

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Patron 23 Federal #004H (12.27.23)
Eddy County, New Mexico
Incident ID: nAPP2336154100
Unit A Sec 23 T25S R29E
32.1221°, -103.9485°

Crude Oil Release
Point of Release: Flare Fire on Pad
Release Date: 12.27.23
Volume Released: Unknown Barrels of Crude Oil
Volume Recovered: 0 Barrels of Crude Oil

CARMONA RESOURCES



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

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

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



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March 15, 2024

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

Re: Closure Report
Patron 23 Federal #004H (12.27.23)
Concho Operating, LLC
Incident ID: nAPP2336154100
Site Location: Unit A, S23, T25S, R29E
(Lat 32.1221°, Long -103.9485°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site activities for Patron 23 Federal #004H (12.27.23). The site is located at 32.1221°, -103.9485° within Unit A, S23, T25S, and R29E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on December 27, 2023, due to a flare fire on location. This released an unknown amount of crude oil with zero (0) barrels of crude oil recovered. Refer to Figure 3. The release was contained on the pad. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.02 miles Southwest of the site in S23, T25S, R29E and was drilled in 2021. The well has a reported depth to groundwater of 109' feet below the ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12, 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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Midland, Texas 79701
432.813.1992



4.0 Site Assessment Activities

Initial Assessment Activities

On February 13, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of four (4) horizontal sample points (H-1 through H-4) were advanced to depths ranging from the surface to 0.5' bgs outside of the release area to assess the horizontal extent. 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. 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 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

On February 21, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) test trenches (T-1 through T-3) were advanced to depths ranging from the surface to 3" bgs inside of the release area to assess the vertical 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 Permian Basin Environmental Labs in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

5.0 Remediation Activities

Carmona Resources personnel were on site to oversee excavation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD web portal on February 20, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of four (4) confirmation floor samples (CS-1 through CS-4) and eight (8) sidewall samples (SW-1 through SW-8) 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 Permian Basin Environmental Lab in Midland, Texas. All collected samples were analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. Refer to Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 750 square feet of contamination was remediated, resulting in 30 cubic yards of material excavated and transported offsite for proper disposal.

CARMONA RESOURCES



6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Ashton Thielke
Sr. Project Manager

