CARMONA RESOURCES

SITE INFORMATION

Closure Report
Mosaic 34 Federal 2H Battery (12.03.2024)
Incident ID: NAPP2433932147
Eddy County, New Mexico
Unit P Sec 34 T24S R28E
32.167806°, -104.067389°

Crude Oil Release
Point of Release: Equipment failure at the separator resulting in flare fire
Release Date: 12.03.2024
Volume Released: 0.096 Barrels of Crude Oil
Volume Recovered: 0 Barrels of Crude Oil

CARMONA RESOURCES

Prepared for:
Chevron U.S.A., Inc.
6301 Deauville Blvd
Midland, Texas 79706

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

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

CARMONA RESOURCES

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CARMONA RESOURCES

January 29, 2025

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

Re: Closure Report
Mosaic 34 Federal 2H Battery (12.03.2024)
Chevron U.S.A., Inc.
Incident ID: NAPP2433932147
Site Location: Unit P, S34, T24S, R28E
(Lat 32.167806º, Long -104.067389º)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document site activities for the Mosaic 34 Federal 2H Battery (12.03.2024). The site is located at 32.167806º, -104.067389º within Unit P, S34, T24S, R28E, in Eddy County, New Mexico (Figure 1 and Figure 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on December 3, 2024, due to equipment failure at the separator, resulting in a flare fire. It resulted in approximately zero point zero nine six (0.096) barrels of crude oil being released and zero (0) barrels of crude oil being recovered. The impacted area occured on the pad and into the pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are two known water sources within a 0.50-mile radius of the location. The nearest well is located approximately 0.15 miles South of the site in S03, T25S, R28E and was last gauged in 2024. The depth of groundwater was 47.85' feet below ground surface (bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

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4.0 Site Assessment Activities

On January 3, 2025, 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 four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 1.25' bgs inside the release area to assess 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 in Carlsbad, New Mexico. 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.

See Table 1 for analytical results.

5.0 Remediation Activities

Between January 20, 2025, and January 21, 2025, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on January 16, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-3 was excavated to a depth of 1.5' bgs. A total of two (2) confirmation floor samples (CS-1 & CS-2), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. 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 Cardinal Laboratories in Hobbs, New Mexico. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Before the excavation was backfilled, a composite sample of the backfill material was collected to ensure the material was clean per NMOCD standards. The backfill material was sourced from a local landowner, located at 32.161928, -104.316363. Refer to Table 2. Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 22 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,
Carmona Resources, LLC

Ashton Thielke
Environmental Manager

Gilbert Priego
Project Manager

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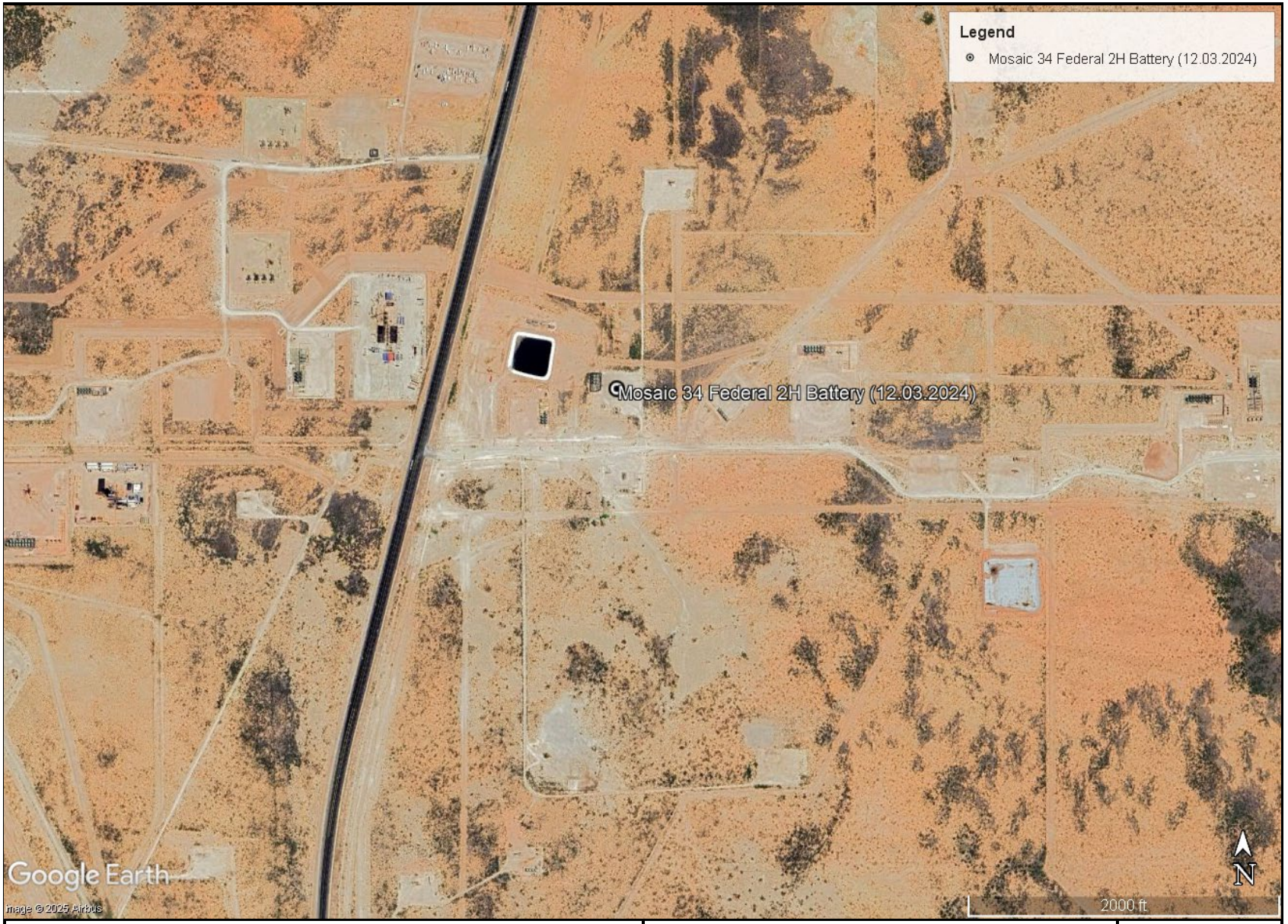
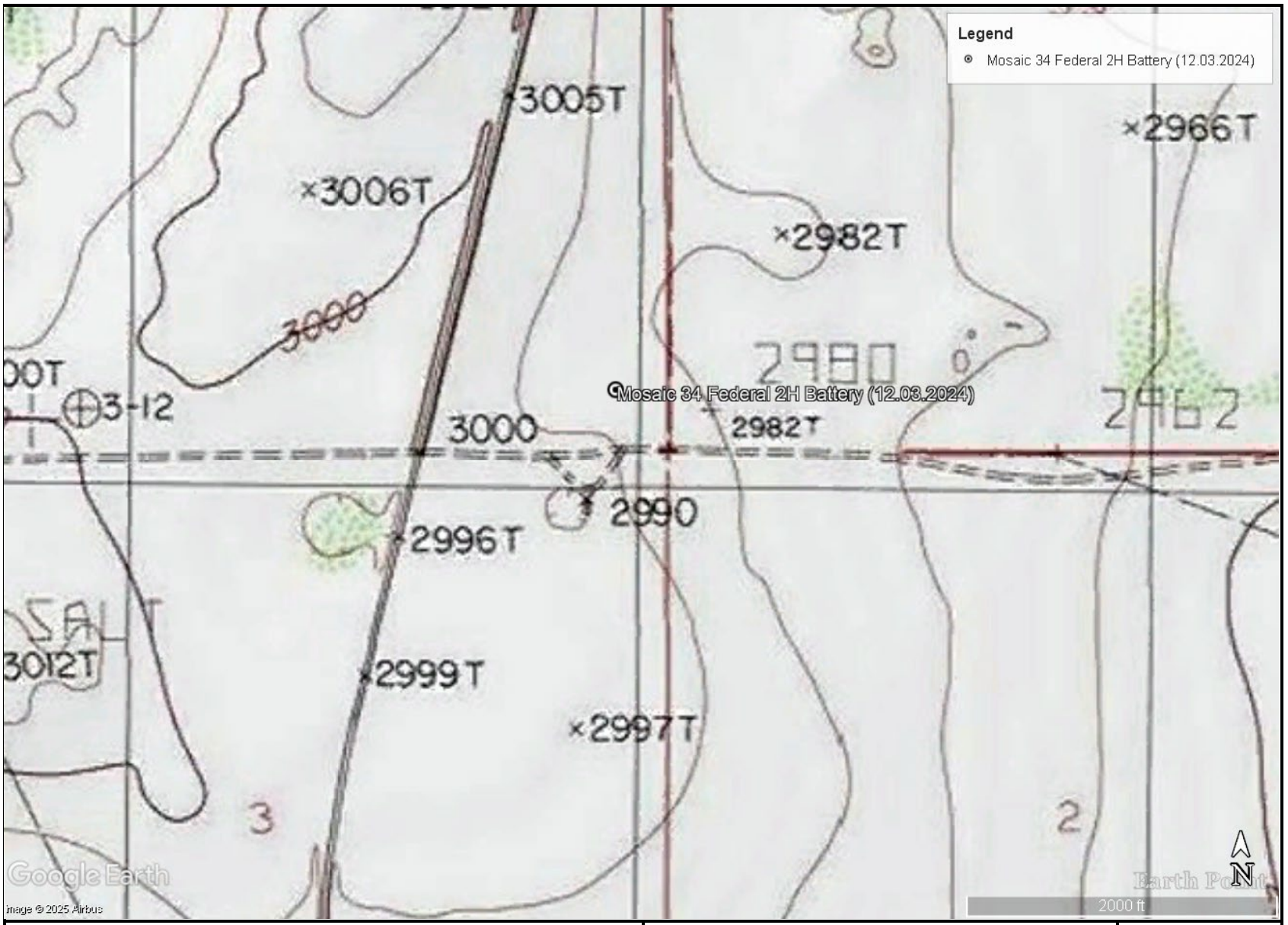
FIGURES

