DI Leach	
880-46656-12	S-3 (1.5')	Soluble	Solid	DI Leach	
880-46656-13	S-3 (2')	Soluble	Solid	DI Leach	
880-46656-14	S-3 (3')	Soluble	Solid	DI Leach	
880-46656-15	S-3 (4')	Soluble	Solid	DI Leach	
MB 880-87085/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 87085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-87085/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87085/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46656-12 MS	S-3 (1.5')	Soluble	Solid	DI Leach	
880-46656-12 MSD	S-3 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 87087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46656-4	S-1 (3')	Soluble	Solid	300.0	87085
880-46656-5	S-1 (4')	Soluble	Solid	300.0	87085
880-46656-6	S-2 (0-1')	Soluble	Solid	300.0	87085
880-46656-7	S-2 (1.5')	Soluble	Solid	300.0	87085
880-46656-8	S-2 (2')	Soluble	Solid	300.0	87085
880-46656-9	S-2 (3')	Soluble	Solid	300.0	87085
880-46656-10	S-2 (4')	Soluble	Solid	300.0	87085
880-46656-11	S-3 (0-1')	Soluble	Solid	300.0	87085
880-46656-12	S-3 (1.5')	Soluble	Solid	300.0	87085
880-46656-13	S-3 (2')	Soluble	Solid	300.0	87085
880-46656-14	S-3 (3')	Soluble	Solid	300.0	87085
880-46656-15	S-3 (4')	Soluble	Solid	300.0	87085
MB 880-87085/1-A	Method Blank	Soluble	Solid	300.0	87085
LCS 880-87085/2-A	Lab Control Sample	Soluble	Solid	300.0	87085
LCSD 880-87085/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87085
880-46656-12 MS	S-3 (1.5')	Soluble	Solid	300.0	87085
880-46656-12 MSD	S-3 (1.5')	Soluble	Solid	300.0	87085

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-1')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-1
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			4.95 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 00:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 00:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	08/02/24 13:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87225	08/01/24 07:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87292	08/02/24 13:38	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 09:44	CH	EET MID

Client Sample ID: S-1 (1.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-2
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			4.98 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 00:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 00:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 22:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 22:29	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 09:52	CH	EET MID

Client Sample ID: S-1 (2')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-3
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			5.01 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 01:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 01:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 22:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 22:45	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 10:00	CH	EET MID

Client Sample ID: S-1 (3')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-4
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			5.02 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 01:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 01:33	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (3')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-4
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			87264	07/31/24 23:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 23:03	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87087	07/31/24 04:42	CH	EET MID

Client Sample ID: S-1 (4')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 01:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 01:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 23:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 23:18	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87087	07/31/24 04:48	CH	EET MID

Client Sample ID: S-2 (0-1')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-6
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	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 02:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 02:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 23:34	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	87087	07/31/24 04:53	CH	EET MID

Client Sample ID: S-2 (1.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-7
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	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 02:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 02:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 23:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 23:50	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (1.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-7
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	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87087	07/31/24 05:09	CH	EET MID

Client Sample ID: S-2 (2')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-8
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	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 02:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 02:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	08/01/24 00:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	08/01/24 00:07	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87087	07/31/24 05:14	CH	EET MID

Client Sample ID: S-2 (3')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 03:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 03:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 16:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87078	07/30/24 14:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87131	07/31/24 16:55	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87087	07/31/24 05:19	CH	EET MID

Client Sample ID: S-2 (4')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-10
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	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 03:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 03:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 17:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87078	07/30/24 14:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87131	07/31/24 17:43	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87087	07/31/24 05:24	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (0-1')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 05:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 05:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87078	07/30/24 14:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87131	07/31/24 17:59	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87087	07/31/24 05:29	CH	EET MID

Client Sample ID: S-3 (1.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 05:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 05:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 18:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87078	07/30/24 14:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87131	07/31/24 18:14	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87087	07/31/24 05:35	CH	EET MID

Client Sample ID: S-3 (2')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 06:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 06:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 18:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87078	07/30/24 14:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87131	07/31/24 18:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87087	07/31/24 05:50	CH	EET MID

Client Sample ID: S-3 (3')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-14
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			4.95 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 06:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 06:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (3')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-14
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			87264	07/31/24 18:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87078	07/30/24 14:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87131	07/31/24 18:45	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87087	07/31/24 05:56	CH	EET MID

Client Sample ID: S-3 (4')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46656-15
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			5.01 g	5 mL	87077	07/30/24 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86999	07/31/24 06:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87158	07/31/24 06:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			87264	07/31/24 19:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87078	07/30/24 14:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87131	07/31/24 19:01	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87085	07/30/24 16:23	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	87087	07/31/24 06:11	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46656-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46656-1	S-1 (0-1')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-2	S-1 (1.5')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-3	S-1 (2')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-4	S-1 (3')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-5	S-1 (4')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-6	S-2 (0-1')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-7	S-2 (1.5')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-8	S-2 (2')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-9	S-2 (3')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-10	S-2 (4')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-11	S-3 (0-1')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-12	S-3 (1.5')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-13	S-3 (2')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-14	S-3 (3')	Solid	07/29/24 00:00	07/30/24 14:04
880-46656-15	S-3 (4')	Solid	07/29/24 00:00	07/30/24 14:04

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880-46656 Chain of Custody

Page 1 of 2

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

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

Project Name:				Turn Around						Pres. Code	ANALYSIS REQUEST										Preservative Codes												
Project Number:				2462				☐ Routine ☒ Rush													None: NO DI Water: H ₂ O												
Project Location:				Eddy County, New Mexico				Due Date:		72 HR												Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: S/APC											
Sampler's Name:				DD																													
PO #:																																	
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		(Yes) No																							
Received Intact:				Yes No				Thermometer ID:																									
Cooler Custody Seals:				Yes No		N/A		Correction Factor:																									
Sample Custody Seals:				Yes No		N/A		Temperature Reading:		-1.4																							
Total Containers:								Corrected Temperature:		-1.5																							
Sample Identification				Date		Time		Soil		Water		Grab/Comp		# of Cont												Sample Comments							
S-1 (0-1')				7/29/2024				X				G		1		X X X X																	
S-1 (1.5')				7/29/2024				X				G		1		X X X X																	
S-1 (2')				7/29/2024				X				G		1		X X X X																	
S-1 (3')				7/29/2024				X				G		1		X X X X																	
S-1 (4')				7/29/2024				X				G		1		X X X X																	
S-2 (0-1')				7/29/2024				X				G		1		X X X X																	
S-2 (1.5')				7/29/2024				X				G		1		X X X X																	
S-2 (2')				7/29/2024				X				G		1		X X X X																	
S-2 (3')				7/29/2024				X				G		1		X X X X																	
S-2 (4')				7/29/2024				X				G		1		X X X X																	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7-30-24/1400		7/30/24 1400

Chain of Custody

Work Order N

4652

Page 2 of 2

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

Work Order Comments Program : UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Deepfund ☐ State of Project: Reporting Level II ☐ Level III ☐ PST/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
	7.30.24 / 1400		7/30/24 1400

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-46656-1
SDG Number: Eddy County, New Mexico

Login Number: 46656

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

- 1
- 2
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- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/1/2024 11:54:39 AM

JOB DESCRIPTION

Populus Fed (6.13.24)
Eddy County, New Mexico

JOB NUMBER

880-46655-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

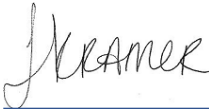
Eurofins Midland

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
8/1/2024 11:54:39 AM

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

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Laboratory Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	18
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	24

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Populus Fed (6.13.24)

Job ID: 880-46655-1

Job ID: 880-46655-1

Eurofins Midland

Job Narrative 880-46655-1

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 7/30/2024 2:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-46655-1), H-2 (0-0.5') (880-46655-2), H-3 (0-0.5') (880-46655-3), H-4 (0-0.5') (880-46655-4), H-5 (0-0.5') (880-46655-5) and H-6 (0-0.5') (880-46655-6).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-87107 recovered above the upper control limit for Benzene. 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 880-87107/20).

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87038 and analytical batch 880-87137 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87137 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 880-87137/21).

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 880-87079 and analytical batch 880-87084 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.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46655-1

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 15:49	07/31/24 12:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 15:49	07/31/24 12:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/24 15:49	07/31/24 12:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/24 15:49	07/31/24 12:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/24 15:49	07/31/24 12:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/24 15:49	07/31/24 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/30/24 15:49	07/31/24 12:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/30/24 15:49	07/31/24 12:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/31/24 12:11	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			07/31/24 18:55	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	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 18:55	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 18:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	07/30/24 11:03	07/31/24 18:55	1
o-Terphenyl	83		70 - 130	07/30/24 11:03	07/31/24 18:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.8		5.03		mg/Kg			07/31/24 08:40	1

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

Lab Sample ID: 880-46655-2

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 15:49	07/31/24 12:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 12:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 12:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/24 15:49	07/31/24 12:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/24 15:49	07/31/24 12:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/24 15:49	07/31/24 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/30/24 15:49	07/31/24 12:32	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/30/24 15:49	07/31/24 12:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Client Sample ID: H-2 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/31/24 12:32	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.6	U	49.6		mg/Kg			07/31/24 19:11	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		07/30/24 11:03	07/31/24 19:11	1	
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/30/24 11:03	07/31/24 19:11	1	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/30/24 11:03	07/31/24 19:11	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	96		70 - 130				07/30/24 11:03	07/31/24 19:11	1	
o-Terphenyl	87		70 - 130				07/30/24 11:03	07/31/24 19:11	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	43.6		5.01		mg/Kg			07/31/24 08:48	1	