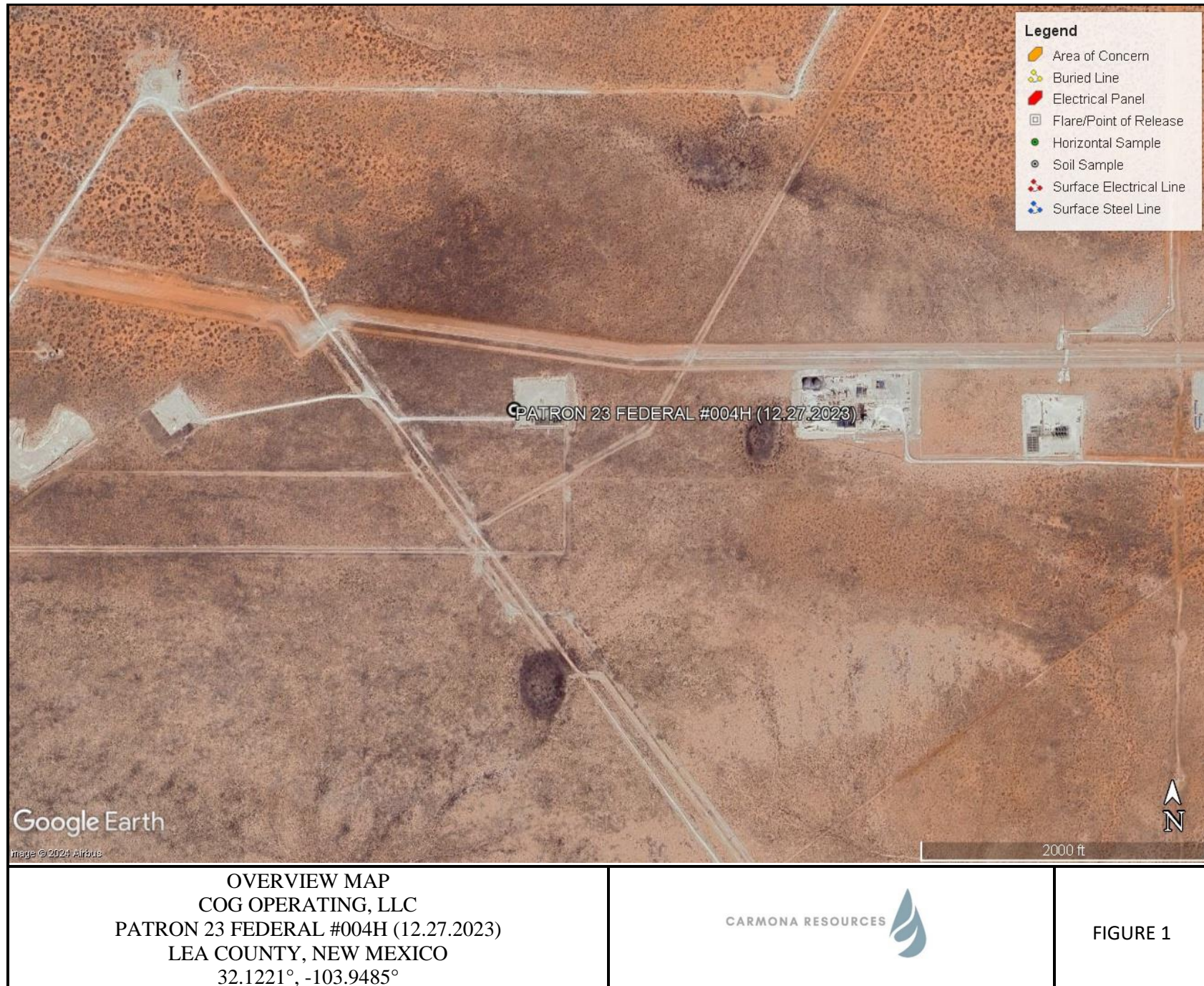
Conner Moehring
Sr. Project Manager

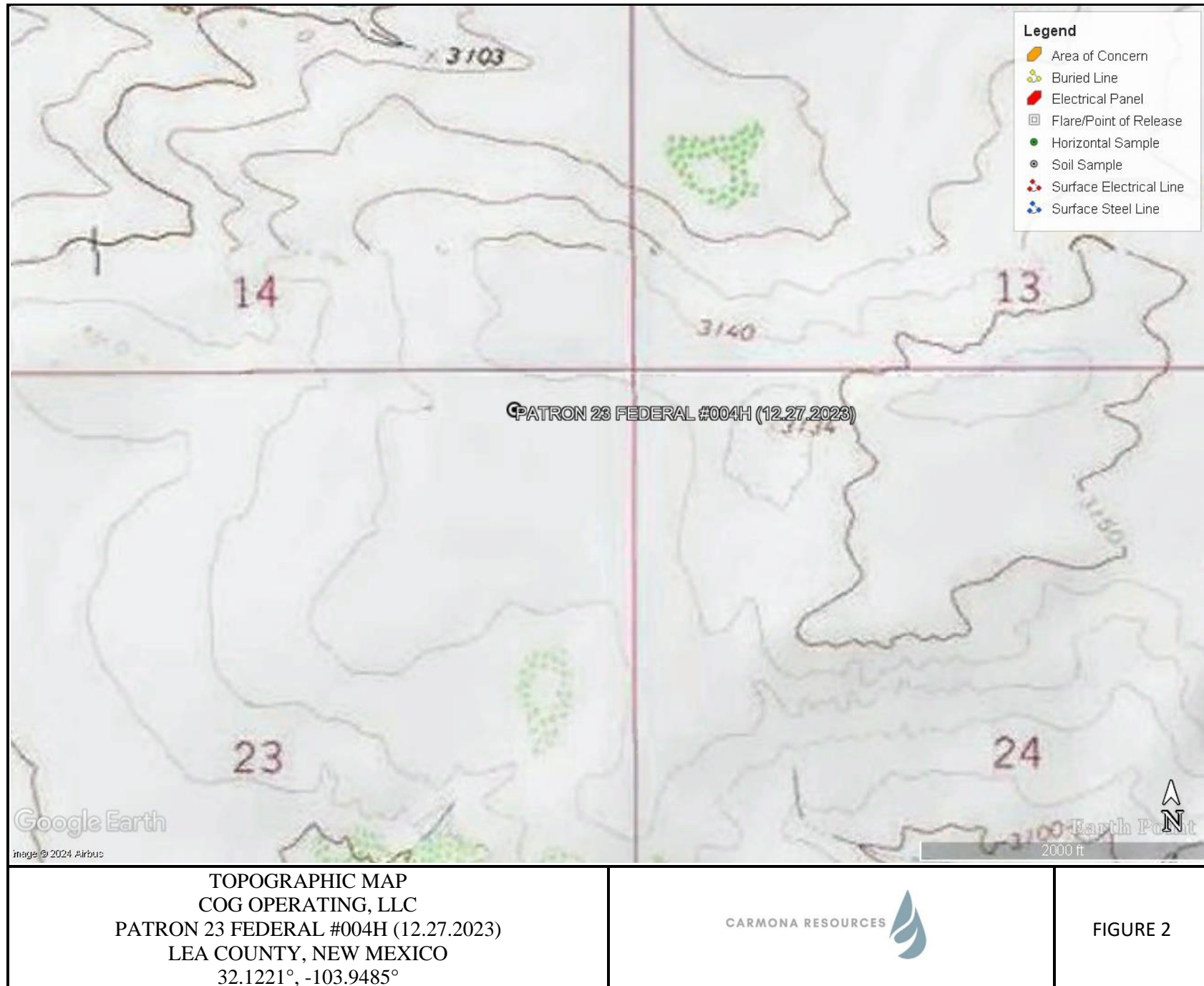