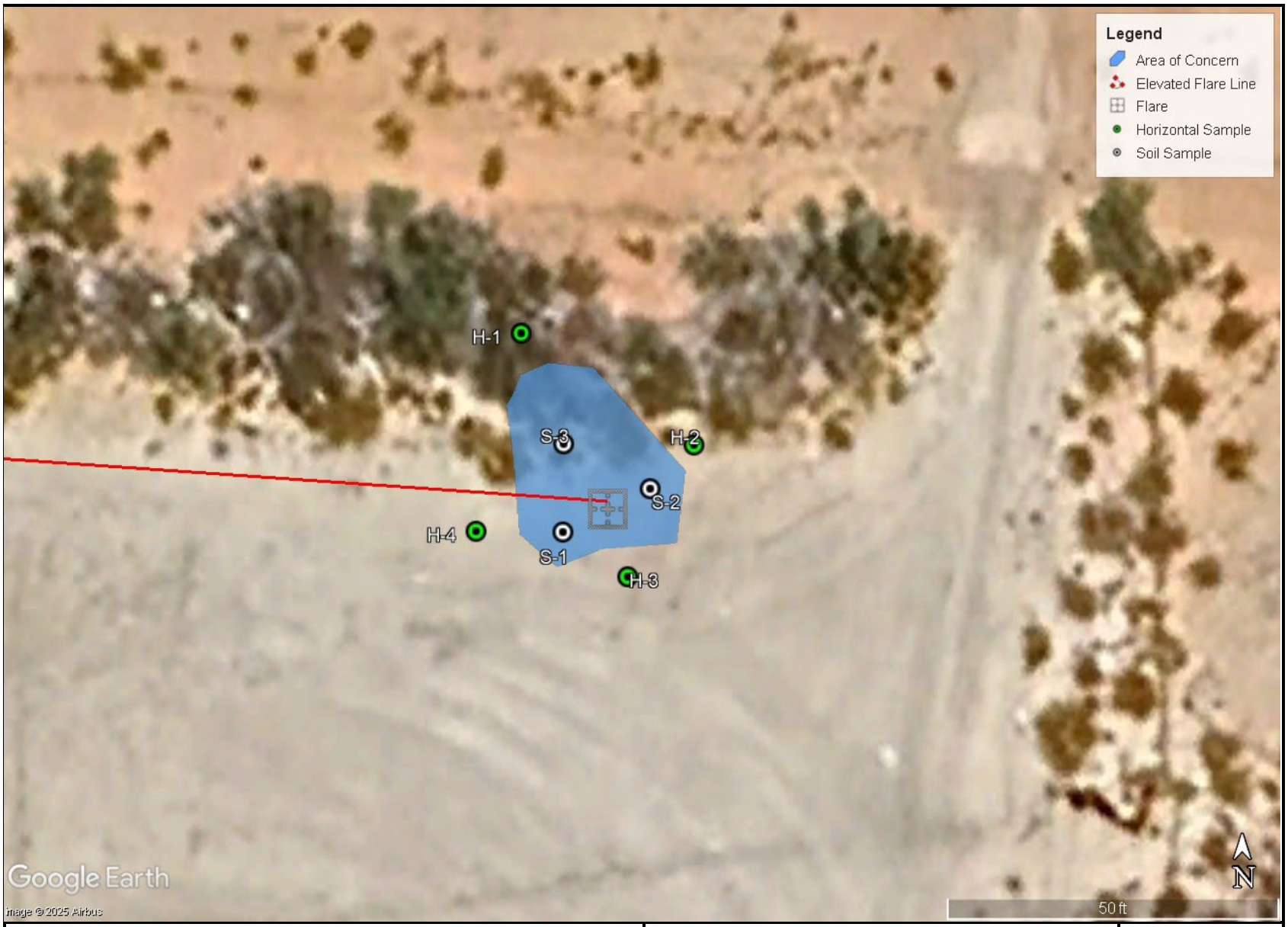
CARMONA RESOURCES



OVERVIEW MAP CHEVRON U.S.A., INC. MOSAIC 34 FEDERAL 2H BATTERY (12.03.2024) EDDY COUNTY, NEW MEXICO 32.167806°, -104.067389°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP CHEVRON U.S.A., INC. MOSAIC 34 FEDERAL 2H BATTERY (12.03.2024) EDDY COUNTY, NEW MEXICO 32.167806°, -104.067389°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP CHEVRON U.S.A., INC. MOSAIC 34 FEDERAL 2H BATTERY (12.03.2024) EDDY COUNTY, NEW MEXICO 32.167806°, -104.067389°	CARMONA RESOURCES	FIGURE 3

EXCAVATION DEPTH MAP CHEVRON U.S.A., INC. MOSAIC 34 FEDERAL 2H BATTERY (12.03.2024) EDDY COUNTY, NEW MEXICO 32.167806°, -104.067389°	CARMONA RESOURCES	FIGURE 4A

EXCAVATION DEPTH MAP CHEVRON U.S.A., INC. MOSAIC 34 FEDERAL 2H BATTERY (12.03.2024) EDDY COUNTY, NEW MEXICO 32.167806°, -104.067389°	CARMONA RESOURCES	FIGURE 4B

APPENDIX A

CARMONA RESOURCES

Table 1
Chevron U.S.A., Inc.
Mosaic 34 Federal 2H Battery
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	1/3/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	127
	"	0.5'-1.0'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	178
	"	1.25' R	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	172
S-2	1/3/2025	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	151
	"	0.5'-1.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	122
	"	1.25' R	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	150
S-3	1/3/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	163
	"	0.5'-1.0'	<49.9	**149**	<49.9	**149**	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	166
	"	1.25' R	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	194
H-1	1/3/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	96.6
H-2	1/3/2025	0-0.5'	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	83.3
H-3	1/3/2025	0-0.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	119
H-4	1/3/2025	0-0.5'	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	125
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
(R) Refusal Point
(H) Horzontal Sample
Exceeds

Table 2
Chevron U.S.A., Inc.
Mosaic 34 Federal 2H Battery
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	1/20/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	1/20/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-1	1/20/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-2	1/20/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	1/20/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-4	1/20/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Fred Beard Backfill	12/20/2024	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	48.3
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 Floor Sample
(SW) Confirmation Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

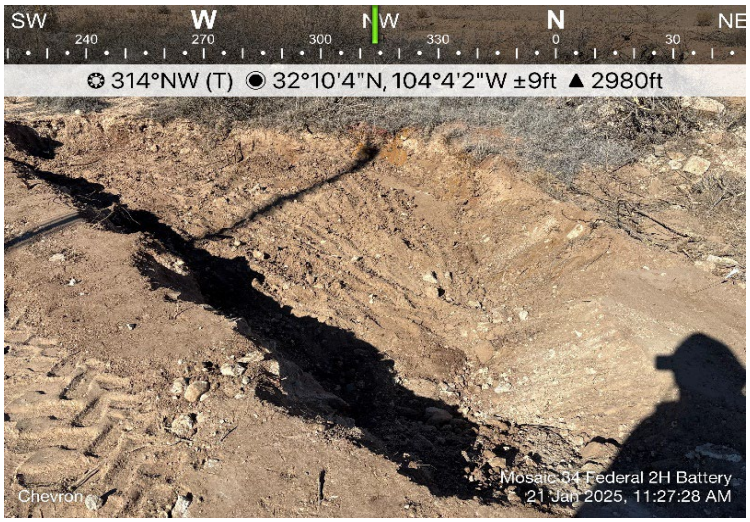
Chevron U.S.A., Inc.

Photograph No. 1

Facility: Mosaic 34 Federal 2H Battery

County: Eddy County, New Mexico

Description:
Northwest view of the excavation area and confirmation sample locations (CS-1 & CS-2).

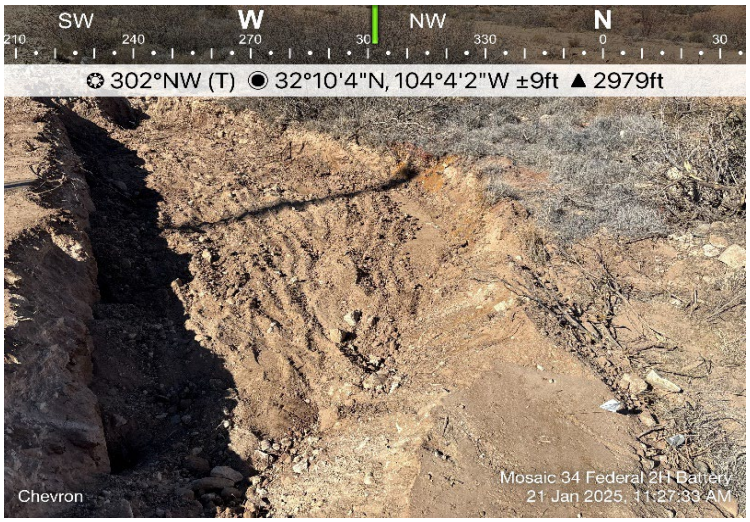


Photograph No. 2

Facility: Mosaic 34 Federal 2H Battery

County: Eddy County, New Mexico

Description:
Northwest view of the excavation area and confirmation sample locations (CS-1 & CS-2).

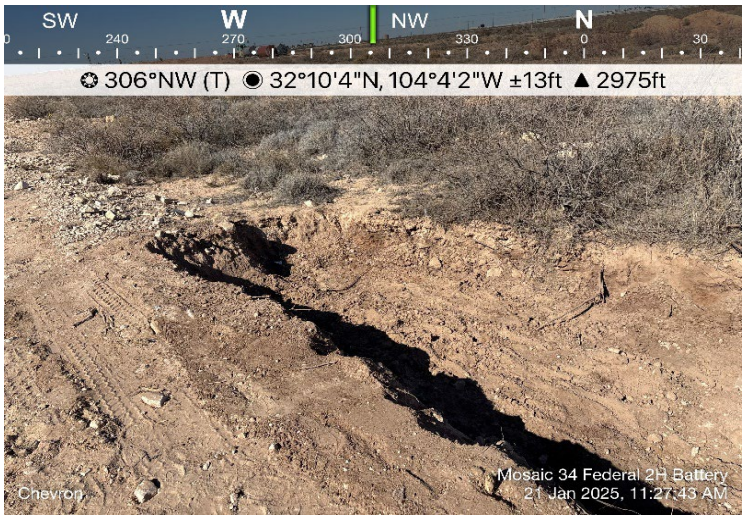


Photograph No. 3

Facility: Mosaic 34 Federal 2H Battery

County: Eddy County, New Mexico

Description:
Northwest view of the excavation area and confirmation sample locations (CS-1 & CS-2).



PHOTOGRAPHIC LOG

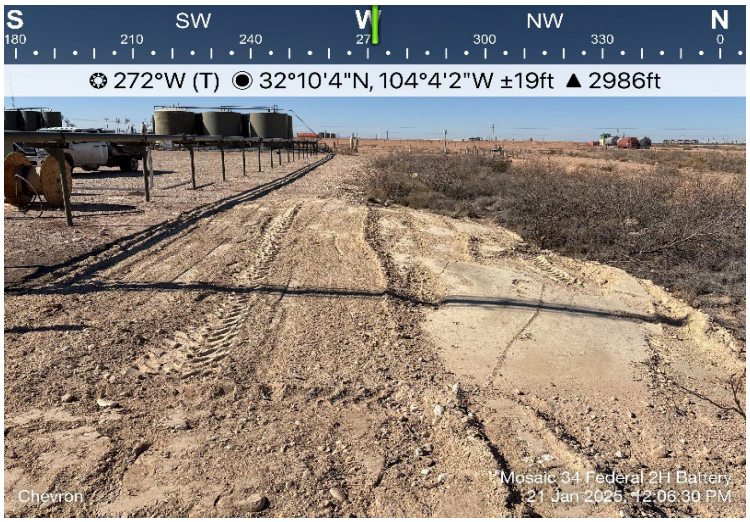
Chevron U.S.A., Inc.

Photograph No. 4

Facility: Mosaic 34 Federal 2H Battery

County: Eddy County, New Mexico

Description:
West view of the excavation area backfilled.

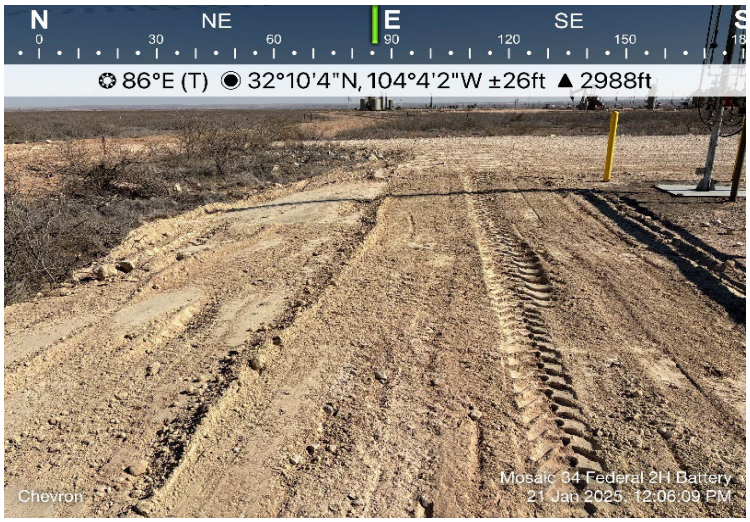


Photograph No. 5

Facility: Mosaic 34 Federal 2H Battery

County: Eddy County, New Mexico

Description:
East view of the excavation area backfilled.



APPENDIX C

CARMONA RESOURCES

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 408402
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Mosaic 34 Federal 1H Battery
Date Release Discovered	12/03/2024
Surface Owner	Private

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 408402
	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	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 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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 408402
	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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 408402
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
klincoln	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/4/2024

Spilled Material: Crude Oil Only
Oil Released: 0.096 bbl
Oil Recovered: 0 bbl
Water Released: bbl
Water Recovered: 0 bbl

Calculation Details									
Area	**Shape**	**Secondary Containment**	**Standing Liquid Dimension**	**Standing Liquid Volume**	**Water Cut**	**Oil Volume**	**Penetration Depth**	**Water to Soil Volume**	**Water Volume**
1	Rectangle	Caliche	15 ft x 3 ft x .125 in	0.096 bbl	0%	0.096 bbl	.125 in	0.013 bbl	
2					%				
3					%				
4					%				
5					%				
6					%				
7					%				
Rec Vol						0			0
Total Vol						0.096			

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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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 409956
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2433932147**
Incident Name	**NAPP2433932147 MOSAIC 34 FEDERAL 2H BATTERY @ 0**
Incident Type	**Fire**
Incident Status	**Initial C-141 Received**
Incident Facility	**[fAPP2132240755] Mosaic 34 Federal 2H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MOSAIC 34 FEDERAL 2H BATTERY
Date Release Discovered	12/03/2024
Surface Owner	Private

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: Equipment Failure | Separator | 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.*

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 409956
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 12/16/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 409956
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	*Not answered.*
What method was used to determine the depth to ground water	*Not answered.*
Did this release impact groundwater or surface water	*Not answered.*
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	*Not answered.*
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	*Not answered.*
An occupied permanent residence, school, hospital, institution, or church	*Not answered.*
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	*Not answered.*
Any other fresh water well or spring	*Not answered.*
Incorporated municipal boundaries or a defined municipal fresh water well field	*Not answered.*
A wetland	*Not answered.*
A subsurface mine	*Not answered.*
An (non-karst) unstable area	*Not answered.*
Categorize the risk of this well / site being in a karst geology	*Not answered.*
A 100-year floodplain	*Not answered.*
Did the release impact areas not on an exploration, development, production, or storage site	*Not answered.*

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 409956

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 409956
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	12/16/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 421420

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 421420
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2433932147**
Incident Name	**NAPP2433932147 MOSAIC 34 FEDERAL 2H BATTERY @ 0**
Incident Type	**Fire**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2132240755] Mosaic 34 Federal 2H**

Location of Release Source	
Site Name	**MOSAIC 34 FEDERAL 2H BATTERY**
Date Release Discovered	**12/03/2024**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	350
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/20/2025
Time sampling will commence	11:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Sampler Contact: Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	"(32.167806, -104.067389) Carmona Resources will be onsite on January 20, 2025 to remediate contamination from the recent flare fire.