Client Sample ID: H-3 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-3
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		07/30/24 15:49	07/31/24 12:52	1	
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 12:52	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 12:52	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/24 15:49	07/31/24 12:52	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 12:52	1	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/24 15:49	07/31/24 12:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	107		70 - 130				07/30/24 15:49	07/31/24 12:52	1	
1,4-Difluorobenzene (Surr)	92		70 - 130				07/30/24 15:49	07/31/24 12:52	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			07/31/24 12:52	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			07/31/24 19:28	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 19:28	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 19:28	1	

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Client Sample ID: H-3 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 19:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/30/24 11:03	07/31/24 19:28	1
o-Terphenyl	76		70 - 130				07/30/24 11:03	07/31/24 19:28	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.4		5.05		mg/Kg			07/31/24 09:12	1

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-4
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		07/30/24 15:49	07/31/24 13:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 13:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 13:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 15:49	07/31/24 13:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 13:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 15:49	07/31/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/30/24 15:49	07/31/24 13:13	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/30/24 15:49	07/31/24 13:13	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			07/31/24 13:13	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			07/31/24 19:45	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	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 19:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 19:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/30/24 11:03	07/31/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/30/24 11:03	07/31/24 19:45	1
o-Terphenyl	73		70 - 130				07/30/24 11:03	07/31/24 19:45	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		4.99		mg/Kg			07/31/24 09:20	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46655-5

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 15:49	07/31/24 13:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 13:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 13:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/24 15:49	07/31/24 13:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/24 15:49	07/31/24 13:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/24 15:49	07/31/24 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				07/30/24 15:49	07/31/24 13:33	1
1,4-Difluorobenzene (Surr)	91		70 - 130				07/30/24 15:49	07/31/24 13:33	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			07/31/24 13:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/31/24 20:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/30/24 11:03	07/31/24 20:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/30/24 11:03	07/31/24 20:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/30/24 11:03	07/31/24 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/30/24 11:03	07/31/24 20:02	1
o-Terphenyl	80		70 - 130				07/30/24 11:03	07/31/24 20:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			07/31/24 09:28	1

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

Lab Sample ID: 880-46655-6

Date Collected: 07/29/24 00:00

Matrix: Solid

Date Received: 07/30/24 14:04

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		07/30/24 15:49	07/31/24 13:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/24 15:49	07/31/24 13:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/24 15:49	07/31/24 13:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/24 15:49	07/31/24 13:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/24 15:49	07/31/24 13:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/24 15:49	07/31/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				07/30/24 15:49	07/31/24 13:54	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/30/24 15:49	07/31/24 13:54	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Client Sample ID: H-6 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-6
Matrix: Solid

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			07/31/24 13:54	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.6	U	49.6		mg/Kg			07/31/24 18:03	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		07/30/24 11:03	07/31/24 18:03	1	
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/30/24 11:03	07/31/24 18:03	1	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/30/24 11:03	07/31/24 18:03	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	91		70 - 130				07/30/24 11:03	07/31/24 18:03	1	
o-Terphenyl	83		70 - 130				07/30/24 11:03	07/31/24 18:03	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6.41		4.97		mg/Kg			07/31/24 09:36	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-46655-1	H-1 (0-0.5')	106	94
880-46655-1 MS	H-1 (0-0.5')	94	99
880-46655-1 MSD	H-1 (0-0.5')	93	97
880-46655-2	H-2 (0-0.5')	107	93
880-46655-3	H-3 (0-0.5')	107	92
880-46655-4	H-4 (0-0.5')	108	92
880-46655-5	H-5 (0-0.5')	115	91
880-46655-6	H-6 (0-0.5')	113	92
LCS 880-87082/1-A	Lab Control Sample	93	95
LCSD 880-87082/2-A	Lab Control Sample Dup	101	97
MB 880-87082/5-A	Method Blank	100	82
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)
880-46655-1	H-1 (0-0.5')	91	83
880-46655-2	H-2 (0-0.5')	96	87
880-46655-3	H-3 (0-0.5')	84	76
880-46655-4	H-4 (0-0.5')	81	73
880-46655-5	H-5 (0-0.5')	89	80
880-46655-6	H-6 (0-0.5')	91	83
880-46655-6 MS	H-6 (0-0.5')	103	96
880-46655-6 MSD	H-6 (0-0.5')	105	93
LCS 880-87038/2-A	Lab Control Sample	123	91
LCSD 880-87038/3-A	Lab Control Sample Dup	99	94
MB 880-87038/1-A	Method Blank	155 S1+	152 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87082/5-A

Matrix: Solid

Analysis Batch: 87107

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/24 15:49	07/31/24 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/24 15:49	07/31/24 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/30/24 15:49	07/31/24 11:50	1
1,4-Difluorobenzene (Surr)	82		70 - 130	07/30/24 15:49	07/31/24 11:50	1

Lab Sample ID: LCS 880-87082/1-A

Matrix: Solid

Analysis Batch: 87107

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1191		mg/Kg		119	70 - 130
Toluene	0.100	0.1057		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1087		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2181		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1102		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-87082/2-A

Matrix: Solid

Analysis Batch: 87107

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1213		mg/Kg		121	70 - 130	2	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	2	35
Ethylbenzene	0.100	0.1100		mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2206		mg/Kg		110	70 - 130	1	35
o-Xylene	0.100	0.1114		mg/Kg		111	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-46655-1 MS

Matrix: Solid

Analysis Batch: 87107

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

Prep Type: Total/NA

Prep Batch: 87082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1238		mg/Kg		124	70 - 130
Toluene	<0.00202	U	0.100	0.1042		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-46655-1 MS
Matrix: Solid
Analysis Batch: 87107

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 87082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2044		mg/Kg		102	70 - 130
o-Xylene	<0.00202	U	0.100	0.1045		mg/Kg		105	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: 880-46655-1 MSD
Matrix: Solid
Analysis Batch: 87107

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 87082

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	0.1138		mg/Kg		114	70 - 130	8	35
Toluene	<0.00202	U	0.100	0.09384		mg/Kg		94	70 - 130	11	35
Ethylbenzene	<0.00202	U	0.100	0.08629		mg/Kg		86	70 - 130	17	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1711		mg/Kg		86	70 - 130	18	35
o-Xylene	<0.00202	U	0.100	0.08967		mg/Kg		90	70 - 130	15	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-87038/1-A
Matrix: Solid
Analysis Batch: 87137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87038

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		07/30/24 11:03	07/31/24 09:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/30/24 11:03	07/31/24 09:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/30/24 11:03	07/31/24 09:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	155	S1+	70 - 130						
o-Terphenyl	152	S1+	70 - 130						

Lab Sample ID: LCS 880-87038/2-A
Matrix: Solid
Analysis Batch: 87137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1139		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	887.8		mg/Kg		89	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-87038/2-A

Matrix: Solid

Analysis Batch: 87137

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87038

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-87038/3-A

Matrix: Solid

Analysis Batch: 87137

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87038

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1178		mg/Kg		118	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	988.5		mg/Kg		99	70 - 130	11	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-46655-6 MS

Matrix: Solid

Analysis Batch: 87137

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

Prep Type: Total/NA

Prep Batch: 87038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	996	1060		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U	996	854.6		mg/Kg		86	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-46655-6 MSD

Matrix: Solid

Analysis Batch: 87137

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

Prep Type: Total/NA

Prep Batch: 87038

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	996	1093		mg/Kg		110	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.6	U	996	862.8		mg/Kg		87	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	93		70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87079/1-A Matrix: Solid Analysis Batch: 87084										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			07/31/24 06:01	1		

Lab Sample ID: LCS 880-87079/2-A Matrix: Solid Analysis Batch: 87084										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.1		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-87079/3-A Matrix: Solid Analysis Batch: 87084										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	238.2		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-46637-A-6-C MS Matrix: Solid Analysis Batch: 87084										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	12700	F1	5040	19500	F1	mg/Kg		135	90 - 110		

Lab Sample ID: 880-46637-A-6-D MSD Matrix: Solid Analysis Batch: 87084										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	12700	F1	5040	19410	F1	mg/Kg		134	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 87082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46655-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-46655-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-46655-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-46655-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-46655-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-46655-6	H-6 (0-0.5')	Total/NA	Solid	5035	
MB 880-87082/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87082/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87082/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46655-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-46655-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 87107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46655-1	H-1 (0-0.5')	Total/NA	Solid	8021B	87082
880-46655-2	H-2 (0-0.5')	Total/NA	Solid	8021B	87082
880-46655-3	H-3 (0-0.5')	Total/NA	Solid	8021B	87082
880-46655-4	H-4 (0-0.5')	Total/NA	Solid	8021B	87082
880-46655-5	H-5 (0-0.5')	Total/NA	Solid	8021B	87082
880-46655-6	H-6 (0-0.5')	Total/NA	Solid	8021B	87082
MB 880-87082/5-A	Method Blank	Total/NA	Solid	8021B	87082
LCS 880-87082/1-A	Lab Control Sample	Total/NA	Solid	8021B	87082
LCSD 880-87082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87082
880-46655-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	87082
880-46655-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	87082

Analysis Batch: 87253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46655-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46655-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46655-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46655-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46655-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-46655-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46655-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46655-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46655-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46655-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46655-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46655-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-87038/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87038/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87038/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46655-6 MS	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-46655-6 MSD	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 87137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46655-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	87038
880-46655-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	87038
880-46655-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	87038
880-46655-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	87038
880-46655-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	87038
880-46655-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	87038
MB 880-87038/1-A	Method Blank	Total/NA	Solid	8015B NM	87038
LCS 880-87038/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87038
LCSD 880-87038/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87038
880-46655-6 MS	H-6 (0-0.5')	Total/NA	Solid	8015B NM	87038
880-46655-6 MSD	H-6 (0-0.5')	Total/NA	Solid	8015B NM	87038