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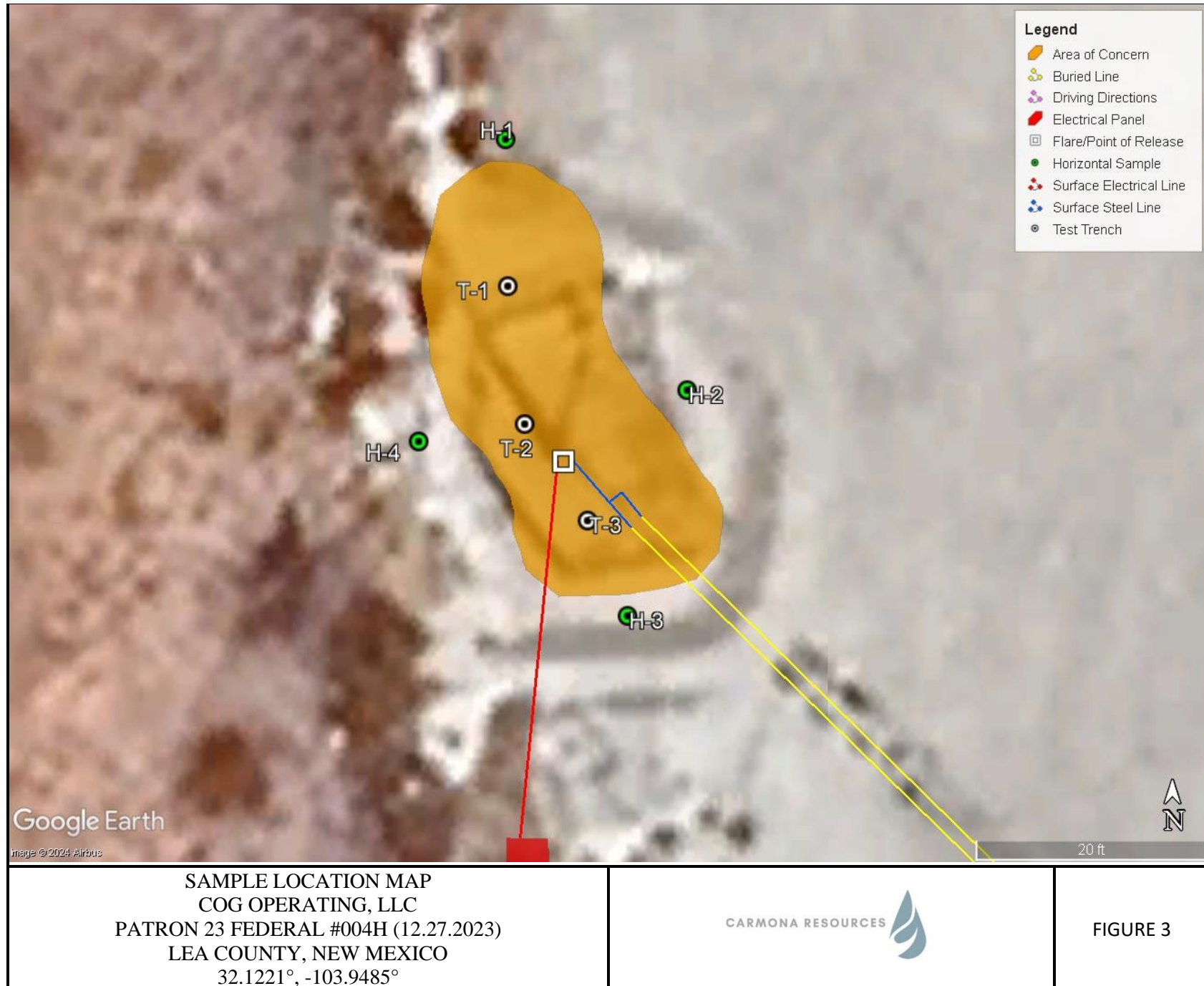
FIGURES