Sante Fe Main Office
Phone: (505) 476-3441

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

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 421420
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
klincoln	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.	1/16/2025

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

Chevron USA

Legend

- 0.09 Miles
- 0.15 Miles
- 0.50 Mile Radius
- Mosaic 34 Federal 2H Battery (12.03.2024)
- NMSEO Water Well
- USGS Water Well

70' - Drilled 2023

Mosaic 34 Federal 2H Battery (12.03.2024)

47.85' - Gauged 2024

Google Earth

Image © 2024 Airbus

N

4000 ft

High Karst
Chevron USA

Legend
High
Medium
Mosaic 34 Federal 2H Battery (12.03.2024)

Mosaic 34 Federal 2H Battery (12.03.2024)

Google Earth
Image © 2024 Airbus

N

4000 ft

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are smallest to largest) (meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04715 POD1		CUB	ED	SW	SE	SE	34	24S	28E	587786.5	3559440.3		146	40		
C 01411	R	C	ED	SE	SE	NE	04	25S	28E	586289.0	3558522.0 *		1869	69	35	34
C 03989 POD1		CUB	ED	SE	NE	NE	33	24S	28E	586341.7	3560573.5		1966	100	70	30
C 04025 POD1		CUB	ED	SE	SW	SW	27	24S	28E	586699.8	3560964.5		1978	190	90	100
C 04680 POD1		C	ED	SW	NW	SW	03	25S	28E	586440.1	3558089.5		1995	105	52	53
C 01411 POD2		C	ED	SE	NE	SE	04	25S	28E	586373.8	3558036.3		2080	90	50	40
C 03988 POD1		CUB	ED	SE	SE	SE	28	24S	28E	586303.3	3561087.4		2333	110	95	15
C 04222 POD1		CUB	ED	NW	SW	SW	27	24S	28E	586406.3	3561228.1		2368	140	35	105
C 03423		CUB	ED	NE	SE	NW	26	24S	28E	588786.3	3561952.6		2677	126		
C 03358 POD1		CUB	ED	NW	SE	NW	26	24S	28E	588416.0	3562116.0		2743	135		
C 04181 POD1		CUB	ED	SW	NE	NW	26	24S	28E	588450.4	3562146.5		2779	280	56	224
C 02668		C	ED	NE	NW	NE	09	25S	28E	585890.0	3557525.0 *		2782	150		
C 04181 POD2		C	ED	SW	NE	NW	26	24S	28E	588393.3	3562212.5		2834	80	56	24
C 04151 POD1		CUB	ED	SE	NE	NW	26	24S	28E	588584.4	3562192.3		2852	280	65	215

Average Depth to Water: **60 feet**

Minimum Depth: **35 feet**

Maximum Depth: **95 feet**

Record Count: 14

UTM Filters (in meters):
Easting: 587931.27
Northing: 3559415.65
Radius: 3000

*** UTM location was derived from PLSS - see Help**

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): ~~C-4715~~ Pod 1 mw	WELL TAG ID NO.	OSE FILE NO(S.): C-4715 ~~Pod 1 mw~~
WELL OWNER NAME(S): Willow Creek RV Park		PHONE (OPTIONAL): 575-626-9996
WELL OWNER MAILING ADDRESS: P.O. Box 1510	CITY: Carlsbad	STATE: NM ZIP: 88221

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS
LATITUDE	32	10'	4.90" N
LONGITUDE	104	4'	8.11" W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE: SW 1/4 SE 1/4 SE 1/4 S34 T24S R28E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1229	Richard Carter	Carter Drilling Services INC

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)	STATIC WATER LEVEL IN COMPLETED WELL (FT)
3-2-23	3-16-23	40	70	DRY	DRY

COMPLETED WELL IS: ARTESIAN (DRY HOLE) SHALLOW (UNCONFINED)

DRILLING FLUID: (AIR) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (ROTARY) HAMMER CABLE TOOL OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
-2.5	+2.5	10 5/8	6 5/8 iron well Vault	—	6 3/8	.125	—
-2	10	6.5	2" Sch 40 PVC	Thread	2"	.188	—
10	40	6.5	"	"	"	"	0.010
40	40.1	6.5	" CAP	"	"	"	—

OSE DII APR 24 2023 AM 9:23

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
70	40	6 1/2	3/8 bentonite pellets	7	tremmie
40	8	6 1/2	12/20 Silica SAND	6.4	tremmie
8	5	6 1/2	3/8 bentonite Pellets	.6	Poured
5	0	10 5/8	Type II neat cement	3.1	dumped
0	-.5	"	2FT x 2FT x 6" cement cap	2	"

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4715-POD1	POD NO. 1	TRN NO. 743404
LOCATION MON 24.28.34.344	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	5	5	Red Sand clay	Y (N)	
5	8	3	White Caliched	Y (N)	
8	33	25	Red Clay	Y (N)	
33	35	2	Red Sand	Y (N)	
35	50	15	Red Clay	Y (N)	
50	54	4	Tan Sand	Y (N)	
54	70	16	Red Clay	Y (N)	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☒ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00 Dry

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Dry

OSE DIT APR 24 2023 AM 9:23

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Richard M. Carter Richard M. Carter — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

3-17-23 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO. C-4715-POD 1	POD NO. 1	TRN NO. 743404	
LOCATION Mon 24.28.34.344		WELL TAG ID NO.	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 743404
File Nbr: C 04715
Well File Nbr: C 04715 POD1

Apr. 24, 2023

SCOTT BRANSON
WILLOW CREEK RV PARK
P.O. BOX 1501
CARLSBAD, NM 88221

Greetings:

The above numbered permit was issued in your name on 02/23/2023.

The Well Record was received in this office on 04/24/2023, stating that it had been completed on 03/16/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/23/2024.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson
(575)622-6521

drywell

USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320956104040101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320956104040101 25S.28E.03.22231 52

Eddy County, New Mexico
Latitude 32°09'56.2", Longitude 104°04'04.1" NAD83
Land-surface elevation 2,990.20 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1948-12-06		D	62610		2957.93	NGVD29	1	Z			A
1948-12-06		D	62611		2959.50	NAVD88	1	Z			A
1948-12-06		D	72019	32.27			1	Z			A
1978-01-03		D	62610		2957.23	NGVD29	1	Z			A
1978-01-03		D	62611		2958.80	NAVD88	1	Z			A
1978-01-03		D	72019	32.97			1	Z			A
1983-02-01		D	62610		2964.33	NGVD29	1	Z			A
1983-02-01		D	62611		2965.90	NAVD88	1	Z			A
1983-02-01		D	72019	25.87			1	Z			A
1987-10-14		D	62610		2960.93	NGVD29	1	Z			A
1987-10-14		D	62611		2962.50	NAVD88	1	Z			A
1987-10-14		D	72019	29.27			1	Z			A
1988-03-22		D	62610		2960.27	NGVD29	1	Z			A
1988-03-22		D	62611		2961.84	NAVD88	1	Z			A
1988-03-22		D	72019	29.93			1	Z			A
1992-11-04		D	62610		2955.17	NGVD29	1	S			A
1992-11-04		D	62611		2956.74	NAVD88	1	S			A
1992-11-04		D	72019	35.03			1	S			A
1998-01-23		D	62610		2956.36	NGVD29	1	S			A
1998-01-23		D	62611		2957.93	NAVD88	1	S			A
1998-01-23		D	72019	33.84			1	S			A
2003-01-27		D	62610		2958.12	NGVD29	1	S	USGS	S	A
2003-01-27		D	62611		2959.69	NAVD88	1	S	USGS	S	A
2003-01-27		D	72019	32.08			1	S	USGS	S	A
2013-01-10	21:20 UTC	m	62610		2956.64	NGVD29	1	S	USGS	S	A
2013-01-10	21:20 UTC	m	62611		2958.21	NAVD88	1	S	USGS	S	A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
2013-01-10	21:20 UTC	m	72019	33.56			1	S	USGS	S	A
2018-02-14	16:56 UTC	m	62610		2951.08	NGVD29	1	V	USGS	S	A
2018-02-14	16:56 UTC	m	62611		2952.65	NAVD88	1	V	USGS	S	A
2018-02-14	16:56 UTC	m	72019	39.12			1	V	USGS	S	A
2021-02-24	19:00 UTC	m	62610		2947.41	NGVD29	1	S	USGS	S	A
2021-02-24	19:00 UTC	m	62611		2948.98	NAVD88	1	S	USGS	S	A
2021-02-24	19:00 UTC	m	72019	42.79			1	S	USGS	S	A
2022-01-13	18:36 UTC	m	62610		2948.08	NGVD29	1	V	USGS	S	A
2022-01-13	18:36 UTC	m	62611		2949.65	NAVD88	1	V	USGS	S	A
2022-01-13	18:36 UTC	m	72019	42.12			1	V	USGS	S	A
2023-02-14	17:44 UTC	m	62610		2944.69	NGVD29	1	S	USGS	S	A
2023-02-14	17:44 UTC	m	62611		2946.26	NAVD88	1	S	USGS	S	A
2023-02-14	17:44 UTC	m	72019	45.51			1	S	USGS	S	A
2024-03-08	16:42 UTC	m	62610		2942.35	NGVD29	1	S	USGS	S	A
2024-03-08	16:42 UTC	m	62611		2943.92	NAVD88	1	S	USGS	S	A
2024-03-08	16:42 UTC	m	72019	47.85			1	S	USGS	S	A

Explanation

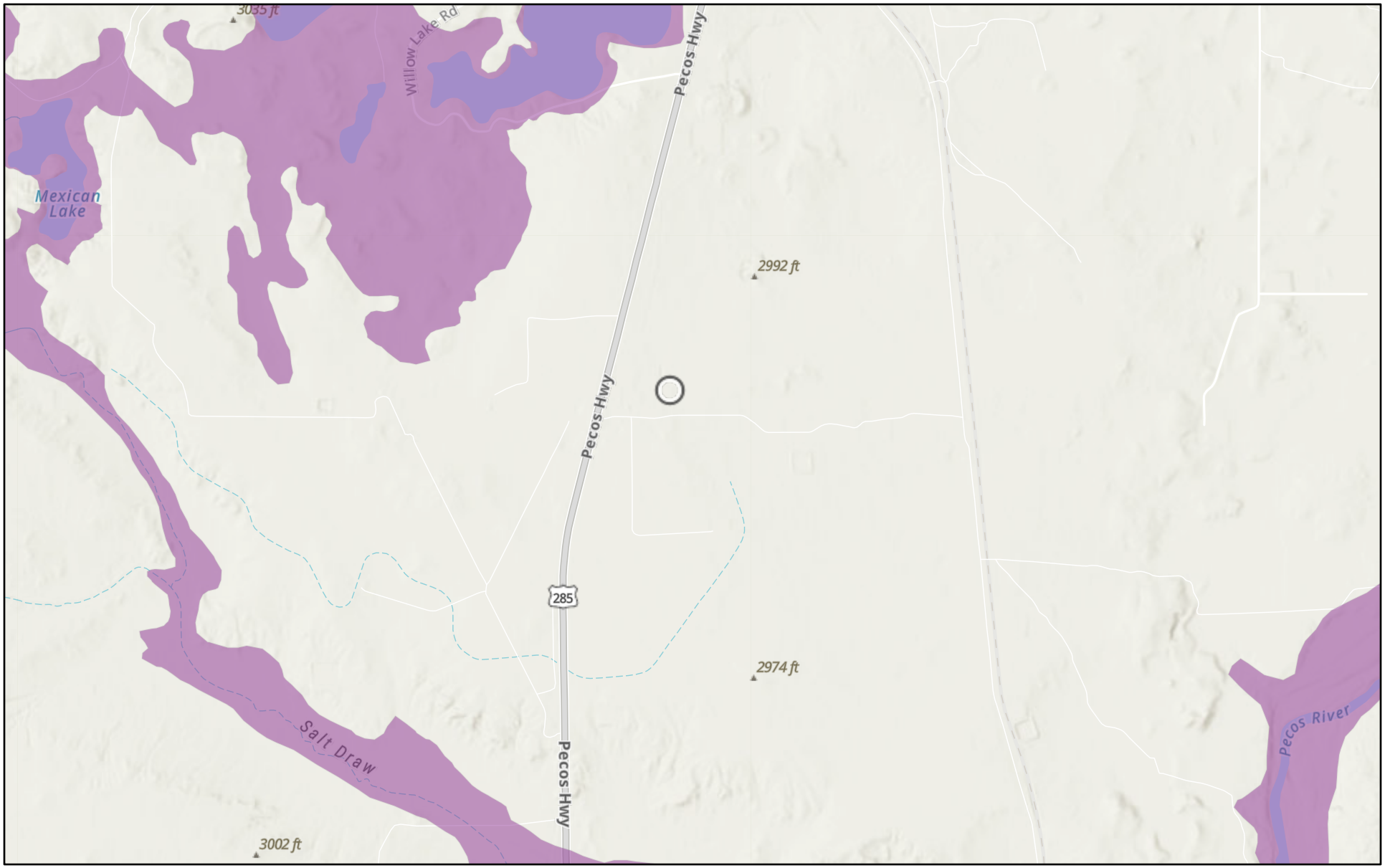
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to 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.