Analysis Batch: 87268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46655-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-46655-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-46655-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-46655-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-46655-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-46655-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46655-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-46655-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-46655-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-46655-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-46655-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-46655-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-87079/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87079/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87079/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46637-A-6-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-46637-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 87084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46655-1	H-1 (0-0.5')	Soluble	Solid	300.0	87079
880-46655-2	H-2 (0-0.5')	Soluble	Solid	300.0	87079
880-46655-3	H-3 (0-0.5')	Soluble	Solid	300.0	87079
880-46655-4	H-4 (0-0.5')	Soluble	Solid	300.0	87079
880-46655-5	H-5 (0-0.5')	Soluble	Solid	300.0	87079
880-46655-6	H-6 (0-0.5')	Soluble	Solid	300.0	87079
MB 880-87079/1-A	Method Blank	Soluble	Solid	300.0	87079
LCS 880-87079/2-A	Lab Control Sample	Soluble	Solid	300.0	87079
LCSD 880-87079/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87079
880-46637-A-6-C MS	Matrix Spike	Soluble	Solid	300.0	87079
880-46637-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87079

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-1
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			4.95 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87253	07/31/24 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			87268	07/31/24 18:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 18:55	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 08:40	CH	EET MID

Client Sample ID: H-2 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-2
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			4.98 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87253	07/31/24 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			87268	07/31/24 19:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 19:11	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 08:48	CH	EET MID

Client Sample ID: H-3 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-3
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			5.01 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87253	07/31/24 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			87268	07/31/24 19:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 19:28	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 09:12	CH	EET MID

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-4
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			5.02 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87253	07/31/24 13:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-4
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			87268	07/31/24 19:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 19:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 09:20	CH	EET MID

Client Sample ID: H-5 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 13:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87253	07/31/24 13:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			87268	07/31/24 20:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 20:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 09:28	CH	EET MID

Client Sample ID: H-6 (0-0.5')
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 14:04

Lab Sample ID: 880-46655-6
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	87082	07/30/24 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87107	07/31/24 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87253	07/31/24 13:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			87268	07/31/24 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	87038	07/30/24 11:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87137	07/31/24 18:03	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87079	07/30/24 15:10	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87084	07/31/24 09:36	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Populus Fed (6.13.24)

Job ID: 880-46655-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46655-1	H-1 (0-0.5')	Solid	07/29/24 00:00	07/30/24 14:04
880-46655-2	H-2 (0-0.5')	Solid	07/29/24 00:00	07/30/24 14:04
880-46655-3	H-3 (0-0.5')	Solid	07/29/24 00:00	07/30/24 14:04
880-46655-4	H-4 (0-0.5')	Solid	07/29/24 00:00	07/30/24 14:04
880-46655-5	H-5 (0-0.5')	Solid	07/29/24 00:00	07/30/24 14:04
880-46655-6	H-6 (0-0.5')	Solid	07/29/24 00:00	07/30/24 14:04

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880-46655 Chain of Custody

Chain of Custody

Page 1 of 1

Work Order Comments

Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: _____

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

[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
<i>Febrey</i>	7-30-24 / 1400	<i>[Signature]</i>	7/30/24 1401

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- 14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-46655-1

SDG Number: Eddy County, New Mexico

Login Number: 46655

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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



Environment Testing

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- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/19/2024 5:53:52 PM

JOB DESCRIPTION

Populus Fed (06.13.24)
Eddy County, New Mexico

JOB NUMBER

880-47334-1

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
8/19/2024 5:53:52 PM

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

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Laboratory Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	19
QC Sample Results	21
QC Association Summary	27
Lab Chronicle	32
Certification Summary	37
Method Summary	38
Sample Summary	39
Chain of Custody	40
Receipt Checklists	42

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Populus Fed (06.13.24)

Job ID: 880-47334-1

Job ID: 880-47334-1

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Job Narrative
880-47334-1

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 8/16/2024 3:05 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 0.3°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (4.5') (880-47334-1), CS-2 (4.5') (880-47334-2), CS-3 (4.5') (880-47334-3), CS-4 (4.5') (880-47334-4), CS-5 (4.5') (880-47334-5), CS-6 (1.5') (880-47334-6), CS-7 (1.5') (880-47334-7), CS-8 (1.5') (880-47334-8), SW-1 (4.5') (880-47334-9), SW-2 (4.5') (880-47334-10), SW-3 (4.5') (880-47334-11), SW-4 (3.0') (880-47334-12), SW-5 (1.5') (880-47334-13), SW-6 (1.5') (880-47334-14) and SW-7 (1.5') (880-47334-15).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-88762 and analytical batch 880-88760 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-88797 and analytical batch 880-88804 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.

LCS sample was ran, but the actual data was not created, or cannot be found. MS(D) passes and is used to report batch.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-88798 and analytical batch 880-88805 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.

LCS sample was ran, but the actual data was not created, or cannot be found. MS(D) passes and is used to report batch

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 Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-88752 and analytical batch 880-88784 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.

The associated sample is: SW-7 (1.5') (880-47334-15).

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

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Case Narrative

Client: Carmona Resources
Project: Populus Fed (06.13.24)

Job ID: 880-47334-1

Job ID: 880-47334-1 (Continued)

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-1
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		08/17/24 11:23	08/18/24 00:49	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		08/17/24 11:23	08/18/24 00:49	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		08/17/24 11:23	08/18/24 00:49	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		08/17/24 11:23	08/18/24 00:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 00:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/24 11:23	08/18/24 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/17/24 11:23	08/18/24 00:49	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/17/24 11:23	08/18/24 00:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/18/24 00:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/19/24 15:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/19/24 08:00	08/19/24 15:35	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/19/24 08:00	08/19/24 15:35	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/19/24 08:00	08/19/24 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/19/24 08:00	08/19/24 15:35	1
o-Terphenyl	84		70 - 130				08/19/24 08:00	08/19/24 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			08/17/24 00:45	1

Client Sample ID: CS-2 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-2
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		08/17/24 11:23	08/18/24 01:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 01:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 01:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/17/24 11:23	08/18/24 01:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 01:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/17/24 11:23	08/18/24 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/17/24 11:23	08/18/24 01:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/17/24 11:23	08/18/24 01:09	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/18/24 01:09	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5		mg/Kg			08/19/24 15:53	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		08/19/24 08:00	08/19/24 15:53	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/19/24 08:00	08/19/24 15:53	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/19/24 08:00	08/19/24 15:53	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	78		70 - 130				08/19/24 08:00	08/19/24 15:53	1	
o-Terphenyl	70		70 - 130				08/19/24 08:00	08/19/24 15:53	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	25.4		4.97		mg/Kg			08/17/24 00:52	1	

Client Sample ID: CS-3 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-3
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		08/17/24 11:23	08/18/24 01:30	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 01:30	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 01:30	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/17/24 11:23	08/18/24 01:30	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 01:30	1	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/17/24 11:23	08/18/24 01:30	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	114		70 - 130				08/17/24 11:23	08/18/24 01:30	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				08/17/24 11:23	08/18/24 01:30	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/18/24 01:30	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			08/19/24 16:11	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		08/19/24 08:00	08/19/24 16:11	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/24 08:00	08/19/24 16:11	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (4.5')

Lab Sample ID: 880-47334-3

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/24 08:00	08/19/24 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/19/24 08:00	08/19/24 16:11	1
o-Terphenyl	72		70 - 130				08/19/24 08:00	08/19/24 16:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			08/17/24 00:58	1

Client Sample ID: CS-4 (4.5')

Lab Sample ID: 880-47334-4

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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		08/17/24 11:23	08/18/24 01:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/17/24 11:23	08/18/24 01:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/17/24 11:23	08/18/24 01:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/17/24 11:23	08/18/24 01:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/17/24 11:23	08/18/24 01:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/17/24 11:23	08/18/24 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/17/24 11:23	08/18/24 01:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/17/24 11:23	08/18/24 01:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/18/24 01:50	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			08/19/24 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/19/24 08:00	08/19/24 16:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/19/24 08:00	08/19/24 16:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/19/24 08:00	08/19/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/19/24 08:00	08/19/24 16:29	1
o-Terphenyl	75		70 - 130				08/19/24 08:00	08/19/24 16:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			08/17/24 01:04	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-5 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-5
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		08/17/24 11:23	08/18/24 02:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/17/24 11:23	08/18/24 02:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/17/24 11:23	08/18/24 02:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/17/24 11:23	08/18/24 02:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/17/24 11:23	08/18/24 02:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/17/24 11:23	08/18/24 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/17/24 11:23	08/18/24 02:11	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/17/24 11:23	08/18/24 02:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/18/24 02:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			08/19/24 15:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/19/24 08:00	08/19/24 15:53	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/19/24 08:00	08/19/24 15:53	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/19/24 08:00	08/19/24 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/19/24 08:00	08/19/24 15:53	1
o-Terphenyl	89		70 - 130				08/19/24 08:00	08/19/24 15:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			08/17/24 01:22	1

Client Sample ID: CS-6 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-6
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		08/17/24 11:23	08/18/24 02:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 02:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 02:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/17/24 11:23	08/18/24 02:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 02:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/24 11:23	08/18/24 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/17/24 11:23	08/18/24 02:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/17/24 11:23	08/18/24 02:31	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-6 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-6
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			08/18/24 02:31	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			08/19/24 16:11	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		08/19/24 08:00	08/19/24 16:11	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/24 08:00	08/19/24 16:11	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/24 08:00	08/19/24 16:11	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	93		70 - 130				08/19/24 08:00	08/19/24 16:11	1	
o-Terphenyl	91		70 - 130				08/19/24 08:00	08/19/24 16:11	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	5.22		5.02		mg/Kg			08/17/24 01:28	1	