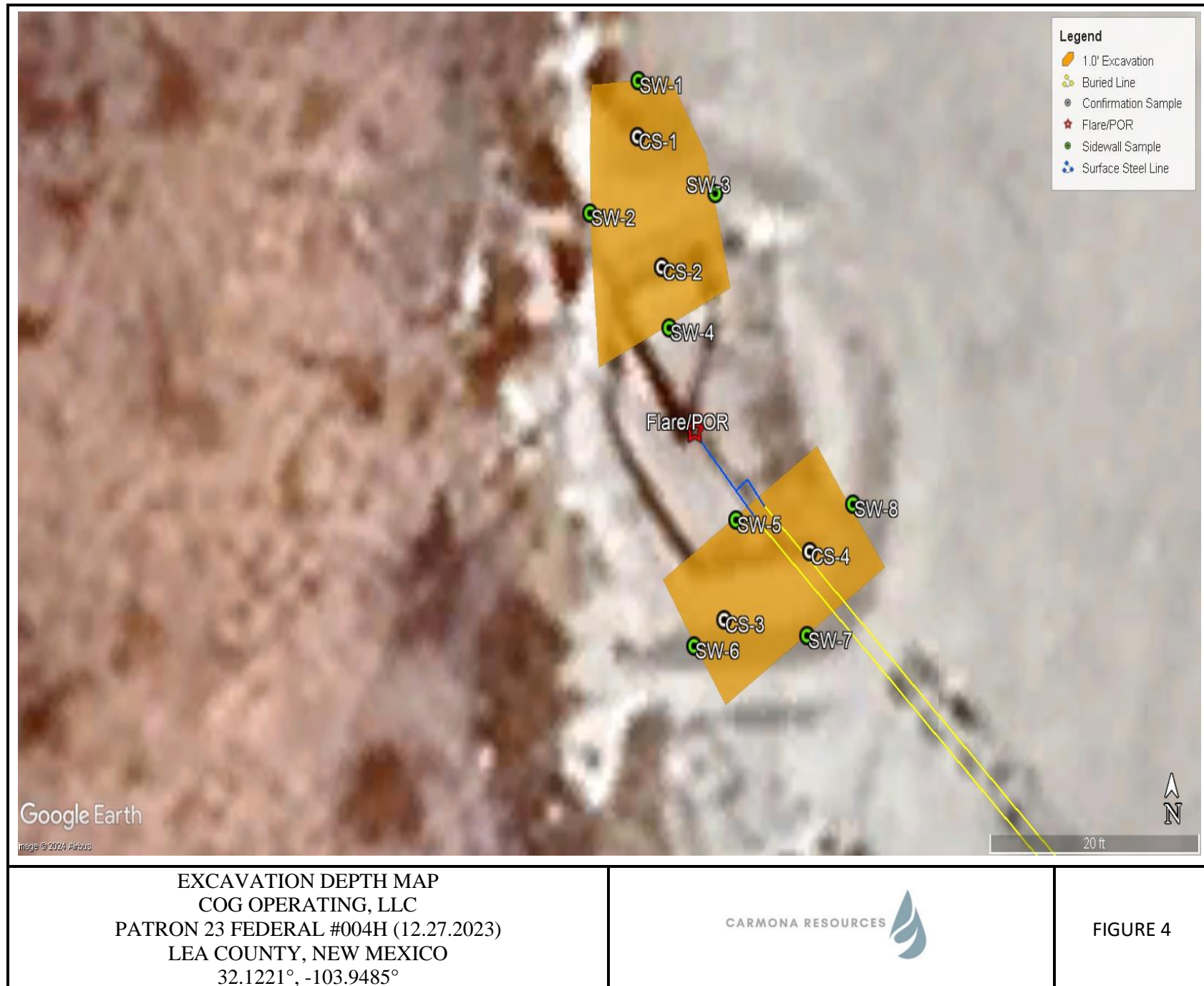
CARMONA RESOURCES











APPENDIX A

CARMONA RESOURCES



Table 1
COG Operating
Patron 23 Federal 004H (12.27.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	2/21/2024	0-3"	ND	ND	ND	ND	ND	ND	0.00466	0.00338	ND	1,930
T-2	2/21/2024	0-3"	ND	ND	ND	ND	ND	ND	0.00454	0.00368	ND	91.9
T-3	2/21/2024	0-3"	ND	ND	ND	ND	ND	ND	0.00441	0.00341	ND	1,650
H-1	2/13/2024	0-0.5	<10.0	54.0	17.0	71.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
H-2	2/13/2024	0-0.5	<10.0	54.3	19.7	74.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
H-3	2/13/2024	0-0.5	<10.0	1,140	547	1,687	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-4	2/13/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons
ft - feet

(T) Test Trench

(H) Horizontal Sample

Removed

Table 2
COG Operating
Patron 23 Federal 004H (12.27.23)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00454	0.00372	ND	10.3
CS-2	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00434	0.00357	ND	8.15
CS-3	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00415	0.00299	ND	8.70
CS-4	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00408	0.00329	ND	6.60
SW-1	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00384	0.00312	ND	14.8
SW-2	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00398	0.00339	ND	8.89
SW-3	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00349	0.00275	ND	12.0
SW-4	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00352	0.00273	ND	ND
SW-5	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.0033	0.00253	ND	38.9
SW-6	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00309	0.00254	ND	12.2
SW-7	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00326	0.00269	ND	38.7
SW-8	2/22/2024	1.0	ND	ND	ND	ND	ND	ND	0.00311	0.00264	ND	10.9
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Samples

(SW) Sidewall Samples

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

COG Operating

Photograph No. 1

Facility: Patron 23 Federal #004H (12.27.23)

County: Eddy County, New Mexico

Description:

View South, area of CS-1 and CS-2.