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

Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2024-12-09 10:43:40 EST
0.34 0.24 nadww02

Mosaic 34 Federal 2H Battery (12.03.2024)



12/9/2024

USA Flood Hazard Areas

1% Annual Chance Flood Hazard

World Hillshade

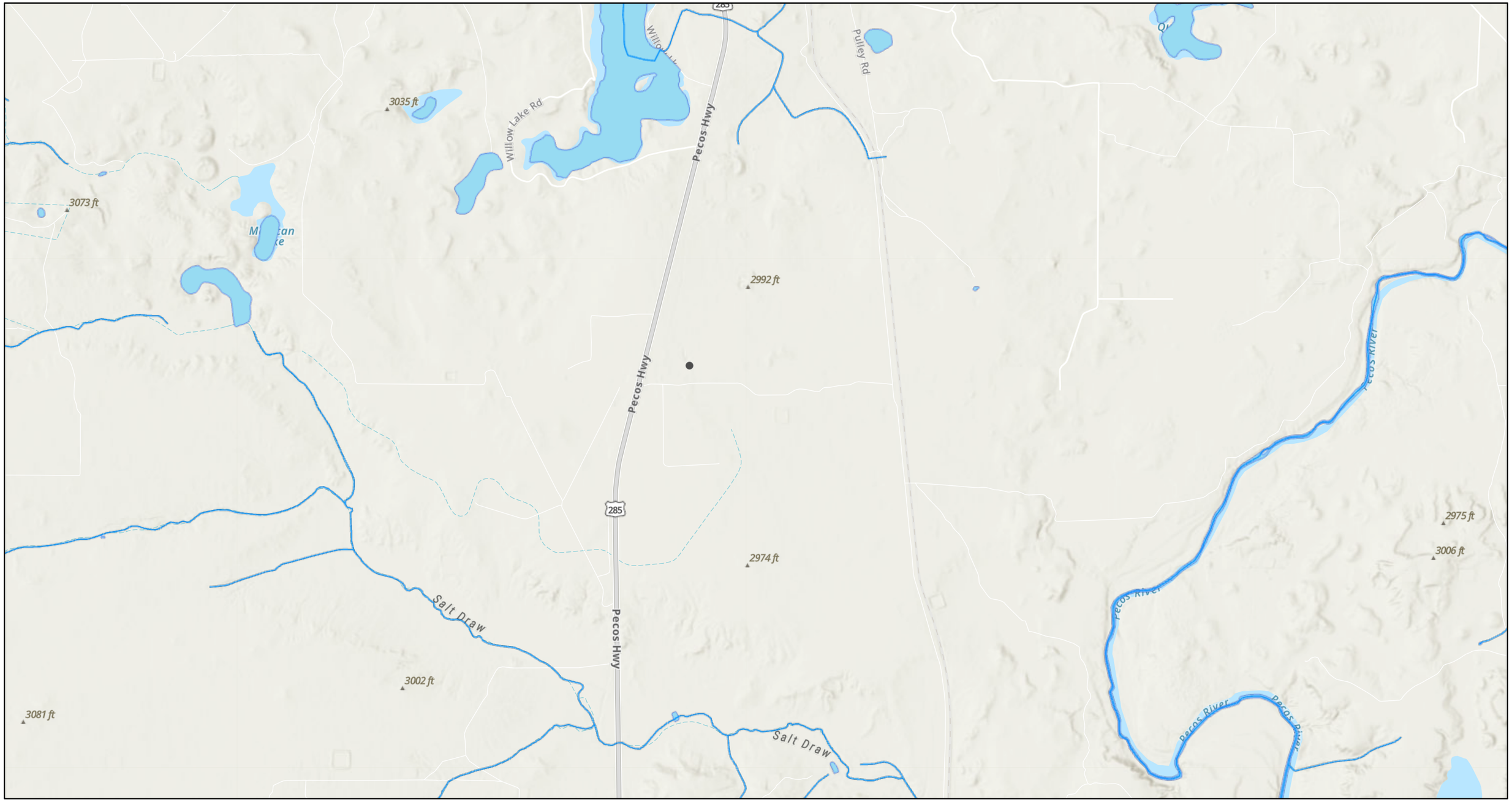
1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Esri, NASA, NGA, USGS, FEMA, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS,

Mosaic 34 Federal 2H Battery (12.03.2024)



12/9/2024, 9:38:03 AM

OSW Water Bodys

OSE Streams

1:36,112

0 0.38 0.75 1.5 mi

0 0.5 1 2 km

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/9/2025 8:03:54 AM

JOB DESCRIPTION

Mosaic 34 Federal 2H Battery
Eddy Co, NM

JOB NUMBER

890-7531-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

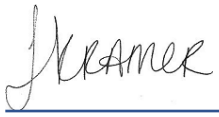
Eurofins Carlsbad

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
1/9/2025 8:03:54 AM

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

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Laboratory Job ID: 890-7531-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
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 Job ID: 890-7531-1
Project: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1 Eurofins Carlsbad

Job Narrative
890-7531-1

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 1/3/2025 2:53 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 4.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H -1 (0-0.5') (890-7531-1), H -2 (0-0.5') (890-7531-2), H -3 (0-0.5') (890-7531-3) and H -4 (0-0.5') (890-7531-4).

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-99582 and analytical batch 880-99763 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99582 and analytical batch 880-99763 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: H -1 (0-0.5') (890-7531-1), H -3 (0-0.5') (890-7531-3), (LCS 880-99582/2-A), (LCSD 880-99582/3-A) and (890-7528-A-21-G). Percent recoveries are based on the amount spiked.

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 for preparation batch 880-99574 and analytical batch 880-99671 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7531-1
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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		01/06/25 10:13	01/06/25 18:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 18:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 18:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 18:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 18:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/06/25 10:13*	*01/06/25 18:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 18:11*	*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			01/06/25 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 14:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 14:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 14:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/25 15:31	01/08/25 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 14:16*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 14:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.6**		10.1		mg/Kg			01/08/25 20:52	1

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

Lab Sample ID: 890-7531-2
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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		01/06/25 10:13	01/06/25 18:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 18:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 18:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/06/25 10:13	01/06/25 18:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/25 10:13	01/06/25 18:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/06/25 10:13	01/06/25 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/06/25 10:13*	*01/06/25 18:32*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/06/25 10:13*	*01/06/25 18:32*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7531-2
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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			01/06/25 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/08/25 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 14:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/06/25 15:31	01/08/25 14:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/25 15:31	01/08/25 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*01/06/25 15:31*	*01/08/25 14:31*	*1*
o-Terphenyl	*122*		*70 - 130*	*01/06/25 15:31*	*01/08/25 14:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.3**		10.1		mg/Kg			01/08/25 21:00	1

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

Lab Sample ID: 890-7531-3
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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		01/06/25 10:13	01/06/25 18:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 18:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 18:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/25 10:13	01/06/25 18:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 18:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/25 10:13	01/06/25 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/06/25 10:13*	*01/06/25 18:52*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/06/25 10:13*	*01/06/25 18:52*	*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			01/06/25 18:52	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			01/08/25 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		01/06/25 15:31	01/08/25 14:46	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		01/06/25 15:31	01/08/25 14:46	1

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7531-3
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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		01/06/25 15:31	01/08/25 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 14:46*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 14:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		9.96		mg/Kg			01/08/25 21:08	1

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

Lab Sample ID: 890-7531-4
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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		01/06/25 10:13	01/06/25 19:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 19:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 19:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 19:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/25 10:13	01/06/25 19:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/25 10:13	01/06/25 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/06/25 10:13*	*01/06/25 19:13*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/06/25 10:13*	*01/06/25 19:13*	*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			01/06/25 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/08/25 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *+	50.2		mg/Kg		01/06/25 15:31	01/08/25 15:01	1
Diesel Range Organics (Over C10-C28)	<50.2	U *+	50.2		mg/Kg		01/06/25 15:31	01/08/25 15:01	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/06/25 15:31	01/08/25 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*01/06/25 15:31*	*01/08/25 15:01*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/06/25 15:31*	*01/08/25 15:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		10.0		mg/Kg			01/08/25 21:16	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7528-A-21-D MS	Matrix Spike	113	103
890-7528-A-21-E MSD	Matrix Spike Duplicate	112	103
890-7531-1	H -1 (0-0.5')	117	105
890-7531-2	H -2 (0-0.5')	113	105
890-7531-3	H -3 (0-0.5')	118	106
890-7531-4	H -4 (0-0.5')	115	106
LCS 880-99528/1-A	Lab Control Sample	111	103
LCSD 880-99528/2-A	Lab Control Sample Dup	108	103
MB 880-99528/5-A	Method Blank	116	99

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7528-A-21-H MS	Matrix Spike	110	118
890-7528-A-21-I MSD	Matrix Spike Duplicate	108	117
890-7531-1	H -1 (0-0.5')	131 S1+	137 S1+
890-7531-2	H -2 (0-0.5')	118	122
890-7531-3	H -3 (0-0.5')	133 S1+	135 S1+
890-7531-4	H -4 (0-0.5')	119	123
LCS 880-99582/2-A	Lab Control Sample	138 S1+	148 S1+
LCSD 880-99582/3-A	Lab Control Sample Dup	170 S1+	152 S1+
MB 880-99582/1-A	Method Blank	170 S1+	174 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99528/5-A
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/25 10:13	01/06/25 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/25 10:13	01/06/25 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/06/25 10:13*	*01/06/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/06/25 10:13*	*01/06/25 11:49*	*1*

Lab Sample ID: LCS 880-99528/1-A
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1083		mg/Kg		108	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2152		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130

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

Lab Sample ID: LCSD 880-99528/2-A
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	2	35
Toluene	0.100	0.1090		mg/Kg		109	70 - 130	1	35
Ethylbenzene	0.100	0.1080		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2176		mg/Kg		109	70 - 130	1	35
o-Xylene	0.100	0.1111		mg/Kg		111	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7528-A-21-D MS
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1013		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.101	0.09945		mg/Kg		99	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7528-A-21-D MS
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.09733		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1989		mg/Kg		99	70 - 130
o-Xylene	<0.00199	U	0.101	0.1011		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-7528-A-21-E MSD
Matrix: Solid
Analysis Batch: 99489

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1037		mg/Kg		103	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.1010		mg/Kg		101	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.09895		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2021		mg/Kg		101	70 - 130	2	35
o-Xylene	<0.00199	U	0.100	0.1026		mg/Kg		102	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-99582/1-A
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99582

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		01/06/25 15:31	01/08/25 03:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/25 15:31	01/08/25 03:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/25 15:31	01/08/25 03:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*170*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 03:00*	*1*
o-Terphenyl	*174*	*S1+*	*70 - 130*	*01/06/25 15:31*	*01/08/25 03:00*	*1*