Client Sample ID: CS-7 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-7
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		08/17/24 11:23	08/18/24 02:52	1	
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 02:52	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 02:52	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/17/24 11:23	08/18/24 02:52	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 02:52	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/24 11:23	08/18/24 02:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	114		70 - 130				08/17/24 11:23	08/18/24 02:52	1	
1,4-Difluorobenzene (Surr)	101		70 - 130				08/17/24 11:23	08/18/24 02:52	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			08/18/24 02:52	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			08/19/24 16:29	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/19/24 08:00	08/19/24 16:29	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/19/24 08:00	08/19/24 16:29	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/19/24 08:00	08/19/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/19/24 08:00	08/19/24 16:29	1
o-Terphenyl	95		70 - 130				08/19/24 08:00	08/19/24 16:29	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			08/17/24 01:46	1

Client Sample ID: CS-8 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-8
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		08/17/24 11:23	08/18/24 03:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 03:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 03:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/17/24 11:23	08/18/24 03:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 03:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/17/24 11:23	08/18/24 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/17/24 11:23	08/18/24 03:12	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/17/24 11:23	08/18/24 03:12	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			08/18/24 03:12	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			08/19/24 17:02	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/19/24 08:00	08/19/24 17:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/24 08:00	08/19/24 17:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/24 08:00	08/19/24 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				08/19/24 08:00	08/19/24 17:02	1
o-Terphenyl	97		70 - 130				08/19/24 08:00	08/19/24 17:02	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			08/17/24 01:52	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (4.5')

Lab Sample ID: 880-47334-9

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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		08/17/24 11:23	08/18/24 03:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 03:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 03:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/17/24 11:23	08/18/24 03:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/17/24 11:23	08/18/24 03:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/17/24 11:23	08/18/24 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/17/24 11:23	08/18/24 03:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/17/24 11:23	08/18/24 03:32	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			08/18/24 03:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/19/24 13:33	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		08/19/24 08:00	08/19/24 13:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/19/24 08:00	08/19/24 13:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/19/24 08:00	08/19/24 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/19/24 08:00	08/19/24 13:33	1
o-Terphenyl	78		70 - 130				08/19/24 08:00	08/19/24 13:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.1		4.99		mg/Kg			08/17/24 01:58	1

Client Sample ID: SW-2 (4.5')

Lab Sample ID: 880-47334-10

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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		08/17/24 11:23	08/18/24 03:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/17/24 11:23	08/18/24 03:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/17/24 11:23	08/18/24 03:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/17/24 11:23	08/18/24 03:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/17/24 11:23	08/18/24 03:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/17/24 11:23	08/18/24 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/17/24 11:23	08/18/24 03:53	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/17/24 11:23	08/18/24 03:53	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (4.5')

Lab Sample ID: 880-47334-10

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			08/18/24 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			08/19/24 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/19/24 08:00	08/19/24 14:27	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/19/24 08:00	08/19/24 14:27	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/19/24 08:00	08/19/24 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/19/24 08:00	08/19/24 14:27	1
o-Terphenyl	78		70 - 130				08/19/24 08:00	08/19/24 14:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/17/24 02:04	1

Client Sample ID: SW-3 (4.5')

Lab Sample ID: 880-47334-11

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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		08/17/24 11:23	08/18/24 05:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/17/24 11:23	08/18/24 05:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/17/24 11:23	08/18/24 05:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/17/24 11:23	08/18/24 05:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/17/24 11:23	08/18/24 05:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/17/24 11:23	08/18/24 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/17/24 11:23	08/18/24 05:15	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/17/24 11:23	08/18/24 05:15	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			08/18/24 05:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/19/24 14:45	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	<49.9	U	49.9		mg/Kg		08/19/24 10:34	08/19/24 14:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/24 10:34	08/19/24 14:45	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (4.5')

Lab Sample ID: 880-47334-11

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/24 10:34	08/19/24 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/19/24 10:34	08/19/24 14:45	1
o-Terphenyl	81		70 - 130				08/19/24 10:34	08/19/24 14:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			08/17/24 02:10	1

Client Sample ID: SW-4 (3.0')

Lab Sample ID: 880-47334-12

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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		08/17/24 11:23	08/18/24 05:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 05:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 05:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/17/24 11:23	08/18/24 05:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 05:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/17/24 11:23	08/18/24 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/17/24 11:23	08/18/24 05:36	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/17/24 11:23	08/18/24 05:36	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			08/18/24 05:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/19/24 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/19/24 08:00	08/19/24 15:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/19/24 08:00	08/19/24 15:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/19/24 08:00	08/19/24 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				08/19/24 08:00	08/19/24 15:03	1
o-Terphenyl	71		70 - 130				08/19/24 08:00	08/19/24 15:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			08/17/24 02:16	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-13
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		08/17/24 11:23	08/18/24 05:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 05:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 05:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/17/24 11:23	08/18/24 05:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 05:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/17/24 11:23	08/18/24 05:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/17/24 11:23	08/18/24 05:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/17/24 11:23	08/18/24 05:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/18/24 05:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			08/19/24 13:33	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	<49.5	U	49.5		mg/Kg		08/19/24 10:35	08/19/24 13:33	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		08/19/24 10:35	08/19/24 13:33	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/19/24 10:35	08/19/24 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/19/24 10:35	08/19/24 13:33	1
o-Terphenyl	89		70 - 130				08/19/24 10:35	08/19/24 13:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		5.04		mg/Kg			08/17/24 02:22	1

Client Sample ID: SW-6 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-14
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		08/17/24 11:23	08/18/24 06:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 06:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 06:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/17/24 11:23	08/18/24 06:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 06:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/17/24 11:23	08/18/24 06:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/17/24 11:23	08/18/24 06:17	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/17/24 11:23	08/18/24 06:17	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-6 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-14
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			08/18/24 06:17	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.4	U	50.4		mg/Kg			08/19/24 14:27	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/19/24 10:35	08/19/24 14:27	1	
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/19/24 10:35	08/19/24 14:27	1	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/19/24 10:35	08/19/24 14:27	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	92		70 - 130				08/19/24 10:35	08/19/24 14:27	1	
o-Terphenyl	89		70 - 130				08/19/24 10:35	08/19/24 14:27	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.05	U	5.05		mg/Kg			08/19/24 10:28	1	

Client Sample ID: SW-7 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-15
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		08/17/24 11:23	08/18/24 06:37	1	
Toluene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 06:37	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 06:37	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/17/24 11:23	08/18/24 06:37	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/17/24 11:23	08/18/24 06:37	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/17/24 11:23	08/18/24 06:37	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	111		70 - 130				08/17/24 11:23	08/18/24 06:37	1	
1,4-Difluorobenzene (Surr)	100		70 - 130				08/17/24 11:23	08/18/24 06:37	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			08/18/24 06:37	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5		mg/Kg			08/19/24 14:45	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/19/24 10:35	08/19/24 14:45	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		08/19/24 10:35	08/19/24 14:45	1	

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-7 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-15
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/19/24 10:35	08/19/24 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/19/24 10:35	08/19/24 14:45	1
o-Terphenyl	94		70 - 130				08/19/24 10:35	08/19/24 14:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			08/19/24 10:50	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-47334-1	CS-1 (4.5')	113	101				
880-47334-1 MS	CS-1 (4.5')	98	102				
880-47334-1 MSD	CS-1 (4.5')	101	102				
880-47334-2	CS-2 (4.5')	110	100				
880-47334-3	CS-3 (4.5')	114	100				
880-47334-4	CS-4 (4.5')	113	95				
880-47334-5	CS-5 (4.5')	114	101				
880-47334-6	CS-6 (1.5')	112	101				
880-47334-7	CS-7 (1.5')	114	101				
880-47334-8	CS-8 (1.5')	111	99				
880-47334-9	SW-1 (4.5')	114	99				
880-47334-10	SW-2 (4.5')	110	99				
880-47334-11	SW-3 (4.5')	109	97				
880-47334-12	SW-4 (3.0')	113	95				
880-47334-13	SW-5 (1.5')	108	103				
880-47334-14	SW-6 (1.5')	113	100				
880-47334-15	SW-7 (1.5')	111	100				
LCS 880-88762/1-A	Lab Control Sample	95	103				
LCSD 880-88762/2-A	Lab Control Sample Dup	103	102				
MB 880-88633/5-A	Method Blank	102	91				
MB 880-88762/5-A	Method Blank	102	90				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-47334-1	CS-1 (4.5')	95	84				
880-47334-2	CS-2 (4.5')	78	70				
880-47334-3	CS-3 (4.5')	80	72				
880-47334-4	CS-4 (4.5')	83	75				
880-47334-5	CS-5 (4.5')	92	89				
880-47334-6	CS-6 (1.5')	93	91				
880-47334-7	CS-7 (1.5')	99	95				
880-47334-8	CS-8 (1.5')	100	97				
880-47334-9	SW-1 (4.5')	89	78				
880-47334-9 MS	SW-1 (4.5')	85	83				
880-47334-9 MSD	SW-1 (4.5')	105	84				
880-47334-10	SW-2 (4.5')	85	78				
880-47334-11	SW-3 (4.5')	89	81				
880-47334-12	SW-4 (3.0')	78	71				
880-47334-13	SW-5 (1.5')	91	89				
880-47334-13 MS	SW-5 (1.5')	91	100				
880-47334-13 MSD	SW-5 (1.5')	107	99				
880-47334-14	SW-6 (1.5')	92	89				