Photograph No. 2

Facility: Patron 23 Federal #004H (12.27.23)

County: Eddy County, New Mexico

Description:

View West, area of CS-1 and CS-2.



Photograph No. 3

Facility: Patron 23 Federal #004H (12.27.23)

County: Eddy County, New Mexico

Description:

View North, area of CS-3 and CS-4.



PHOTOGRAPHIC LOG

COG Operating

Photograph No. 4

Facility: Patron 23 Federal #004H (12.27.23)

County: Eddy County, New Mexico

Description:

View West, area of CS-3 and CS-4.



Photograph No. 5

Facility: Patron 23 Federal #004H (12.27.23)

County: Eddy County, New Mexico

Description:

View South, area of CS-1 and CS-2 backfilled.



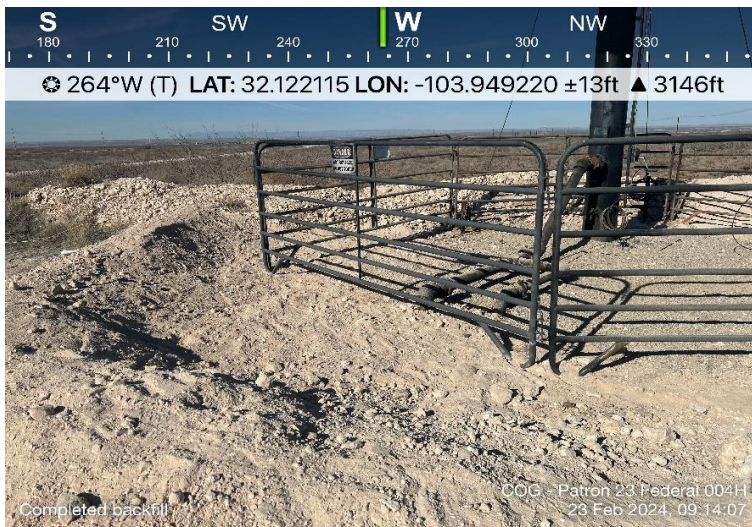
Photograph No. 6

Facility: Patron 23 Federal #004H (12.27.23)

County: Eddy County, New Mexico

Description:

View West, area of CS-3 and CS-4 backfilled.



APPENDIX C

CARMONA RESOURCES



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 297933

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 297933
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PATRON 23 FEDERAL #004H (API #30-015-42451)
Date Release Discovered	12/27/2023
Surface Owner	Federal

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

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

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QUESTIONS, Page 2

Action 297933

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 297933
	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)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (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

Action 297933

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 297933
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 297933

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 297933
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
jacquih	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	12/27/2023

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

QUESTIONS

Action 316049

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 316049
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2336154100
Incident Name	NAPP2336154100 PATRON 23 FEDERAL #004H (API #30-015-42451) @ 0
Incident Type	Fire
Incident Status	Notification Accepted

Location of Release Source	
Site Name	PATRON 23 FEDERAL #004H (API #30-015-42451)
Date Release Discovered	12/27/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	575
What is the estimated number of samples that will be gathered	12
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/22/2024
Time sampling will commence	02:00 PM
Please provide any information necessary for observers to contact samplers	Sampler Information: Conner Moehring (432) 813-6823
Please provide any information necessary for navigation to sampling site	Coordinates of release on initial C-141

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

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

CONDITIONS

Action 316049

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 316049
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jacquih	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/20/2024