Lab Sample ID: LCS 880-99582/2-A
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1303		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1413	*+	mg/Kg		141	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-99582/2-A
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99582

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	148	S1+	70 - 130

Lab Sample ID: LCSD 880-99582/3-A
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1309	*+	mg/Kg		131	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1368	*+	mg/Kg		137	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	170	S1+	70 - 130
o-Terphenyl	152	S1+	70 - 130

Lab Sample ID: 890-7528-A-21-H MS
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	1010	1068		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U *+	1010	1200		mg/Kg		119	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-7528-A-21-I MSD
Matrix: Solid
Analysis Batch: 99763

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99582

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	<49.8	U *+	1010	1042		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U *+	1010	1182		mg/Kg		118	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	117		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99574/1-A
Matrix: Solid
Analysis Batch: 99671

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/08/25 17:20	1

Lab Sample ID: LCS 880-99574/2-A
Matrix: Solid
Analysis Batch: 99671

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.7		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-99574/3-A
Matrix: Solid
Analysis Batch: 99671

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	264.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-7529-A-30-C MS
Matrix: Solid
Analysis Batch: 99671

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	127	F1	249	418.0	F1	mg/Kg		117	90 - 110		

Lab Sample ID: 890-7529-A-30-D MSD
Matrix: Solid
Analysis Batch: 99671

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	127	F1	249	345.1	F1	mg/Kg		88	90 - 110	19	20

QC Association Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 99489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7531-1	H -1 (0-0.5')	Total/NA	Solid	8021B	99528
890-7531-2	H -2 (0-0.5')	Total/NA	Solid	8021B	99528
890-7531-3	H -3 (0-0.5')	Total/NA	Solid	8021B	99528
890-7531-4	H -4 (0-0.5')	Total/NA	Solid	8021B	99528
MB 880-99528/5-A	Method Blank	Total/NA	Solid	8021B	99528
LCS 880-99528/1-A	Lab Control Sample	Total/NA	Solid	8021B	99528
LCSD 880-99528/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99528
890-7528-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	99528
890-7528-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	99528

Prep Batch: 99528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7531-1	H -1 (0-0.5')	Total/NA	Solid	5035	
890-7531-2	H -2 (0-0.5')	Total/NA	Solid	5035	
890-7531-3	H -3 (0-0.5')	Total/NA	Solid	5035	
890-7531-4	H -4 (0-0.5')	Total/NA	Solid	5035	
MB 880-99528/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99528/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99528/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7528-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7528-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 99674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7531-1	H -1 (0-0.5')	Total/NA	Solid	Total BTEX	
890-7531-2	H -2 (0-0.5')	Total/NA	Solid	Total BTEX	
890-7531-3	H -3 (0-0.5')	Total/NA	Solid	Total BTEX	
890-7531-4	H -4 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 99582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7531-1	H -1 (0-0.5')	Total/NA	Solid	8015NM Prep	
890-7531-2	H -2 (0-0.5')	Total/NA	Solid	8015NM Prep	
890-7531-3	H -3 (0-0.5')	Total/NA	Solid	8015NM Prep	
890-7531-4	H -4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-99582/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99582/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7528-A-21-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7528-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7531-1	H -1 (0-0.5')	Total/NA	Solid	8015B NM	99582
890-7531-2	H -2 (0-0.5')	Total/NA	Solid	8015B NM	99582
890-7531-3	H -3 (0-0.5')	Total/NA	Solid	8015B NM	99582
890-7531-4	H -4 (0-0.5')	Total/NA	Solid	8015B NM	99582
MB 880-99582/1-A	Method Blank	Total/NA	Solid	8015B NM	99582
LCS 880-99582/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99582

QC Association Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 99763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-99582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99582
890-7528-A-21-H MS	Matrix Spike	Total/NA	Solid	8015B NM	99582
890-7528-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99582

Analysis Batch: 99848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7531-1	H -1 (0-0.5')	Total/NA	Solid	8015 NM	
890-7531-2	H -2 (0-0.5')	Total/NA	Solid	8015 NM	
890-7531-3	H -3 (0-0.5')	Total/NA	Solid	8015 NM	
890-7531-4	H -4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7531-1	H -1 (0-0.5')	Soluble	Solid	DI Leach	
890-7531-2	H -2 (0-0.5')	Soluble	Solid	DI Leach	
890-7531-3	H -3 (0-0.5')	Soluble	Solid	DI Leach	
890-7531-4	H -4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-99574/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99574/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99574/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7529-A-30-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7529-A-30-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 99671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7531-1	H -1 (0-0.5')	Soluble	Solid	300.0	99574
890-7531-2	H -2 (0-0.5')	Soluble	Solid	300.0	99574
890-7531-3	H -3 (0-0.5')	Soluble	Solid	300.0	99574
890-7531-4	H -4 (0-0.5')	Soluble	Solid	300.0	99574
MB 880-99574/1-A	Method Blank	Soluble	Solid	300.0	99574
LCS 880-99574/2-A	Lab Control Sample	Soluble	Solid	300.0	99574
LCSD 880-99574/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99574
890-7529-A-30-C MS	Matrix Spike	Soluble	Solid	300.0	99574
890-7529-A-30-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	99574

Lab Chronicle

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7531-1
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99674	01/06/25 18:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			99848	01/08/25 14:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 14:16	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 20:52	CH	EET MID

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

Lab Sample ID: 890-7531-2
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99674	01/06/25 18:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99848	01/08/25 14:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 14:31	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 21:00	CH	EET MID

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

Lab Sample ID: 890-7531-3
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99674	01/06/25 18:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			99848	01/08/25 14:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 14:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 21:08	CH	EET MID

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

Lab Sample ID: 890-7531-4
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

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	99528	01/06/25 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99489	01/06/25 19:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99674	01/06/25 19:13	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

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

Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:53

Lab Sample ID: 890-7531-4

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			99848	01/08/25 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	99582	01/06/25 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99763	01/08/25 15:01	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99574	01/06/25 13:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99671	01/08/25 21:16	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: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7531-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7531-1	H -1 (0-0.5')	Solid	01/03/25 00:00	01/03/25 14:53
890-7531-2	H -2 (0-0.5')	Solid	01/03/25 00:00	01/03/25 14:53
890-7531-3	H -3 (0-0.5')	Solid	01/03/25 00:00	01/03/25 14:53
890-7531-4	H -4 (0-0.5')	Solid	01/03/25 00:00	01/03/25 14:53

Chain of Custody

Work Order No: _____

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Mosaic 34 Federal 2H Battery	Turn Around	
Project Number:	2600	☑ Routine ☐ Rush	
Project Location	Eddy Co, NM	Due Date:	Normal
Sampler's Name:	KR	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.4
Total Containers:		Corrected Temperature:	1.2

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0
H-1 (0-0.5')	1/3/2025		X		G	1	X	X	X
H-2 (0-0.5')	1/3/2025		X		G	1	X	X	X
H-3 (0-0.5')	1/3/2025		X		G	1	X	X	X
H-4 (0-0.5')	1/3/2025		X		G	1	X	X	X

Pres. Code / Parameters / ANALYSIS REQUEST

890-7531 Chain of Custody

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Kevin Reyes		14:32 1/3	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-7531-1
SDG Number: Eddy Co, NM

Login Number: 7531
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-7531-1
SDG Number: Eddy Co, NM

Login Number: 7531
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 01/06/25 09:31 AM

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/8/2025 9:55:42 AM

JOB DESCRIPTION

Mosaic 34 Federal 2H Battery
Eddy Co, NM

JOB NUMBER

890-7532-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

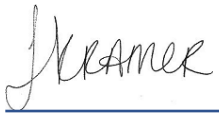
Eurofins Carlsbad

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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1/8/2025 9:55:42 AM

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

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Laboratory Job ID: 890-7532-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources Job ID: 890-7532-1
Project: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1 Eurofins Carlsbad

Job Narrative
890-7532-1

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 1/3/2025 2:37 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 4.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S - 1 (0 - 0.5") (890-7532-1), S - 1 (0.5'-1.0') (890-7532-2), S - 1 (1.25') R (890-7532-3), S - 2 (0 - 0.5') (890-7532-4), S - 2 (0.5'-1.0') (890-7532-5), S - 2 (1.25') R (890-7532-6), S - 3 (0 - 0.5') (890-7532-7), S - 3 (0.5'-1.0') (890-7532-8) and S - 3 (1.25') R (890-7532-9).

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99661/2-A) and (LCSD 880-99661/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99661 and analytical batch 880-99653 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: Surrogate recovery for the following sample was outside control limits: S - 2 (1.25') R (890-7532-6). 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 for preparation batch 880-99687 and analytical batch 880-99696 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.

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7532-1
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 10:10	01/07/25 22:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/07/25 10:10	01/07/25 22:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/07/25 10:10	01/07/25 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/07/25 10:10*	*01/07/25 22:33*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/07/25 10:10*	*01/07/25 22:33*	*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			01/07/25 22:33	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			01/07/25 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		01/07/25 09:48	01/07/25 21:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/07/25 09:48	01/07/25 21:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/07/25 09:48*	*01/07/25 21:15*	*1*
o-Terphenyl	*75*		*70 - 130*	*01/07/25 09:48*	*01/07/25 21:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**127**	**F1**	10.0		mg/Kg			01/07/25 19:36	1

Client Sample ID: S - 1 (0.5'-1.0')

Lab Sample ID: 890-7532-2
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 10:10	01/07/25 22:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/07/25 22:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/07/25 22:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/07/25 22:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/07/25 22:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/07/25 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/07/25 10:10*	*01/07/25 22:54*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/07/25 10:10*	*01/07/25 22:54*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Client Sample ID: S - 1 (0.5'-1.0')

Lab Sample ID: 890-7532-2
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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			01/07/25 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/07/25 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		01/07/25 09:48	01/07/25 21:31	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		01/07/25 09:48	01/07/25 21:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 09:48	01/07/25 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/07/25 09:48*	*01/07/25 21:31*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/07/25 09:48*	*01/07/25 21:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		10.0		mg/Kg			01/07/25 19:53	1

Client Sample ID: S - 1 (1.25') R

Lab Sample ID: 890-7532-3
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 10:10	01/07/25 23:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/07/25 23:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/07/25 23:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/07/25 23:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/07/25 23:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/07/25 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/07/25 10:10*	*01/07/25 23:14*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/07/25 10:10*	*01/07/25 23:14*	*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			01/07/25 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/07/25 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		01/07/25 09:48	01/07/25 21:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/07/25 09:48	01/07/25 21:45	1

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Client Sample ID: S - 1 (1.25') R

Lab Sample ID: 890-7532-3
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 09:48	01/07/25 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*01/07/25 09:48*	*01/07/25 21:45*	*1*
o-Terphenyl	*74*		*70 - 130*	*01/07/25 09:48*	*01/07/25 21:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**172**		9.98		mg/Kg			01/07/25 19:59	1

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

Lab Sample ID: 890-7532-4
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 10:10	01/07/25 23:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/07/25 23:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/07/25 23:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/07/25 23:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/07/25 23:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/07/25 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/07/25 10:10*	*01/07/25 23:35*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/07/25 10:10*	*01/07/25 23:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/25 23:35	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			01/07/25 22:01	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	<49.8	U *+	49.8		mg/Kg		01/07/25 09:48	01/07/25 22:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/07/25 09:48	01/07/25 22:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/07/25 09:48	01/07/25 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*01/07/25 09:48*	*01/07/25 22:01*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/07/25 09:48*	*01/07/25 22:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**151**		9.94		mg/Kg			01/07/25 20:04	1

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Client Sample ID: S - 2 (0.5'-1.0')

Lab Sample ID: 890-7532-5
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 10:10	01/07/25 23:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/07/25 23:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/07/25 23:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/07/25 23:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/07/25 23:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/07/25 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/07/25 10:10*	*01/07/25 23:55*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/07/25 10:10*	*01/07/25 23:55*	*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			01/07/25 23:55	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			01/07/25 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		01/07/25 09:48	01/07/25 22:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/07/25 09:48	01/07/25 22:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/07/25 09:48*	*01/07/25 22:15*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/07/25 09:48*	*01/07/25 22:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**122**		10.0		mg/Kg			01/07/25 20:10	1

Client Sample ID: S - 2 (1.25') R

Lab Sample ID: 890-7532-6
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 10:10	01/08/25 00:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 00:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 00:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/08/25 00:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/25 10:10	01/08/25 00:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/25 10:10	01/08/25 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/07/25 10:10*	*01/08/25 00:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/07/25 10:10*	*01/08/25 00:16*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Client Sample ID: S - 2 (1.25') R