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Surrogate Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)				
880-47334-15	SW-7 (1.5')	97	94				
MB 880-88797/1-A	Method Blank	79	73				
MB 880-88798/1-A	Method Blank	86	90				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
LCSD 880-88797/3-A	Lab Control Sample Dup						
LCSD 880-88798/3-A	Lab Control Sample Dup						
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88633/5-A							Client Sample ID: Method Blank				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 88760							Prep Batch: 88633				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200		mg/Kg		08/16/24 11:24	08/17/24 13:51	1		
Toluene	<0.00200	U	0.00200		mg/Kg		08/16/24 11:24	08/17/24 13:51	1		
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/16/24 11:24	08/17/24 13:51	1		
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/16/24 11:24	08/17/24 13:51	1		
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/16/24 11:24	08/17/24 13:51	1		
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/16/24 11:24	08/17/24 13:51	1		
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	102		70 - 130				08/16/24 11:24	08/17/24 13:51	1		
1,4-Difluorobenzene (Surr)	91		70 - 130				08/16/24 11:24	08/17/24 13:51	1		

Lab Sample ID: MB 880-88762/5-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88760							Prep Batch: 88762			
	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 00:27	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 00:27	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 00:27	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/17/24 11:23	08/18/24 00:27	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/17/24 11:23	08/18/24 00:27	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/17/24 11:23	08/18/24 00:27	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		70 - 130				08/17/24 11:23	08/18/24 00:27	1	
1,4-Difluorobenzene (Surr)	90		70 - 130				08/17/24 11:23	08/18/24 00:27	1	

Lab Sample ID: LCS 880-88762/1-A						Client Sample ID: Lab Control Sample						
Matrix: Solid						Prep Type: Total/NA						
Analysis Batch: 88760						Prep Batch: 88762						
Analyte	Spike		LCS	LCS	Unit	D	%Rec	%Rec	Limits			
	Added		Result	Qualifier								
	Benzene		0.100	0.1085						mg/Kg	108	70 - 130
	Toluene		0.100	0.1014						mg/Kg	101	70 - 130
	Ethylbenzene		0.100	0.1035						mg/Kg	104	70 - 130
	m-Xylene & p-Xylene		0.200	0.2085						mg/Kg	104	70 - 130
	o-Xylene		0.100	0.1074						mg/Kg	107	70 - 130
LCS		LCS										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	95		70 - 130									
1,4-Difluorobenzene (Surr)	103		70 - 130									

Lab Sample ID: LCSD 880-88762/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88760							Prep Batch: 88762			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1068		mg/Kg		107	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-88762/2-A
Matrix: Solid
Analysis Batch: 88760

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88762

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added		Result	Qualifier				Limits	RPD	
Toluene	0.100		0.09858		mg/Kg		99	70 - 130	3	35
Ethylbenzene	0.100		0.1002		mg/Kg		100	70 - 130	3	35
m-Xylene & p-Xylene	0.200		0.2018		mg/Kg		101	70 - 130	3	35
o-Xylene	0.100		0.1042		mg/Kg		104	70 - 130	3	35
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	103		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: 880-47334-1 MS
Matrix: Solid
Analysis Batch: 88760

Client Sample ID: CS-1 (4.5')
Prep Type: Total/NA
Prep Batch: 88762

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Benzene	<0.00199	U	0.0996	0.07741		mg/Kg		78	70 - 130	
Toluene	<0.00199	U F1	0.0996	0.06833	F1	mg/Kg		69	70 - 130	
Ethylbenzene	<0.00199	U F1	0.0996	0.06910	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1372	F1	mg/Kg		69	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.07091		mg/Kg		71	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	98		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: 880-47334-1 MSD
Matrix: Solid
Analysis Batch: 88760

Client Sample ID: CS-1 (4.5')
Prep Type: Total/NA
Prep Batch: 88762

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	
Benzene	<0.00199	U	0.0990	0.09579		mg/Kg		97	70 - 130	21	35
Toluene	<0.00199	U F1	0.0990	0.08507		mg/Kg		86	70 - 130	22	35
Ethylbenzene	<0.00199	U F1	0.0990	0.08442		mg/Kg		85	70 - 130	20	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.1671		mg/Kg		84	70 - 130	20	35
o-Xylene	<0.00199	U	0.0990	0.08498		mg/Kg		86	70 - 130	18	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-88797/1-A
Matrix: Solid
Analysis Batch: 88804

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88797

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/19/24 08:00	08/19/24 10:12	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-88797/1-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88804							Prep Batch: 88797		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/24 08:00	08/19/24 10:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/24 08:00	08/19/24 10:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				08/19/24 08:00	08/19/24 10:12	1
o-Terphenyl	73		70 - 130				08/19/24 08:00	08/19/24 10:12	1

Lab Sample ID: LCSD 880-88797/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 88804						Prep Batch: 88797					
			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	832.0		mg/Kg					
Diesel Range Organics (Over C10-C28)			1000	1180		mg/Kg					
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane											
o-Terphenyl											

Lab Sample ID: 880-47334-9 MS							Client Sample ID: SW-1 (4.5')				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 88804							Prep Batch: 88797				
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	760.0		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	793.7		mg/Kg		79	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	85		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: 880-47334-9 MSD							Client Sample ID: SW-1 (4.5')				
Matrix: Solid							Prep Type: Total/NA				
Analysis Batch: 88804							Prep Batch: 88797				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	763.3		mg/Kg		76	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	760.4		mg/Kg		76	70 - 130	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	84		70 - 130								

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-88798/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88805							Prep Batch: 88798			
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		08/19/24 08:00	08/19/24 10:12	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/24 08:00	08/19/24 10:12	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/24 08:00	08/19/24 10:12	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	86		70 - 130				08/19/24 08:00	08/19/24 10:12	1	
o-Terphenyl	90		70 - 130				08/19/24 08:00	08/19/24 10:12	1	

Lab Sample ID: LCSD 880-88798/3-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88805							Prep Batch: 88798			
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	800.0		mg/Kg				
Diesel Range Organics (Over C10-C28)			1000	1477		mg/Kg				
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
1-Chlorooctane										
o-Terphenyl										

Lab Sample ID: 880-47334-13 MS							Client Sample ID: SW-5 (1.5')			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88805							Prep Batch: 88798			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1000	787.2		mg/Kg		79	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.5	U	1000	982.6		mg/Kg		98	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane	91		70 - 130							
o-Terphenyl	100		70 - 130							

Lab Sample ID: 880-47334-13 MSD							Client Sample ID: SW-5 (1.5')			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88805							Prep Batch: 88798			
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	1010	768.0		mg/Kg		76	70 - 130	2 20
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	911.1		mg/Kg		90	70 - 130	8 20

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47334-13 MSD				Client Sample ID: SW-5 (1.5')			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 88805				Prep Batch: 88798			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	107		70 - 130				
o-Terphenyl	99		70 - 130				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88680/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Soluble			
Analysis Batch: 88701									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/16/24 23:21	1

Lab Sample ID: LCS 880-88680/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Soluble			
Analysis Batch: 88701									
			Spike	LCS	LCS			%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride			250	245.5		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-88680/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 88701											
				Spike	LCSD	LCSD			%Rec	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Chloride				250	246.3		mg/Kg		99	90 - 110	0
											20

Lab Sample ID: 880-47334-4 MS							Client Sample ID: CS-4 (4.5')			
Matrix: Solid							Prep Type: Soluble			
Analysis Batch: 88701										
	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<4.98	U	249	235.8		mg/Kg		93	90 - 110	

Lab Sample ID: 880-47334-4 MSD								Client Sample ID: CS-4 (4.5')			
Matrix: Solid								Prep Type: Soluble			
Analysis Batch: 88701											
	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limits
Chloride	<4.98	U	249	236.1		mg/Kg		93	90 - 110	0	20

Lab Sample ID: MB 880-88752/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Soluble			
Analysis Batch: 88784									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/19/24 10:06	1

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-88752/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 88784											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	239.3		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-88752/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 88784											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	233.6		mg/Kg		93	90 - 110	2	20

Lab Sample ID: 880-47334-14 MS				Client Sample ID: SW-6 (1.5')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 88784											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<5.05	U	253	231.7		mg/Kg		91	90 - 110		

Lab Sample ID: 880-47334-14 MSD				Client Sample ID: SW-6 (1.5')							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 88784											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.05	U	253	232.7		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 88633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-88633/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 88760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-1	CS-1 (4.5')	Total/NA	Solid	8021B	88762
880-47334-2	CS-2 (4.5')	Total/NA	Solid	8021B	88762
880-47334-3	CS-3 (4.5')	Total/NA	Solid	8021B	88762
880-47334-4	CS-4 (4.5')	Total/NA	Solid	8021B	88762
880-47334-5	CS-5 (4.5')	Total/NA	Solid	8021B	88762
880-47334-6	CS-6 (1.5')	Total/NA	Solid	8021B	88762
880-47334-7	CS-7 (1.5')	Total/NA	Solid	8021B	88762
880-47334-8	CS-8 (1.5')	Total/NA	Solid	8021B	88762
880-47334-9	SW-1 (4.5')	Total/NA	Solid	8021B	88762
880-47334-10	SW-2 (4.5')	Total/NA	Solid	8021B	88762
880-47334-11	SW-3 (4.5')	Total/NA	Solid	8021B	88762
880-47334-12	SW-4 (3.0')	Total/NA	Solid	8021B	88762
880-47334-13	SW-5 (1.5')	Total/NA	Solid	8021B	88762
880-47334-14	SW-6 (1.5')	Total/NA	Solid	8021B	88762
880-47334-15	SW-7 (1.5')	Total/NA	Solid	8021B	88762
MB 880-88633/5-A	Method Blank	Total/NA	Solid	8021B	88633
MB 880-88762/5-A	Method Blank	Total/NA	Solid	8021B	88762
LCS 880-88762/1-A	Lab Control Sample	Total/NA	Solid	8021B	88762
LCSD 880-88762/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88762
880-47334-1 MS	CS-1 (4.5')	Total/NA	Solid	8021B	88762
880-47334-1 MSD	CS-1 (4.5')	Total/NA	Solid	8021B	88762