APPENDIX D

CARMONA RESOURCES

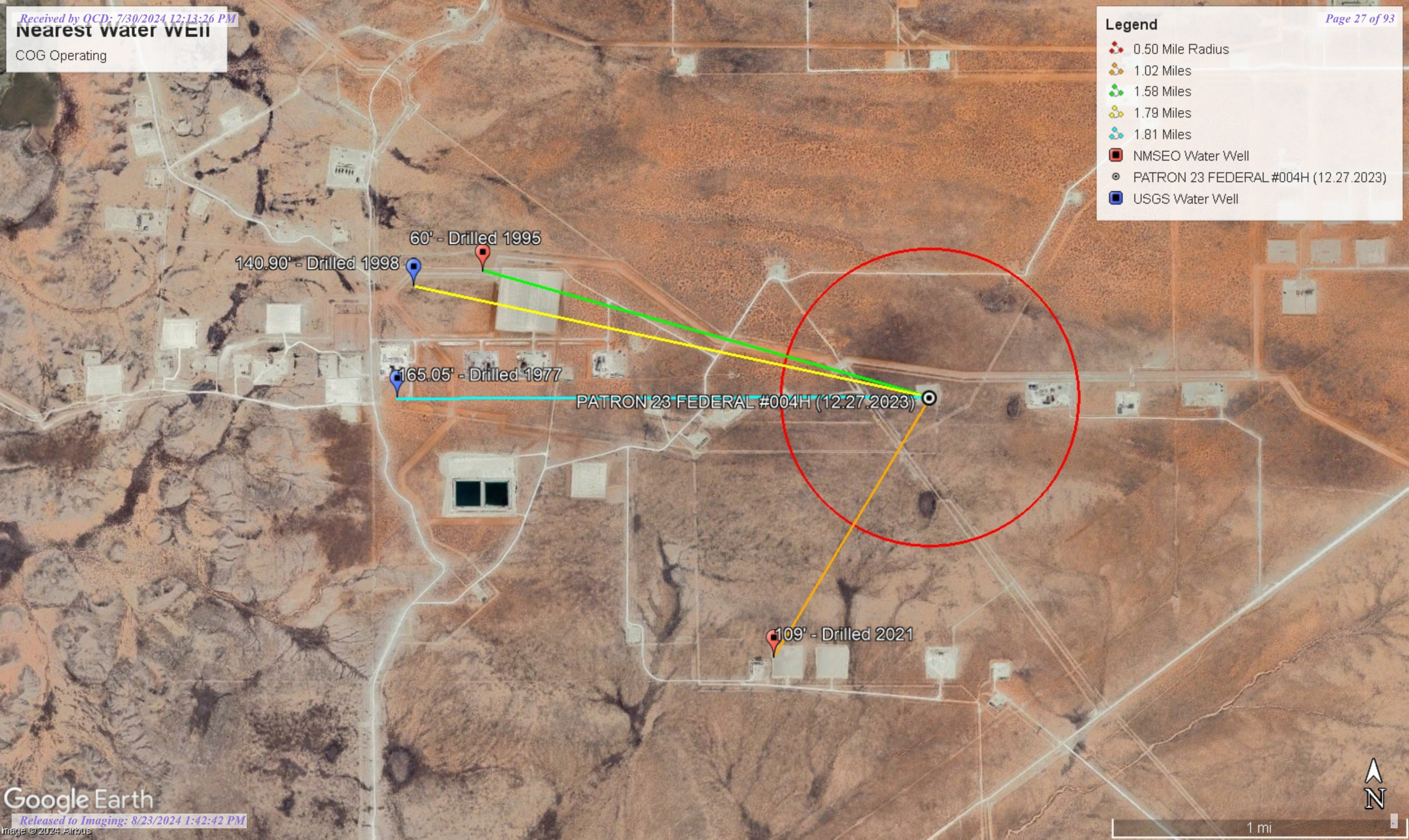


Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 1.02 Miles
- 1.58 Miles
- 1.79 Miles
- 1.81 Miles
- NMSEO Water Well
- PATRON 23 FEDERAL #004H (12.27.2023)
- USGS Water Well



Low Karst

COG Operating

Legend

Low

Medium

PATRON 23 FEDERAL #004H (12.27.2023)

PATRON 23 FEDERAL #004H (12.27.2023)



1 mi



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04558 POD1	CUB	ED		3	4	3	23	25S	29E	598354	3553039	1601			
C 04529 POD1	CUB	ED		1	3	1	18	25S	30E	601077	3555733	2344			
C 02371	C	ED		2	3	15	25S	29E	596741	3555106*	2465	2465	200	60	140
C 02680	CUB	ED		2	3	15	25S	29E	596741	3555106*	2465	2465	200		
C 04705 POD1	CUB	ED		2	1	2	35	25S	29E	598866	3551191	3264			
C 04608 POD1	CUB	ED		1	1	2	12	25S	29E	600080	3557719	3410	55		
C 04525 POD1	CUB	ED		3	1	2	10	25S	29E	596976	3557505	3733			
C 04604 POD1	CUB	ED		1	1	3	01	25S	29E	599401	3558388	3951	102		

Average Depth to Water: **60 feet**

Minimum Depth: **60 feet**

Maximum Depth: **60 feet**

Record Count: 8

UTMNA83 Radius Search (in meters):

Easting (X): 599117

Northing (Y): 3554447

Radius: 4000

*UTM location was derived from PLSS - see Help

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

7/24/23 7:54 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DJT AUG 17 2021 PM 3:21