Lab Sample ID: 890-7532-6
Date Collected: 01/03/25 00:00
Matrix: Solid
Date Received: 01/03/25 14:37

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			01/08/25 00:16	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			01/07/25 22:30	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	<50.0	U *+	50.0		mg/Kg		01/07/25 09:48	01/07/25 22:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/07/25 09:48	01/07/25 22:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*01/07/25 09:48*	*01/07/25 22:30*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*01/07/25 09:48*	*01/07/25 22:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		10.1		mg/Kg			01/07/25 20:27	1

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

Lab Sample ID: 890-7532-7
Date Collected: 01/03/25 00:00
Matrix: Solid
Date Received: 01/03/25 14:37

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		01/07/25 10:10	01/08/25 00:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/25 10:10	01/08/25 00:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/25 10:10	01/08/25 00:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/07/25 10:10	01/08/25 00:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/25 10:10	01/08/25 00:36	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/07/25 10:10	01/08/25 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/07/25 10:10*	*01/08/25 00:36*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/07/25 10:10*	*01/08/25 00:36*	*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			01/08/25 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/07/25 23:00	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		01/07/25 09:48	01/07/25 23:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/07/25 09:48	01/07/25 23:00	1

Eurofins Carlsbad

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7532-7
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 09:48	01/07/25 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/07/25 09:48*	*01/07/25 23:00*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/07/25 09:48*	*01/07/25 23:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		9.98		mg/Kg			01/07/25 20:33	1

Client Sample ID: S - 3 (0.5'-1.0')

Lab Sample ID: 890-7532-8
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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		01/07/25 10:10	01/08/25 00:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/07/25 10:10	01/08/25 00:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/07/25 10:10	01/08/25 00:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/07/25 10:10	01/08/25 00:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/07/25 10:10	01/08/25 00:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/07/25 10:10	01/08/25 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/07/25 10:10*	*01/08/25 00:57*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/07/25 10:10*	*01/08/25 00:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/08/25 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**149**		49.9		mg/Kg			01/07/25 23:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9		mg/Kg		01/07/25 09:48	01/07/25 23:16	1
Diesel Range Organics (Over C10-C28)	**149**	***+**	49.9		mg/Kg		01/07/25 09:48	01/07/25 23:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/25 09:48	01/07/25 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*01/07/25 09:48*	*01/07/25 23:16*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/07/25 09:48*	*01/07/25 23:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		10.0		mg/Kg			01/07/25 20:38	1

Client Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Client Sample ID: S - 3 (1.25') R

Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

Lab Sample ID: 890-7532-9

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		01/07/25 10:10	01/08/25 01:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 01:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 01:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/08/25 01:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/25 10:10	01/08/25 01:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/25 10:10	01/08/25 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/07/25 10:10*	*01/08/25 01:17*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/07/25 10:10*	*01/08/25 01:17*	*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			01/08/25 01:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/07/25 23:29	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		01/07/25 09:48	01/07/25 23:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		01/07/25 09:48	01/07/25 23:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/07/25 09:48	01/07/25 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/07/25 09:48*	*01/07/25 23:29*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/07/25 09:48*	*01/07/25 23:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**		9.98		mg/Kg			01/07/25 20:44	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7532-1	S - 1 (0 - 0.5")	106	96
890-7532-1 MS	S - 1 (0 - 0.5")	110	100
890-7532-1 MSD	S - 1 (0 - 0.5")	94	100
890-7532-2	S - 1 (0.5'-1.0')	93	95
890-7532-3	S - 1 (1.25') R	109	97
890-7532-4	S - 2 (0 - 0.5')	100	93
890-7532-5	S - 2 (0.5'-1.0')	106	93
890-7532-6	S - 2 (1.25') R	99	96
890-7532-7	S - 3 (0 - 0.5')	104	94
890-7532-8	S - 3 (0.5'-1.0')	99	97
890-7532-9	S - 3 (1.25') R	105	94
LCS 880-99662/1-A	Lab Control Sample	111	96
LCSD 880-99662/2-A	Lab Control Sample Dup	112	100
MB 880-99633/5-A	Method Blank	86	91
MB 880-99662/5-A	Method Blank	99	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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7532-1	S - 1 (0 - 0.5")	79	75
890-7532-2	S - 1 (0.5'-1.0')	80	76
890-7532-3	S - 1 (1.25') R	77	74
890-7532-4	S - 2 (0 - 0.5')	82	80
890-7532-5	S - 2 (0.5'-1.0')	80	76
890-7532-6	S - 2 (1.25') R	73	68 S1-
890-7532-7	S - 3 (0 - 0.5')	78	77
890-7532-8	S - 3 (0.5'-1.0')	75	79
890-7532-9	S - 3 (1.25') R	80	79
890-7542-A-16-D MS	Matrix Spike	84	81
890-7542-A-16-E MSD	Matrix Spike Duplicate	85	79
LCS 880-99661/2-A	Lab Control Sample	155 S1+	147 S1+
LCSD 880-99661/3-A	Lab Control Sample Dup	164 S1+	155 S1+
MB 880-99661/1-A	Method Blank	112	114

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99633/5-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 08:46	01/07/25 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 08:46	01/07/25 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/07/25 08:46*	*01/07/25 11:13*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/07/25 08:46*	*01/07/25 11:13*	*1*

Lab Sample ID: MB 880-99662/5-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/25 10:10	01/07/25 22:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/25 10:10	01/07/25 22:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/07/25 10:10*	*01/07/25 22:11*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/07/25 10:10*	*01/07/25 22:11*	*1*

Lab Sample ID: LCS 880-99662/1-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1118		mg/Kg		112	70 - 130
Toluene	0.100	0.1137		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2113		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1165		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-99662/2-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99662

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1125		mg/Kg		113	70 - 130	1	35

QC Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-99662/2-A
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99662

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1118		mg/Kg		112	70 - 130	2	35
Ethylbenzene			0.100	0.1088		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2089		mg/Kg		104	70 - 130	1	35
o-Xylene			0.100	0.1155		mg/Kg		115	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7532-1 MS
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: S - 1 (0 - 0.5")
Prep Type: Total/NA
Prep Batch: 99662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.1055		mg/Kg		106	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1010		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1918		mg/Kg		96	70 - 130
o-Xylene	<0.00200	U	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-7532-1 MSD
Matrix: Solid
Analysis Batch: 99625

Client Sample ID: S - 1 (0 - 0.5")
Prep Type: Total/NA
Prep Batch: 99662

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	0.1117		mg/Kg		112	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.1097		mg/Kg		110	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.1040		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1985		mg/Kg		99	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.1072		mg/Kg		107	70 - 130	3	35

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

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

Lab Sample ID: MB 880-99661/1-A
Matrix: Solid
Analysis Batch: 99653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99661

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		01/07/25 09:48	01/07/25 18:47	1

QC Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-99661/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99653 — **Prep Batch: 99661**

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		01/07/25 09:48	01/07/25 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/25 09:48	01/07/25 18:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*01/07/25 09:48*	*01/07/25 18:47*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/07/25 09:48*	*01/07/25 18:47*	*1*

Lab Sample ID: LCS 880-99661/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99653 — **Prep Batch: 99661**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1360	*+	mg/Kg		136	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1425	*+	mg/Kg		143	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*155*	*S1+*	*70 - 130*
o-Terphenyl	*147*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-99661/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99653 — **Prep Batch: 99661**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1412	*+	mg/Kg		141	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1450	*+	mg/Kg		145	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*164*	*S1+*	*70 - 130*
o-Terphenyl	*155*	*S1+*	*70 - 130*

Lab Sample ID: 890-7542-A-16-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99653 — **Prep Batch: 99661**

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	887.1		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	794.2		mg/Kg		80	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7542-A-16-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99653 — **Prep Batch: 99661**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	903.7		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	852.2		mg/Kg		85	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99687/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/07/25 19:19	1

Lab Sample ID: LCS 880-99687/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-99687/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99696

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.9		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 890-7532-1 MS — **Client Sample ID: S - 1 (0 - 0.5")**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	127	F1	250	455.8	F1	mg/Kg		131	90 - 110

Lab Sample ID: 890-7532-1 MSD — **Client Sample ID: S - 1 (0 - 0.5")**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 99696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	127	F1	250	456.0	F1	mg/Kg		132	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 99625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-1	S - 1 (0 - 0.5")	Total/NA	Solid	8021B	99662
890-7532-2	S - 1 (0.5'-1.0')	Total/NA	Solid	8021B	99662
890-7532-3	S - 1 (1.25') R	Total/NA	Solid	8021B	99662
890-7532-4	S - 2 (0 - 0.5')	Total/NA	Solid	8021B	99662
890-7532-5	S - 2 (0.5'-1.0')	Total/NA	Solid	8021B	99662
890-7532-6	S - 2 (1.25') R	Total/NA	Solid	8021B	99662
890-7532-7	S - 3 (0 - 0.5')	Total/NA	Solid	8021B	99662
890-7532-8	S - 3 (0.5'-1.0')	Total/NA	Solid	8021B	99662
890-7532-9	S - 3 (1.25') R	Total/NA	Solid	8021B	99662
MB 880-99633/5-A	Method Blank	Total/NA	Solid	8021B	99633
MB 880-99662/5-A	Method Blank	Total/NA	Solid	8021B	99662
LCS 880-99662/1-A	Lab Control Sample	Total/NA	Solid	8021B	99662
LCSD 880-99662/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99662
890-7532-1 MS	S - 1 (0 - 0.5")	Total/NA	Solid	8021B	99662
890-7532-1 MSD	S - 1 (0 - 0.5")	Total/NA	Solid	8021B	99662

Prep Batch: 99633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-99633/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 99662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-1	S - 1 (0 - 0.5")	Total/NA	Solid	5035	
890-7532-2	S - 1 (0.5'-1.0')	Total/NA	Solid	5035	
890-7532-3	S - 1 (1.25') R	Total/NA	Solid	5035	
890-7532-4	S - 2 (0 - 0.5')	Total/NA	Solid	5035	
890-7532-5	S - 2 (0.5'-1.0')	Total/NA	Solid	5035	
890-7532-6	S - 2 (1.25') R	Total/NA	Solid	5035	
890-7532-7	S - 3 (0 - 0.5')	Total/NA	Solid	5035	
890-7532-8	S - 3 (0.5'-1.0')	Total/NA	Solid	5035	
890-7532-9	S - 3 (1.25') R	Total/NA	Solid	5035	
MB 880-99662/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99662/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99662/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7532-1 MS	S - 1 (0 - 0.5")	Total/NA	Solid	5035	
890-7532-1 MSD	S - 1 (0 - 0.5")	Total/NA	Solid	5035	

Analysis Batch: 99779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-1	S - 1 (0 - 0.5")	Total/NA	Solid	Total BTEX	
890-7532-2	S - 1 (0.5'-1.0')	Total/NA	Solid	Total BTEX	
890-7532-3	S - 1 (1.25') R	Total/NA	Solid	Total BTEX	
890-7532-4	S - 2 (0 - 0.5')	Total/NA	Solid	Total BTEX	
890-7532-5	S - 2 (0.5'-1.0')	Total/NA	Solid	Total BTEX	
890-7532-6	S - 2 (1.25') R	Total/NA	Solid	Total BTEX	
890-7532-7	S - 3 (0 - 0.5')	Total/NA	Solid	Total BTEX	
890-7532-8	S - 3 (0.5'-1.0')	Total/NA	Solid	Total BTEX	
890-7532-9	S - 3 (1.25') R	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

GC Semi VOA

Analysis Batch: 99653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-1	S - 1 (0 - 0.5")	Total/NA	Solid	8015B NM	99661
890-7532-2	S - 1 (0.5'-1.0')	Total/NA	Solid	8015B NM	99661
890-7532-3	S - 1 (1.25') R	Total/NA	Solid	8015B NM	99661
890-7532-4	S - 2 (0 - 0.5')	Total/NA	Solid	8015B NM	99661
890-7532-5	S - 2 (0.5'-1.0')	Total/NA	Solid	8015B NM	99661
890-7532-6	S - 2 (1.25') R	Total/NA	Solid	8015B NM	99661
890-7532-7	S - 3 (0 - 0.5')	Total/NA	Solid	8015B NM	99661
890-7532-8	S - 3 (0.5'-1.0')	Total/NA	Solid	8015B NM	99661
890-7532-9	S - 3 (1.25') R	Total/NA	Solid	8015B NM	99661
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015B NM	99661
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99661
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99661
890-7542-A-16-D MS	Matrix Spike	Total/NA	Solid	8015B NM	99661
890-7542-A-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	99661