Prep Batch: 88762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-1	CS-1 (4.5')	Total/NA	Solid	5035	
880-47334-2	CS-2 (4.5')	Total/NA	Solid	5035	
880-47334-3	CS-3 (4.5')	Total/NA	Solid	5035	
880-47334-4	CS-4 (4.5')	Total/NA	Solid	5035	
880-47334-5	CS-5 (4.5')	Total/NA	Solid	5035	
880-47334-6	CS-6 (1.5')	Total/NA	Solid	5035	
880-47334-7	CS-7 (1.5')	Total/NA	Solid	5035	
880-47334-8	CS-8 (1.5')	Total/NA	Solid	5035	
880-47334-9	SW-1 (4.5')	Total/NA	Solid	5035	
880-47334-10	SW-2 (4.5')	Total/NA	Solid	5035	
880-47334-11	SW-3 (4.5')	Total/NA	Solid	5035	
880-47334-12	SW-4 (3.0')	Total/NA	Solid	5035	
880-47334-13	SW-5 (1.5')	Total/NA	Solid	5035	
880-47334-14	SW-6 (1.5')	Total/NA	Solid	5035	
880-47334-15	SW-7 (1.5')	Total/NA	Solid	5035	
MB 880-88762/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88762/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88762/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47334-1 MS	CS-1 (4.5')	Total/NA	Solid	5035	
880-47334-1 MSD	CS-1 (4.5')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 88816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-1	CS-1 (4.5')	Total/NA	Solid	Total BTEX	
880-47334-2	CS-2 (4.5')	Total/NA	Solid	Total BTEX	
880-47334-3	CS-3 (4.5')	Total/NA	Solid	Total BTEX	
880-47334-4	CS-4 (4.5')	Total/NA	Solid	Total BTEX	
880-47334-5	CS-5 (4.5')	Total/NA	Solid	Total BTEX	
880-47334-6	CS-6 (1.5')	Total/NA	Solid	Total BTEX	
880-47334-7	CS-7 (1.5')	Total/NA	Solid	Total BTEX	
880-47334-8	CS-8 (1.5')	Total/NA	Solid	Total BTEX	
880-47334-9	SW-1 (4.5')	Total/NA	Solid	Total BTEX	
880-47334-10	SW-2 (4.5')	Total/NA	Solid	Total BTEX	
880-47334-11	SW-3 (4.5')	Total/NA	Solid	Total BTEX	
880-47334-12	SW-4 (3.0')	Total/NA	Solid	Total BTEX	
880-47334-13	SW-5 (1.5')	Total/NA	Solid	Total BTEX	
880-47334-14	SW-6 (1.5')	Total/NA	Solid	Total BTEX	
880-47334-15	SW-7 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 88797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-1	CS-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-2	CS-2 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-3	CS-3 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-4	CS-4 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-9	SW-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-10	SW-2 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-11	SW-3 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-12	SW-4 (3.0')	Total/NA	Solid	8015NM Prep	
MB 880-88797/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCSD 880-88797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47334-9 MS	SW-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-9 MSD	SW-1 (4.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 88798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-5	CS-5 (4.5')	Total/NA	Solid	8015NM Prep	
880-47334-6	CS-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-47334-7	CS-7 (1.5')	Total/NA	Solid	8015NM Prep	
880-47334-8	CS-8 (1.5')	Total/NA	Solid	8015NM Prep	
880-47334-13	SW-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-47334-14	SW-6 (1.5')	Total/NA	Solid	8015NM Prep	
880-47334-15	SW-7 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-88798/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCSD 880-88798/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47334-13 MS	SW-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-47334-13 MSD	SW-5 (1.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-1	CS-1 (4.5')	Total/NA	Solid	8015B NM	88797
880-47334-2	CS-2 (4.5')	Total/NA	Solid	8015B NM	88797

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QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 88804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-3	CS-3 (4.5')	Total/NA	Solid	8015B NM	88797
880-47334-4	CS-4 (4.5')	Total/NA	Solid	8015B NM	88797
880-47334-9	SW-1 (4.5')	Total/NA	Solid	8015B NM	88797
880-47334-10	SW-2 (4.5')	Total/NA	Solid	8015B NM	88797
880-47334-11	SW-3 (4.5')	Total/NA	Solid	8015B NM	88797
880-47334-12	SW-4 (3.0')	Total/NA	Solid	8015B NM	88797
MB 880-88797/1-A	Method Blank	Total/NA	Solid	8015B NM	88797
LCSD 880-88797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88797
880-47334-9 MS	SW-1 (4.5')	Total/NA	Solid	8015B NM	88797
880-47334-9 MSD	SW-1 (4.5')	Total/NA	Solid	8015B NM	88797

Analysis Batch: 88805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-5	CS-5 (4.5')	Total/NA	Solid	8015B NM	88798
880-47334-6	CS-6 (1.5')	Total/NA	Solid	8015B NM	88798
880-47334-7	CS-7 (1.5')	Total/NA	Solid	8015B NM	88798
880-47334-8	CS-8 (1.5')	Total/NA	Solid	8015B NM	88798
880-47334-13	SW-5 (1.5')	Total/NA	Solid	8015B NM	88798
880-47334-14	SW-6 (1.5')	Total/NA	Solid	8015B NM	88798
880-47334-15	SW-7 (1.5')	Total/NA	Solid	8015B NM	88798
MB 880-88798/1-A	Method Blank	Total/NA	Solid	8015B NM	88798
LCSD 880-88798/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88798
880-47334-13 MS	SW-5 (1.5')	Total/NA	Solid	8015B NM	88798
880-47334-13 MSD	SW-5 (1.5')	Total/NA	Solid	8015B NM	88798

Analysis Batch: 88878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-1	CS-1 (4.5')	Total/NA	Solid	8015 NM	
880-47334-2	CS-2 (4.5')	Total/NA	Solid	8015 NM	
880-47334-3	CS-3 (4.5')	Total/NA	Solid	8015 NM	
880-47334-4	CS-4 (4.5')	Total/NA	Solid	8015 NM	
880-47334-5	CS-5 (4.5')	Total/NA	Solid	8015 NM	
880-47334-6	CS-6 (1.5')	Total/NA	Solid	8015 NM	
880-47334-7	CS-7 (1.5')	Total/NA	Solid	8015 NM	
880-47334-8	CS-8 (1.5')	Total/NA	Solid	8015 NM	
880-47334-9	SW-1 (4.5')	Total/NA	Solid	8015 NM	
880-47334-10	SW-2 (4.5')	Total/NA	Solid	8015 NM	
880-47334-11	SW-3 (4.5')	Total/NA	Solid	8015 NM	
880-47334-12	SW-4 (3.0')	Total/NA	Solid	8015 NM	
880-47334-13	SW-5 (1.5')	Total/NA	Solid	8015 NM	
880-47334-14	SW-6 (1.5')	Total/NA	Solid	8015 NM	
880-47334-15	SW-7 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 88680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-1	CS-1 (4.5')	Soluble	Solid	DI Leach	
880-47334-2	CS-2 (4.5')	Soluble	Solid	DI Leach	
880-47334-3	CS-3 (4.5')	Soluble	Solid	DI Leach	
880-47334-4	CS-4 (4.5')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 88680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-5	CS-5 (4.5')	Soluble	Solid	DI Leach	
880-47334-6	CS-6 (1.5')	Soluble	Solid	DI Leach	
880-47334-7	CS-7 (1.5')	Soluble	Solid	DI Leach	
880-47334-8	CS-8 (1.5')	Soluble	Solid	DI Leach	
880-47334-9	SW-1 (4.5')	Soluble	Solid	DI Leach	
880-47334-10	SW-2 (4.5')	Soluble	Solid	DI Leach	
880-47334-11	SW-3 (4.5')	Soluble	Solid	DI Leach	
880-47334-12	SW-4 (3.0')	Soluble	Solid	DI Leach	
880-47334-13	SW-5 (1.5')	Soluble	Solid	DI Leach	
MB 880-88680/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88680/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88680/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47334-4 MS	CS-4 (4.5')	Soluble	Solid	DI Leach	
880-47334-4 MSD	CS-4 (4.5')	Soluble	Solid	DI Leach	

Analysis Batch: 88701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-1	CS-1 (4.5')	Soluble	Solid	300.0	88680
880-47334-2	CS-2 (4.5')	Soluble	Solid	300.0	88680
880-47334-3	CS-3 (4.5')	Soluble	Solid	300.0	88680
880-47334-4	CS-4 (4.5')	Soluble	Solid	300.0	88680
880-47334-5	CS-5 (4.5')	Soluble	Solid	300.0	88680
880-47334-6	CS-6 (1.5')	Soluble	Solid	300.0	88680
880-47334-7	CS-7 (1.5')	Soluble	Solid	300.0	88680
880-47334-8	CS-8 (1.5')	Soluble	Solid	300.0	88680
880-47334-9	SW-1 (4.5')	Soluble	Solid	300.0	88680
880-47334-10	SW-2 (4.5')	Soluble	Solid	300.0	88680
880-47334-11	SW-3 (4.5')	Soluble	Solid	300.0	88680
880-47334-12	SW-4 (3.0')	Soluble	Solid	300.0	88680
880-47334-13	SW-5 (1.5')	Soluble	Solid	300.0	88680
MB 880-88680/1-A	Method Blank	Soluble	Solid	300.0	88680
LCS 880-88680/2-A	Lab Control Sample	Soluble	Solid	300.0	88680
LCSD 880-88680/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88680
880-47334-4 MS	CS-4 (4.5')	Soluble	Solid	300.0	88680
880-47334-4 MSD	CS-4 (4.5')	Soluble	Solid	300.0	88680