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4558			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 33.90 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
LONGITUDE 103 57 27.03 W DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SW Sec. 23 T25S R29E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 07/21/2021		DRILLING ENDED 07/21/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 109	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		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)
	FROM	TO						
	0	109	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4558	POD NO. 1	TRN NO. 699798
LOCATION 25S-29E-23 343	WELL TAG ID NO.	PAGE 1 OF 2


1. HYDROGEOLOGIC LOG OF WELL

FOR OSE INTERNAL USE



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	02371		2	3	15	25S	29E	596741	3555106*		
x											
Driller License:		1259		Driller Company:			CAMPBELL DRILLING				
Driller Name:		CAMPBELL, MICHAEL R.									
Drill Start Date:		01/12/1995		Drill Finish Date:			01/24/1995		Plug Date:		
Log File Date:		02/01/1995		PCW Rcv Date:						Source:	
Pump Type:				Pipe Discharge Size:						Estimated Yield:	
Casing Size:		7.00		Depth Well:			200 feet		Depth Water:		60 feet
x											
Water Bearing Stratifications:				Top	Bottom	Description					
				162	200	Sandstone/Gravel/Conglomerate					
x											
Casing Perforations:				Top	Bottom						
				140	200						
x											

*UTM location was derived from PLSS - see Help

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



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Data Category:
Groundwater

Geographic Area:
New Mexico

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- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320739103584201

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

USGS 320739103584201 25S.29E.15.31134

Eddy County, New Mexico
Latitude 32°07'39", Longitude 103°58'42" NAD27
Land-surface elevation 3,017 feet above NAVD88
The depth of the well is 192 feet below land surface.
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
1983-02-01			D 62610		2875.02	NGVD29	1		Z	
1983-02-01			D 62611		2876.60	NAVD88	1		Z	
1983-02-01			D 72019	140.40			1		Z	
1987-10-20			D 62610		2875.09	NGVD29	1		Z	
1987-10-20			D 62611		2876.67	NAVD88	1		Z	
1987-10-20			D 72019	140.33			1		Z	
1992-11-06			D 62610		2874.61	NGVD29	1		S	
1992-11-06			D 62611		2876.19	NAVD88	1		S	
1992-11-06			D 72019	140.81			1		S	
1998-01-29			D 62610		2874.52	NGVD29	1		S	
1998-01-29			D 62611		2876.10	NAVD88	1		S	
1998-01-29			D 72019	140.90			1		S	

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

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



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0.33 0.27 nadww02



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USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320719103584601

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

USGS 320719103584601 25S.29E.16.44444

Eddy County, New Mexico
Latitude 32°07'19", Longitude 103°58'46" NAD27
Land-surface elevation 3,042 feet above NAVD88
The depth of the well is 200 feet below land surface.
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
1958-08-19			D 62610		2870.28	NGVD29	1		Z	
1958-08-19			D 62611		2871.86	NAVD88	1		Z	
1958-08-19			D 72019	170.14			1		Z	
1958-10-23			D 62610		2869.62	NGVD29	1		Z	
1958-10-23			D 62611		2871.20	NAVD88	1		Z	
1958-10-23			D 72019	170.80			1		Z	
1975-12-09			D 62610		2875.47	NGVD29	1		S	
1975-12-09			D 62611		2877.05	NAVD88	1		S	
1975-12-09			D 72019	164.95			1		S	
1976-01-16			D 62610		2873.30	NGVD29	1		S	
1976-01-16			D 62611		2874.88	NAVD88	1		S	
1976-01-16			D 72019	167.12			1		S	
1977-01-14			D 62610		2875.37	NGVD29	1		S	
1977-01-14			D 62611		2876.95	NAVD88	1		S	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1977-01-14			D	72019	165.05		1	S		