Prep Batch: 99661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-1	S - 1 (0 - 0.5")	Total/NA	Solid	8015NM Prep	
890-7532-2	S - 1 (0.5'-1.0')	Total/NA	Solid	8015NM Prep	
890-7532-3	S - 1 (1.25') R	Total/NA	Solid	8015NM Prep	
890-7532-4	S - 2 (0 - 0.5')	Total/NA	Solid	8015NM Prep	
890-7532-5	S - 2 (0.5'-1.0')	Total/NA	Solid	8015NM Prep	
890-7532-6	S - 2 (1.25') R	Total/NA	Solid	8015NM Prep	
890-7532-7	S - 3 (0 - 0.5')	Total/NA	Solid	8015NM Prep	
890-7532-8	S - 3 (0.5'-1.0')	Total/NA	Solid	8015NM Prep	
890-7532-9	S - 3 (1.25') R	Total/NA	Solid	8015NM Prep	
MB 880-99661/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99661/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7542-A-16-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7542-A-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-1	S - 1 (0 - 0.5")	Total/NA	Solid	8015 NM	
890-7532-2	S - 1 (0.5'-1.0')	Total/NA	Solid	8015 NM	
890-7532-3	S - 1 (1.25') R	Total/NA	Solid	8015 NM	
890-7532-4	S - 2 (0 - 0.5')	Total/NA	Solid	8015 NM	
890-7532-5	S - 2 (0.5'-1.0')	Total/NA	Solid	8015 NM	
890-7532-6	S - 2 (1.25') R	Total/NA	Solid	8015 NM	
890-7532-7	S - 3 (0 - 0.5')	Total/NA	Solid	8015 NM	
890-7532-8	S - 3 (0.5'-1.0')	Total/NA	Solid	8015 NM	
890-7532-9	S - 3 (1.25') R	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-1	S - 1 (0 - 0.5")	Soluble	Solid	DI Leach	
890-7532-2	S - 1 (0.5'-1.0')	Soluble	Solid	DI Leach	
890-7532-3	S - 1 (1.25') R	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 99687 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-4	S - 2 (0 - 0.5')	Soluble	Solid	DI Leach	
890-7532-5	S - 2 (0.5'-1.0')	Soluble	Solid	DI Leach	
890-7532-6	S - 2 (1.25') R	Soluble	Solid	DI Leach	
890-7532-7	S - 3 (0 - 0.5')	Soluble	Solid	DI Leach	
890-7532-8	S - 3 (0.5'-1.0')	Soluble	Solid	DI Leach	
890-7532-9	S - 3 (1.25') R	Soluble	Solid	DI Leach	
MB 880-99687/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7532-1 MS	S - 1 (0 - 0.5")	Soluble	Solid	DI Leach	
890-7532-1 MSD	S - 1 (0 - 0.5")	Soluble	Solid	DI Leach	

Analysis Batch: 99696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7532-1	S - 1 (0 - 0.5")	Soluble	Solid	300.0	99687
890-7532-2	S - 1 (0.5'-1.0')	Soluble	Solid	300.0	99687
890-7532-3	S - 1 (1.25') R	Soluble	Solid	300.0	99687
890-7532-4	S - 2 (0 - 0.5')	Soluble	Solid	300.0	99687
890-7532-5	S - 2 (0.5'-1.0')	Soluble	Solid	300.0	99687
890-7532-6	S - 2 (1.25') R	Soluble	Solid	300.0	99687
890-7532-7	S - 3 (0 - 0.5')	Soluble	Solid	300.0	99687
890-7532-8	S - 3 (0.5'-1.0')	Soluble	Solid	300.0	99687
890-7532-9	S - 3 (1.25') R	Soluble	Solid	300.0	99687
MB 880-99687/1-A	Method Blank	Soluble	Solid	300.0	99687
LCS 880-99687/2-A	Lab Control Sample	Soluble	Solid	300.0	99687
LCSD 880-99687/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99687
890-7532-1 MS	S - 1 (0 - 0.5")	Soluble	Solid	300.0	99687
890-7532-1 MSD	S - 1 (0 - 0.5")	Soluble	Solid	300.0	99687

Lab Chronicle

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Client Sample ID: S - 1 (0 - 0.5") — Lab Sample ID: 890-7532-1

Date Collected: 01/03/25 00:00 — **Matrix: Solid**
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/07/25 22:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/07/25 22:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99767	01/07/25 21:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 21:15	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 19:36	CH	EET MID

Client Sample ID: S - 1 (0.5'-1.0') — Lab Sample ID: 890-7532-2

Date Collected: 01/03/25 00:00 — **Matrix: Solid**
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/07/25 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/07/25 22:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99767	01/07/25 21:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 21:31	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 19:53	CH	EET MID

Client Sample ID: S - 1 (1.25') R — Lab Sample ID: 890-7532-3

Date Collected: 01/03/25 00:00 — **Matrix: Solid**
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/07/25 23:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/07/25 23:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99767	01/07/25 21:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 21:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 19:59	CH	EET MID

Client Sample ID: S - 2 (0 - 0.5') — Lab Sample ID: 890-7532-4

Date Collected: 01/03/25 00:00 — **Matrix: Solid**
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/07/25 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/07/25 23:35	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7532-4
Date Collected: 01/03/25 00:00
Matrix: Solid
Date Received: 01/03/25 14:37

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			99767	01/07/25 22:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 22:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 20:04	CH	EET MID

Client Sample ID: S - 2 (0.5'-1.0')

Lab Sample ID: 890-7532-5
Date Collected: 01/03/25 00:00
Matrix: Solid
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/07/25 23:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/07/25 23:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			99767	01/07/25 22:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 22:15	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 20:10	CH	EET MID

Client Sample ID: S - 2 (1.25') R

Lab Sample ID: 890-7532-6
Date Collected: 01/03/25 00:00
Matrix: Solid
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/08/25 00:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99767	01/07/25 22:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 22:30	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 20:27	CH	EET MID

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

Lab Sample ID: 890-7532-7
Date Collected: 01/03/25 00:00
Matrix: Solid
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 00:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/08/25 00:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			99767	01/07/25 23:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 23:00	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7532-7
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 20:33	CH	EET MID

Client Sample ID: S - 3 (0.5'-1.0')

Lab Sample ID: 890-7532-8
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 00:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/08/25 00:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			99767	01/07/25 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 23:16	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 20:38	CH	EET MID

Client Sample ID: S - 3 (1.25') R

Lab Sample ID: 890-7532-9
Matrix: Solid
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 14:37

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	99662	01/07/25 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99625	01/08/25 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99779	01/08/25 01:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			99767	01/07/25 23:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99661	01/07/25 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99653	01/07/25 23:29	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99687	01/07/25 13:34	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99696	01/07/25 20:44	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: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Mosaic 34 Federal 2H Battery

Job ID: 890-7532-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7532-1	S - 1 (0 - 0.5")	Solid	01/03/25 00:00	01/03/25 14:37
890-7532-2	S - 1 (0.5'-1.0')	Solid	01/03/25 00:00	01/03/25 14:37
890-7532-3	S - 1 (1.25') R	Solid	01/03/25 00:00	01/03/25 14:37
890-7532-4	S - 2 (0 - 0.5')	Solid	01/03/25 00:00	01/03/25 14:37
890-7532-5	S - 2 (0.5'-1.0')	Solid	01/03/25 00:00	01/03/25 14:37
890-7532-6	S - 2 (1.25') R	Solid	01/03/25 00:00	01/03/25 14:37
890-7532-7	S - 3 (0 - 0.5')	Solid	01/03/25 00:00	01/03/25 14:37
890-7532-8	S - 3 (0.5'-1.0')	Solid	01/03/25 00:00	01/03/25 14:37
890-7532-9	S - 3 (1.25') R	Solid	01/03/25 00:00	01/03/25 14:37

Chain of Custody

Work Order No: _____

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Mosaic 34 Federal 2H Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	2600	Due Date:	Normal
Project Location	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	KR		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.4
Total Containers:		Corrected Temperature:	4.2

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	HOLD	Sample Comments
S-1 (0-0.5')	1/3/2025		X		G	1		X	X	X		
S-1 (0.5'-1.0')	1/3/2025		X		G	1		X	X	X		
S-1 (1.25') R	1/3/2025		X		G	1		X	X	X		
S-2 (0-0.5')	1/3/2025		X		G	1		X	X	X		
S-2 (0.5'-1.0')	1/3/2025		X		G	1		X	X	X		
S-2 (1.25') R	1/3/2025		X		G	1		X	X	X		
S-3 (0-0.5')	1/3/2025		X		G	1		X	X	X		
S-3 (0.5'-1.0')	1/3/2025		X		G	1		X	X	X		
S-3 (1.25') R	1/3/2025		X		G	1		X	X	X		

890-7532 Chain of Custody

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		14:32 1/3			
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-4475.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-7532-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 1/9/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Mosaic 34 Federal 2H Battery	Project #: 89000196			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	8015MOD_NM/8015NM_S_Prep Full TPH	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
S - 1 (0 - 0.5") (890-7532-1)	1/3/25	Central	G	Solid			X	X	X	X	X	1	
S - 1 (0.5'-1.0') (890-7532-2)	1/3/25	Central	G	Solid			X	X	X	X	X	1	
S - 1 (1.25') R (890-7532-3)	1/3/25	Central	G	Solid			X	X	X	X	X	1	
S - 2 (0 - 0.5') (890-7532-4)	1/3/25	Central	G	Solid			X	X	X	X	X	1	
S - 2 (0.5'-1.0') (890-7532-5)	1/3/25	Central	G	Solid			X	X	X	X	X	1	
S - 2 (1.25') R (890-7532-6)	1/3/25	Central	G	Solid			X	X	X	X	X	1	
S - 3 (0 - 0.5') (890-7532-7)	1/3/25	Central	G	Solid			X	X	X	X	X	1	
S - 3 (0.5'-1.0') (890-7532-8)	1/3/25	Central	G	Solid			X	X	X	X	X	1	
S - 3 (1.25') R (890-7532-9)	1/3/25	Central	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-7532-1
SDG Number: Eddy Co, NM

Login Number: 7532
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 890-7532-1
SDG Number: Eddy Co, NM

Login Number: 7532
List Number: 2
Creator: Lee, Randell

List Source: Eurofins Midland
List Creation: 01/07/25 08:12 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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").	True	

CARDINAL Laboratories

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

January 23, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MOSAIC 34 FEDERAL 2H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/21/25 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	01/21/2025	Sampling Date:	01/20/2025
Reported:	01/23/2025	Sampling Type:	Soil
Project Name:	MOSAIC 34 FEDERAL 2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	2600	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: CS - 1 (1.5') (H250346-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.97	98.4	2.00	9.07	
Toluene*	<0.050	0.050	01/22/2025	ND	1.94	97.2	2.00	8.76	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	2.01	100	2.00	7.20	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	6.11	102	6.00	6.12	
Total BTEX	<0.300	0.300	01/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/22/2025	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane *74.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *70.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	01/21/2025	Sampling Date:	01/20/2025
Reported:	01/23/2025	Sampling Type:	Soil
Project Name:	MOSAIC 34 FEDERAL 2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	2600	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: CS - 2 (1.5') (H250346-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.97	98.4	2.00	9.07	
Toluene*	<0.050	0.050	01/22/2025	ND	1.94	97.2	2.00	8.76	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	2.01	100	2.00	7.20	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	6.11	102	6.00	6.12	
Total BTEX	<0.300	0.300	01/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *125 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/22/2025	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane *82.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	01/21/2025	Sampling Date:	01/20/2025
Reported:	01/23/2025	Sampling Type:	Soil
Project Name:	MOSAIC 34 FEDERAL 2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	2600	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 1 (1.5') (H250346-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.97	98.4	2.00	9.07	
Toluene*	<0.050	0.050	01/22/2025	ND	1.94	97.2	2.00	8.76	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	2.01	100	2.00	7.20	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	6.11	102	6.00	6.12	
Total BTEX	<0.300	0.300	01/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/22/2025	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane *76.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	01/21/2025	Sampling Date:	01/20/2025
Reported:	01/23/2025	Sampling Type:	Soil
Project Name:	MOSAIC 34 FEDERAL 2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	2600	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 2 (1.5') (H250346-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.97	98.4	2.00	9.07	
Toluene*	<0.050	0.050	01/22/2025	ND	1.94	97.2	2.00	8.76	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	2.01	100	2.00	7.20	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	6.11	102	6.00	6.12	
Total BTEX	<0.300	0.300	01/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *123 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/22/2025	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane *80.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	01/21/2025	Sampling Date:	01/20/2025
Reported:	01/23/2025	Sampling Type:	Soil
Project Name:	MOSAIC 34 FEDERAL 2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	2600	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 3 (1.5') (H250346-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.97	98.4	2.00	9.07	
Toluene*	<0.050	0.050	01/22/2025	ND	1.94	97.2	2.00	8.76	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	2.01	100	2.00	7.20	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	6.11	102	6.00	6.12	
Total BTEX	<0.300	0.300	01/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	01/22/2025	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane *74.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *70.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	01/21/2025	Sampling Date:	01/20/2025
Reported:	01/23/2025	Sampling Type:	Soil
Project Name:	MOSAIC 34 FEDERAL 2H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	2600	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: SW - 4 (1.5') (H250346-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2025	ND	1.97	98.4	2.00	9.07	
Toluene*	<0.050	0.050	01/22/2025	ND	1.94	97.2	2.00	8.76	
Ethylbenzene*	<0.050	0.050	01/22/2025	ND	2.01	100	2.00	7.20	
Total Xylenes*	<0.150	0.150	01/22/2025	ND	6.11	102	6.00	6.12	
Total BTEX	<0.300	0.300	01/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *122 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/22/2025	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane *78.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *73.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H350346