Leach Batch: 88752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-14	SW-6 (1.5')	Soluble	Solid	DI Leach	
880-47334-15	SW-7 (1.5')	Soluble	Solid	DI Leach	
MB 880-88752/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88752/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88752/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47334-14 MS	SW-6 (1.5')	Soluble	Solid	DI Leach	
880-47334-14 MSD	SW-6 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 88784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47334-14	SW-6 (1.5')	Soluble	Solid	300.0	88752
880-47334-15	SW-7 (1.5')	Soluble	Solid	300.0	88752
MB 880-88752/1-A	Method Blank	Soluble	Solid	300.0	88752

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 88784 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-88752/2-A	Lab Control Sample	Soluble	Solid	300.0	88752
LCSD 880-88752/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88752
880-47334-14 MS	SW-6 (1.5')	Soluble	Solid	300.0	88752
880-47334-14 MSD	SW-6 (1.5')	Soluble	Solid	300.0	88752

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

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 00:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	88797	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88804	08/19/24 15:35	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 00:45	SMC	EET MID

Client Sample ID: CS-2 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 01:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 15:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88797	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88804	08/19/24 15:53	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 00:52	SMC	EET MID

Client Sample ID: CS-3 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 01:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 16:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	88797	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88804	08/19/24 16:11	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 00:58	SMC	EET MID

Client Sample ID: CS-4 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 01:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 01:50	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-4
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			88878	08/19/24 16:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	88797	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88804	08/19/24 16:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 01:04	SMC	EET MID

Client Sample ID: CS-5 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 02:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 02:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 15:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	88798	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88805	08/19/24 15:53	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 01:22	SMC	EET MID

Client Sample ID: CS-6 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-6
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			5.02 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 02:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 16:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	88798	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88805	08/19/24 16:11	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 01:28	SMC	EET MID

Client Sample ID: CS-7 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 02:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 02:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 16:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	88798	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88805	08/19/24 16:29	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (1.5')

Lab Sample ID: 880-47334-7

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 01:46	SMC	EET MID

Client Sample ID: CS-8 (1.5')

Lab Sample ID: 880-47334-8

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 03:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	88798	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88805	08/19/24 17:02	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 01:52	SMC	EET MID

Client Sample ID: SW-1 (4.5')

Lab Sample ID: 880-47334-9

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

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	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 03:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	88797	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88804	08/19/24 13:33	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 01:58	SMC	EET MID

Client Sample ID: SW-2 (4.5')

Lab Sample ID: 880-47334-10

Date Collected: 08/15/24 00:00

Matrix: Solid

Date Received: 08/16/24 15:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 03:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 03:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88797	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88804	08/19/24 14:27	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 02:04	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (4.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-11
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			5.05 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 05:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 05:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	88797	08/19/24 10:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88804	08/19/24 14:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 02:10	SMC	EET MID

Client Sample ID: SW-4 (3.0')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 05:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 05:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 15:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	88797	08/19/24 08:00	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88804	08/19/24 15:03	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 02:16	SMC	EET MID

Client Sample ID: SW-5 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-13
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			4.99 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 05:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 05:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 13:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	88798	08/19/24 10:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88805	08/19/24 13:33	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88680	08/16/24 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88701	08/17/24 02:22	SMC	EET MID

Client Sample ID: SW-6 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-14
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			4.97 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 06:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 06:17	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-6 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-14
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			88878	08/19/24 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	88798	08/19/24 10:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88805	08/19/24 14:27	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88752	08/17/24 09:18	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88784	08/19/24 10:28	SMC	EET MID

Client Sample ID: SW-7 (1.5')
Date Collected: 08/15/24 00:00
Date Received: 08/16/24 15:05

Lab Sample ID: 880-47334-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88762	08/17/24 11:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88760	08/18/24 06:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88816	08/18/24 06:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			88878	08/19/24 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	88798	08/19/24 10:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88805	08/19/24 14:45	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88752	08/17/24 09:18	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88784	08/19/24 10:50	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 14

Method Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47334-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47334-1	CS-1 (4.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-2	CS-2 (4.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-3	CS-3 (4.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-4	CS-4 (4.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-5	CS-5 (4.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-6	CS-6 (1.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-7	CS-7 (1.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-8	CS-8 (1.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-9	SW-1 (4.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-10	SW-2 (4.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-11	SW-3 (4.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-12	SW-4 (3.0')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-13	SW-5 (1.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-14	SW-6 (1.5')	Solid	08/15/24 00:00	08/16/24 15:05
880-47334-15	SW-7 (1.5')	Solid	08/15/24 00:00	08/16/24 15:05

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- 12
- 13
- 14

Chain of Custody



880-47334 Chain of Custody

Page 1 of 2

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

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

Project Name:	Populus Fed (06.13.24)	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2462	☐ Routine	☒ Rush														None: NO	DI Water: H ₂ O		
Project Location:	Eddy County, New Mexico	Due Date:	24 HR														Cool: Cool	MeOH: Me		
Sampler's Name:	IR																HCL: HC	HNO ₃ : HN		
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No											H ₃ PO ₄ : HP			
Received Intact:	Thermometer ID:	Yes	No														NaHSO ₄ : NABIS			
Cooler Custody Seals:	Correction Factor:	Yes	No														Na ₂ S ₂ O ₅ : NaSO ₃			
Sample Custody Seals:	Temperature Reading:	Yes	No														Zn Acetate+NaOH: Zn			
Total Containers:	Corrected Temperature:																NaOH+Ascorbic Acid: SAPC			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments	
CS-1 (4.5')	8/15/2024		X		C	1	BTEX 8021B													
CS-2 (4.5')	8/15/2024		X		C	1	TPH 8015M (GRO + DRO + MRO)													
CS-3 (4.5')	8/15/2024		X		C	1	Chloride 300.0													
CS-4 (4.5')	8/15/2024		X		C	1														
CS-5 (4.5')	8/15/2024		X		C	1														
CS-6 (1.5')	8/15/2024		X		C	1														
CS-7 (1.5')	8/15/2024		X		C	1														
CS-8 (1.5')	8/15/2024		X		C	1														
SW-1 (4.5')	8/15/2024		X		C	1														
SW-2 (4.5')	8/15/2024		X		C	1														

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time
<i>Conner Moehring</i>		8-16-24	<i>[Signature]</i>		8/16/24 150

Work Order No: 47334

Page 2 of 2

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

Work Order Comments	
Program: UST/PST ☐ RP ☒ Brownfields ☐ RRC ☐ Superfund	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

[illegible][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
<i>Carl Meeking</i>	8-16-24		8/16/24 1:30 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-47334-1

SDG Number: Eddy County, New Mexico

Login Number: 47334

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/20/2024 5:48:41 PM

JOB DESCRIPTION

Populus Fed (06.13.24)
Eddy County, New Mexico

JOB NUMBER

880-47428-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



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8/20/2024 5:48:41 PM

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

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Laboratory Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

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

Definitions/Glossary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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: Populus Fed (06.13.24)

Job ID: 880-47428-1

Job ID: 880-47428-1

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Job Narrative
880-47428-1

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

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

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

Receipt

The sample was received on 8/19/2024 4:19 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Client Sample ID: Backfill sample

Lab Sample ID: 880-47428-1

Date Collected: 08/19/24 00:00

Matrix: Solid

Date Received: 08/19/24 16:19

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		08/20/24 08:43	08/20/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/24 08:43	08/20/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/24 08:43	08/20/24 11:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/20/24 08:43	08/20/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/24 08:43	08/20/24 11:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/20/24 08:43	08/20/24 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/20/24 08:43	08/20/24 11:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/20/24 08:43	08/20/24 11:56	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			08/20/24 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/20/24 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/20/24 10:30	08/20/24 12:20	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/20/24 10:30	08/20/24 12:20	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/20/24 10:30	08/20/24 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/20/24 10:30	08/20/24 12:20	1
o-Terphenyl	75		70 - 130	08/20/24 10:30	08/20/24 12:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	312		5.05		mg/Kg			08/20/24 10:56	1

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Surrogate Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-47428-1	Backfill sample	112	94
880-47428-1 MS	Backfill sample	98	104
880-47428-1 MSD	Backfill sample	100	107
LCS 880-88898/1-A	Lab Control Sample	100	105
LCSD 880-88898/2-A	Lab Control Sample Dup	98	105
MB 880-88898/5-A	Method Blank	102	93
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)
880-47428-1	Backfill sample	85	75
880-47428-1 MS	Backfill sample	114	93
880-47428-1 MSD	Backfill sample	95	92
LCS 880-88795/2-A	Lab Control Sample	77	83
LCSD 880-88795/3-A	Lab Control Sample Dup	95	82
MB 880-88795/1-A	Method Blank	84	78
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88898/5-A						Client Sample ID: Method Blank										
Matrix: Solid						Prep Type: Total/NA										
Analysis Batch: 88893						Prep Batch: 88898										
Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac					
	Result	Qualifier														
	Benzene	<0.00200 U										0.00200	mg/Kg	08/20/24 08:43	08/20/24 11:34	1
	Toluene	<0.00200 U										0.00200	mg/Kg	08/20/24 08:43	08/20/24 11:34	1
	Ethylbenzene	<0.00200 U										0.00200	mg/Kg	08/20/24 08:43	08/20/24 11:34	1
	m-Xylene & p-Xylene	<0.00400 U										0.00400	mg/Kg	08/20/24 08:43	08/20/24 11:34	1
	o-Xylene	<0.00200 U										0.00200	mg/Kg	08/20/24 08:43	08/20/24 11:34	1
	Xylenes, Total	<0.00400 U										0.00400	mg/Kg	08/20/24 08:43	08/20/24 11:34	1
Surrogate	MB	MB	Limits				Prepared		Analyzed		Dil Fac					
	%Recovery	Qualifier														
	4-Bromofluorobenzene (Surr)	102										70 - 130	08/20/24 08:43	08/20/24 11:34	1	
1,4-Difluorobenzene (Surr)	93	70 - 130	08/20/24 08:43	08/20/24 11:34	1											