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Mosaic 34 Federal 2H Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	2600	Due Date:	Normal
Project Location	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	KR		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.6°C
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.9°C
Total Containers:		Corrected Temperature:	4.3°C

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
CS-1 (1.5')	1/20/2025		X		Comp	1		X	X	X		
CS-2 (1.5')	1/20/2025		X		Comp	1		X	X	X		
SW-1 (1.5')	1/20/2025		X		Comp	1		X	X	X		
SW-2 (1.5')	1/20/2025		X		Comp	1		X	X	X		
SW-3 (1.5')	1/20/2025		X		Comp	1		X	X	X		
SW-4 (1.5')	1/20/2025		X		Comp	1		X	X	X		

1 2 3 4 5 6

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Kevin Davis		1-21-25 1550	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/27/2024 12:28:49 PM

JOB DESCRIPTION

Bonnie 35 Federal Com #4H
Eddy Co, NM

JOB NUMBER

880-52552-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
12/27/2024 12:28:49 PM

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

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Laboratory Job ID: 880-52552-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1

Job ID: 880-52552-1 Eurofins Midland

Job Narrative
880-52552-1

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 12/20/2024 1:42 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 -4.5°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: Fred Beard Backfill (880-52552-1).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98490 and analytical batch 880-98345 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 880-98771 and analytical batch 880-98813 was outside the control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98771 and analytical batch 880-98813 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-98813 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-98813/21).

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

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

Client Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

Client Sample ID: Fred Beard Backfill

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52552-1

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		12/20/24 14:34	12/21/24 14:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 14:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 14:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 14:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/20/24 14:34*	*12/21/24 14:11*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*12/20/24 14:34*	*12/21/24 14:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/21/24 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/26/24 17:20	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	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 17:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 17:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/26/24 07:53	12/26/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/26/24 07:53*	*12/26/24 17:20*	*1*
o-Terphenyl	*89*		*70 - 130*	*12/26/24 07:53*	*12/26/24 17:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.3**		10.0		mg/Kg			12/21/24 03:57	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-52521-A-1-A MS	Matrix Spike	88	100
880-52521-A-1-B MSD	Matrix Spike Duplicate	88	102
880-52552-1	Fred Beard Backfill	82	89
LCS 880-98490/1-A	Lab Control Sample	109	118
LCSD 880-98490/2-A	Lab Control Sample Dup	117	107
MB 880-98440/5-A	Method Blank	78	94
MB 880-98490/5-A	Method Blank	81	91

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-52552-1	Fred Beard Backfill	88	89
890-7504-A-14-F MS	Matrix Spike	85	79
890-7504-A-14-G MSD	Matrix Spike Duplicate	74	77
LCS 880-98771/2-A	Lab Control Sample	90	91
LCSD 880-98771/3-A	Lab Control Sample Dup	96	96
MB 880-98771/1-A	Method Blank	68 S1-	67 S1-

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98440/5-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98440

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*12/20/24 09:23*	*12/20/24 21:40*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 09:23*	*12/20/24 21:40*	*1*

Lab Sample ID: MB 880-98490/5-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 14:34	12/21/24 08:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:19*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:19*	*1*

Lab Sample ID: LCS 880-98490/1-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1160		mg/Kg		116	70 - 130
Toluene	0.100	0.1140		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1187		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2351		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-98490/2-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1195		mg/Kg		120	70 - 130	3	35

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-98490/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1153		mg/Kg		115	70 - 130	1	35
Ethylbenzene			0.100	0.1280		mg/Kg		128	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2529		mg/Kg		126	70 - 130	7	35
o-Xylene			0.100	0.1237		mg/Kg		124	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-52521-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0996	0.05584	F1	mg/Kg		56	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05398	F1	mg/Kg		54	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.04661	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.09456	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.04909	F1	mg/Kg		49	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-52521-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.07129		mg/Kg		71	70 - 130	24	35
Toluene	<0.00199	U F1	0.101	0.06693	F1	mg/Kg		66	70 - 130	21	35
Ethylbenzene	<0.00199	U F1	0.101	0.05772	F1	mg/Kg		57	70 - 130	21	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1169	F1	mg/Kg		58	70 - 130	21	35
o-Xylene	<0.00199	U F1	0.101	0.05872	F1	mg/Kg		58	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-98771/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-98771/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

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		12/26/24 07:53	12/26/24 11:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/26/24 07:53	12/26/24 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*12/26/24 07:53*	*12/26/24 11:27*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*12/26/24 07:53*	*12/26/24 11:27*	*1*

Lab Sample ID: LCS 880-98771/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	905.0		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	808.1		mg/Kg		81	70 - 130		

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

Lab Sample ID: LCSD 880-98771/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.7		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	855.9		mg/Kg		86	70 - 130	6	20

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

Lab Sample ID: 890-7504-A-14-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	549.5	F1	mg/Kg		55	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	559.1	F1	mg/Kg		56	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-7504-A-14-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98813 — **Prep Batch: 98771**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	538.1	F1	mg/Kg		54	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	570.7	F1	mg/Kg		57	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*74*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98524/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/21/24 03:21	1

Lab Sample ID: LCS 880-98524/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.5		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-98524/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.4		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-52526-A-16-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	265		252	523.5		mg/Kg		103	90 - 110

Lab Sample ID: 880-52526-A-16-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 98529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	265		252	524.1		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 98345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52552-1	Fred Beard Backfill	Total/NA	Solid	8021B	98490
MB 880-98440/5-A	Method Blank	Total/NA	Solid	8021B	98440
MB 880-98490/5-A	Method Blank	Total/NA	Solid	8021B	98490
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	8021B	98490
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98490
880-52521-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	98490
880-52521-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	98490

Prep Batch: 98440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98440/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52552-1	Fred Beard Backfill	Total/NA	Solid	5035	
MB 880-98490/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52521-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-52521-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 98752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52552-1	Fred Beard Backfill	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52552-1	Fred Beard Backfill	Total/NA	Solid	8015NM Prep	
MB 880-98771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7504-A-14-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7504-A-14-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52552-1	Fred Beard Backfill	Total/NA	Solid	8015B NM	98771
MB 880-98771/1-A	Method Blank	Total/NA	Solid	8015B NM	98771
LCS 880-98771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98771
LCSD 880-98771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98771
890-7504-A-14-F MS	Matrix Spike	Total/NA	Solid	8015B NM	98771
890-7504-A-14-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	98771

Analysis Batch: 98944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52552-1	Fred Beard Backfill	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

HPLC/IC

Leach Batch: 98524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52552-1	Fred Beard Backfill	Soluble	Solid	DI Leach	
MB 880-98524/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98524/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98524/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52526-A-16-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-52526-A-16-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 98529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52552-1	Fred Beard Backfill	Soluble	Solid	300.0	98524
MB 880-98524/1-A	Method Blank	Soluble	Solid	300.0	98524
LCS 880-98524/2-A	Lab Control Sample	Soluble	Solid	300.0	98524
LCSD 880-98524/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98524
880-52526-A-16-C MS	Matrix Spike	Soluble	Solid	300.0	98524
880-52526-A-16-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	98524

Lab Chronicle

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

Client Sample ID: Fred Beard Backfill

Date Collected: 12/20/24 00:00
Date Received: 12/20/24 13:42

Lab Sample ID: 880-52552-1

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			5.02 g	5 mL	98490	12/20/24 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98752	12/21/24 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			98944	12/26/24 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98771	12/26/24 07:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98813	12/26/24 17:20	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98524	12/20/24 15:32	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98529	12/21/24 03:57	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: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0		Solid	Chloride
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
8021B	5035	Solid	Benzene
8021B	5035	Solid	Ethylbenzene
8021B	5035	Solid	m-Xylene & p-Xylene
8021B	5035	Solid	o-Xylene
8021B	5035	Solid	Toluene
8021B	5035	Solid	Xylenes, Total
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Bonnie 35 Federal Com #4H

Job ID: 880-52552-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-52552-1	Fred Beard Backfill	Solid	12/20/24 00:00	12/20/24 13:42

Chain of Custody

880-52552 Chain of Custody

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Bonnie 35 Federal Com #4H	Turn Around	
Project Number:	2084	☐ Routine	☑ Rush
Project Location	Eddy Co, NM	Due Date:	48 Hrs
Sampler's Name:	CMM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	TR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-4.6
Total Containers:		Corrected Temperature:	-4.7

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Parameters
Fred Beard Backfill	12/20/2024		X		Comp	1		X	X	X	

Preservative Codes

None: NO; DI Water: H_2O
Cool: Cool; MeOH: Me
HCL: HC; HNO_3: HN
H_2S0_4: H_2; NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Cecile Mendez	12-20-24		12/20/24 1347

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-52552-1
SDG Number: Eddy Co, NM

Login Number: 52552
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	

From: Ashton Thielke
To: Wells, Shelly, EMNRD
Subject: [EXTERNAL] Re: NAPP2433932147 MOSAIC 34 FEDERAL 2H BATTERY
Date: Friday, January 31, 2025 11:36:16 AM

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

Good morning Shelly,

Yes, Kennedy (chevron) should have corrected the NOR and C-141 to the 2H as that is where it occurred. The 1H has been P/Ad and reclaimed. There is no facility at the 1H. The 2H is where the incident occurred.

Thanks!

Ashton Thielke
Environmental Manager
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659
ThielkeA@carmonaresources.com

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, January 31, 2025 12:31:37 PM
To: Ashton Thielke <ThielkeA@carmonaresources.com>
Subject: NAPP2433932147 MOSAIC 34 FEDERAL 2H BATTERY

Hi Ashton,

The NOR and initial C-141 for this release listed the release as occurring at the following coordinates: 32.167301,-104.07586 which according to the OCD Environmental map puts the release at Mosaic 34 Federal 1H. Your report however lists the location as 32.167806,-104.067389 which puts it at Mosaic 34 Federal 2H. I want to confirm the correct location before I proceed with my review.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov

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Santa Fe, NM 87505

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 426728
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2433932147**
Incident Name	**NAPP2433932147 MOSAIC 34 FEDERAL 2H BATTERY @ 0**
Incident Type	**Fire**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2132240755] Mosaic 34 Federal 2H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MOSAIC 34 FEDERAL 2H BATTERY
Date Release Discovered	12/03/2024
Surface Owner	Private

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: Equipment Failure | Separator | 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 (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 426728
	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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 12/16/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 426728
	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)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	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 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
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)	194
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	149
GRO+DRO (EPA SW-846 Method 8015M)	149
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
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	01/20/2025
On what date will (or did) the final sampling or liner inspection occur	01/20/2025
On what date will (or was) the remediation complete(d)	01/20/2025
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	320
What is the estimated volume (in cubic yards) that will be remediated	22
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 (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 426728
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
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 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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 01/30/2025
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 (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 426728
	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

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 426728
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**421420**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/20/2025**
What was the (estimated) number of samples that were to be gathered	**6**
What was the sampling surface area in square feet	**350**

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	320
What was the total volume (cubic yards) remediated	22
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)	Area was excavated and remediated based off of initial site assessment results. Once composite confirmation sidewall and floor samples were received, the area was backfill with caliche and will be reclaimed/reseeded during P/A activities.

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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 01/30/2025

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QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 426728
	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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 426728

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 426728
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CONDITIONS

Created By	Condition	Condition Date
scwells	None	1/31/2025