Lab Sample ID: LCS 880-88898/1-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 88893					Prep Batch: 88898				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		
							Limits		
Benzene	0.100	0.1111		mg/Kg		111		70 - 130	
Toluene	0.100	0.1023		mg/Kg		102		70 - 130	
Ethylbenzene	0.100	0.1042		mg/Kg		104		70 - 130	
m-Xylene & p-Xylene	0.200	0.2108		mg/Kg		105		70 - 130	
o-Xylene	0.100	0.1059		mg/Kg		106		70 - 130	
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: LCSD 880-88898/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88893							Prep Batch: 88898			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1124		mg/Kg		112	70 - 130	1	35
Toluene		0.100	0.1023		mg/Kg		102	70 - 130	0	35
Ethylbenzene		0.100	0.1038		mg/Kg		104	70 - 130	0	35
m-Xylene & p-Xylene		0.200	0.2098		mg/Kg		105	70 - 130	0	35
o-Xylene		0.100	0.1055		mg/Kg		106	70 - 130	0	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	98		70 - 130							
1,4-Difluorobenzene (Surr)	105		70 - 130							

Lab Sample ID: 880-47428-1 MS							Client Sample ID: Backfill sample			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88893							Prep Batch: 88898			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	<0.00200	U	0.100	0.1029		mg/Kg		103	70 - 130	
Toluene	<0.00200	U	0.100	0.09225		mg/Kg		92	70 - 130	

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-47428-1 MS
Matrix: Solid
Analysis Batch: 88893

Client Sample ID: Backfill sample
Prep Type: Total/NA
Prep Batch: 88898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09139		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1833		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.09202		mg/Kg		92	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 880-47428-1 MSD
Matrix: Solid
Analysis Batch: 88893

Client Sample ID: Backfill sample
Prep Type: Total/NA
Prep Batch: 88898

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1049		mg/Kg		105	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09237		mg/Kg		92	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.08982		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1793		mg/Kg		90	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.09014		mg/Kg		90	70 - 130	2	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								

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

Lab Sample ID: MB 880-88795/1-A
Matrix: Solid
Analysis Batch: 88918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88795

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		08/19/24 10:29	08/20/24 06:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/24 10:29	08/20/24 06:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/24 10:29	08/20/24 06:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	84		70 - 130						
o-Terphenyl	78		70 - 130						

Lab Sample ID: LCS 880-88795/2-A
Matrix: Solid
Analysis Batch: 88918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	793.0		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	1000	808.8		mg/Kg		81	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-88795/2-A
Matrix: Solid
Analysis Batch: 88918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88795

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-88795/3-A
Matrix: Solid
Analysis Batch: 88918

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	815.5		mg/Kg		82	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	739.9		mg/Kg		74	70 - 130	9	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-47428-1 MS
Matrix: Solid
Analysis Batch: 88918

Client Sample ID: Backfill sample
Prep Type: Total/NA
Prep Batch: 88795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	863.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.2	U	998	827.2		mg/Kg		83	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 880-47428-1 MSD
Matrix: Solid
Analysis Batch: 88918

Client Sample ID: Backfill sample
Prep Type: Total/NA
Prep Batch: 88795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	874.1		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.2	U	998	877.7		mg/Kg		88	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88888/1-A Matrix: Solid Analysis Batch: 88902										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analized	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			08/20/24 10:08	1		

Lab Sample ID: LCS 880-88888/2-A Matrix: Solid Analysis Batch: 88902										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	240.6		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-88888/3-A Matrix: Solid Analysis Batch: 88902										Client Sample ID: Lab Control Sample Dup Prep Type: Soluble	
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	240.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-47417-A-1-E MS Matrix: Solid Analysis Batch: 88902										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	18.8		248	249.7		mg/Kg		93	90 - 110		

Lab Sample ID: 880-47417-A-1-F MSD Matrix: Solid Analysis Batch: 88902										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	18.8		248	250.0		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 88893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47428-1	Backfill sample	Total/NA	Solid	8021B	88898
MB 880-88898/5-A	Method Blank	Total/NA	Solid	8021B	88898
LCS 880-88898/1-A	Lab Control Sample	Total/NA	Solid	8021B	88898
LCSD 880-88898/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88898
880-47428-1 MS	Backfill sample	Total/NA	Solid	8021B	88898
880-47428-1 MSD	Backfill sample	Total/NA	Solid	8021B	88898

Prep Batch: 88898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47428-1	Backfill sample	Total/NA	Solid	5035	
MB 880-88898/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88898/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88898/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47428-1 MS	Backfill sample	Total/NA	Solid	5035	
880-47428-1 MSD	Backfill sample	Total/NA	Solid	5035	

Analysis Batch: 88992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47428-1	Backfill sample	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 88795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47428-1	Backfill sample	Total/NA	Solid	8015NM Prep	
MB 880-88795/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88795/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47428-1 MS	Backfill sample	Total/NA	Solid	8015NM Prep	
880-47428-1 MSD	Backfill sample	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47428-1	Backfill sample	Total/NA	Solid	8015B NM	88795
MB 880-88795/1-A	Method Blank	Total/NA	Solid	8015B NM	88795
LCS 880-88795/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88795
LCSD 880-88795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88795
880-47428-1 MS	Backfill sample	Total/NA	Solid	8015B NM	88795
880-47428-1 MSD	Backfill sample	Total/NA	Solid	8015B NM	88795

Analysis Batch: 88989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47428-1	Backfill sample	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 88888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47428-1	Backfill sample	Soluble	Solid	DI Leach	
MB 880-88888/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88888/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88888/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 88888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47417-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47417-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 88902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47428-1	Backfill sample	Soluble	Solid	300.0	88888
MB 880-88888/1-A	Method Blank	Soluble	Solid	300.0	88888
LCS 880-88888/2-A	Lab Control Sample	Soluble	Solid	300.0	88888
LCSD 880-88888/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88888
880-47417-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	88888
880-47417-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	88888

Lab Chronicle

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Client Sample ID: Backfill sample
Date Collected: 08/19/24 00:00
Date Received: 08/19/24 16:19

Lab Sample ID: 880-47428-1
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			5.01 g	5 mL	88898	08/20/24 08:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88893	08/20/24 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			88992	08/20/24 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			88989	08/20/24 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	88795	08/20/24 10:30	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88918	08/20/24 12:20	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88888	08/20/24 08:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88902	08/20/24 10:56	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: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Populus Fed (06.13.24)

Job ID: 880-47428-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-47428-1	Backfill sample	Solid	08/19/24 00:00	08/19/24 16:19

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



880-47428 Chain of Custody

Page 1 of 1

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

Project Name:		Populus Fed (06.13.24)		Turn Around		Parameters		ANALYSIS REC				
Project Number:		2462		☐ Routine ☒ Rush		Pres. Code						
Project Location		Eddy County, New Mexico		Due Date:		24 HR						
Sampler's Name:		IR										
PO #:												
SAMPLE RECEIPT				Temp Blank:		Yes ☒ No ☐						
Received Intact:				Yes ☒ No ☐		Thermometer ID:						
Cooler Custody Seals:				Yes ☒ No ☐		Correction Factor:						
Sample Custody Seals:				Yes ☒ No ☐		Temperature Reading:						
Total Containers:						Corrected Temperature:						
								BTX 8021B				
								8015M (GRC + DRO + MRO)				
								Chloride 300.0				

[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
	8-19-24 @ 16:19		8/19/24 16:19

Chain of Custody

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-47428-1
SDG Number: Eddy County, New Mexico

Login Number: 47428

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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

QUESTIONS

Action 383003

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	383003
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2417752286
Incident Name	NAPP2417752286 POPULUS FEDERAL 003H @ 0
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2203845594] Populus Fed 3H - Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Populus Federal 003H
Date Release Discovered	06/13/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Fire Other (Specify) Crude Oil Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
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 383003

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 383003
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as 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: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/02/2024
--	---

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QUESTIONS, Page 3

Action 383003

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	383003
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	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	Greater than 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 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 100 (ft.)
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)	3940
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	323
GRO+DRO	(EPA SW-846 Method 8015M)	323
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	08/14/2024
On what date will (or did) the final sampling or liner inspection occur	08/15/2024
On what date will (or was) the remediation complete(d)	08/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	993
What is the estimated volume (in cubic yards) that will be remediated	120

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 383003

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	383003
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Populus Fed 3H - Battery [fAPP2203845594]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 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>	

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QUESTIONS, Page 5

Action 383003

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 383003
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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 6

Action 383003

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	383003
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	372855
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/14/2024
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	933
What was the total volume (cubic yards) remediated	120
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	na

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 09/12/2024
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QUESTIONS, Page 7

Action 383003

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 383003
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 383003

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 383003
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2417752286 POPULUS FEDERAL 003H, thank you. This Remediation Closure Report is approved.	9/25/2024