Explanation

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

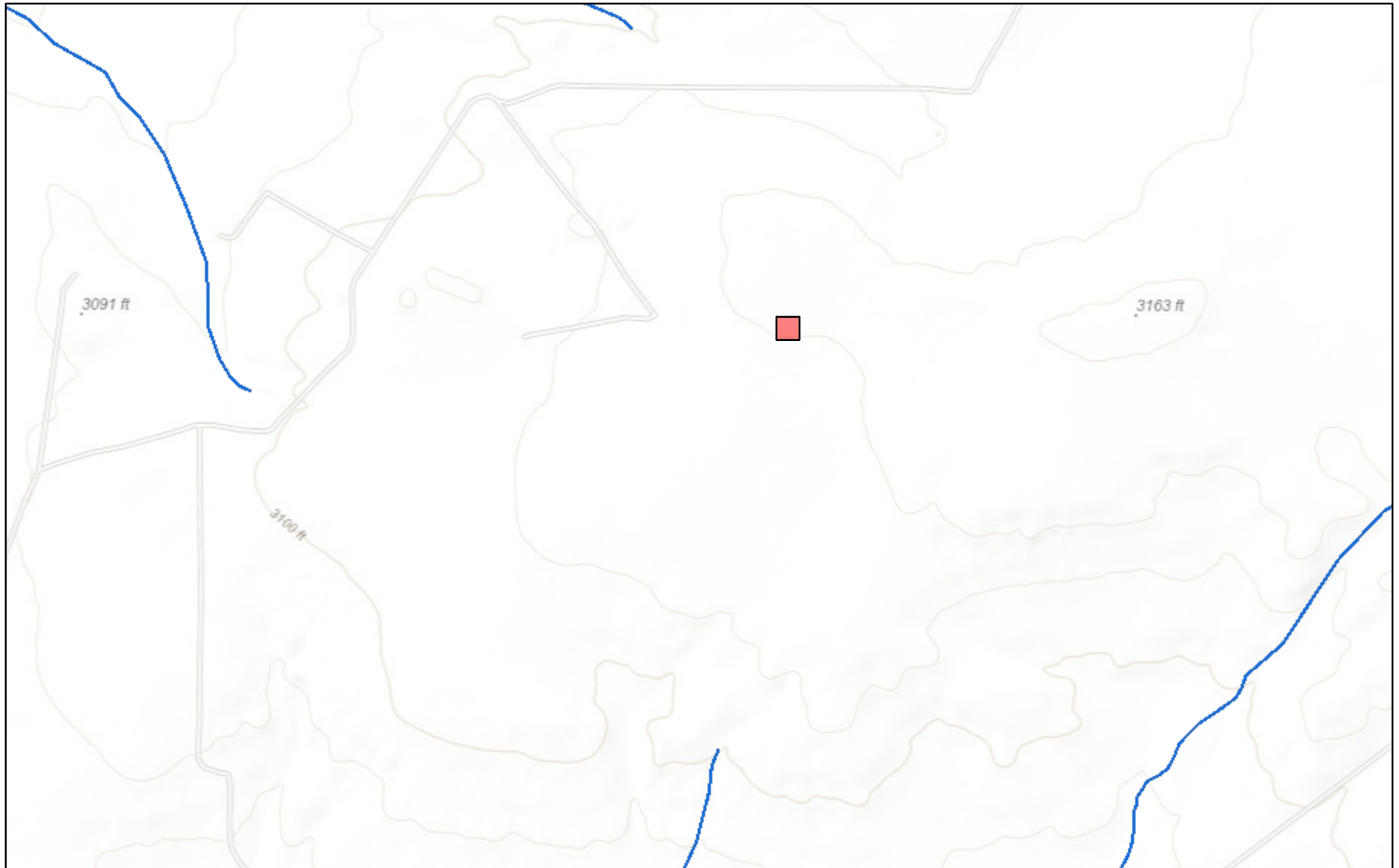
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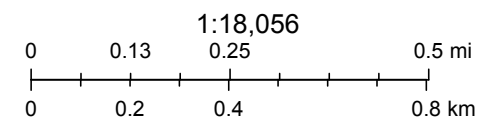


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0.29 0.25 nadww02

New Mexico NFHL Data



July 24, 2023



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

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APPENDIX E

CARMONA RESOURCES





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

February 19, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: PATRON 23 FEDERAL 004H (12.26.23)

Enclosed are the results of analyses for samples received by the laboratory on 02/16/24 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	02/16/2024	Sampling Date:	02/13/2024
Reported:	02/19/2024	Sampling Type:	Soil
Project Name:	PATRON 23 FEDERAL 004H (12.26.23)	Sampling Condition:	Cool & Intact
Project Number:	2259	Sample Received By:	Dionica Hinojos
Project Location:	EDDY COUNTY, NEW MEXICO		

Sample ID: H - 1 (0-0.5') (H240749-01)

BTX 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	02/16/2024	ND	1.92	96.0	2.00	2.67	
Toluene*	<0.050	0.050	02/16/2024	ND	2.07	103	2.00	6.71	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.06	103	2.00	6.60	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.29	105	6.00	7.18	
Total BTX	<0.300	0.300	02/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/16/2024	ND	448	112	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	02/16/2024	ND	210	105	200	0.876	
DRO >C10-C28*	54.0	10.0	02/16/2024	ND	195	97.3	200	3.29	
EXT DRO >C28-C36	17.0	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 02/16/2024
 Reported: 02/19/2024
 Project Name: PATRON 23 FEDERAL 004H (12.26.23)
 Project Number: 2259
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 2 (0-0.5') (H240749-02)

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	02/16/2024	ND	1.92	96.0	2.00	2.67	
Toluene*	<0.050	0.050	02/16/2024	ND	2.07	103	2.00	6.71	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.06	103	2.00	6.60	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.29	105	6.00	7.18	
Total BTEX	<0.300	0.300	02/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/16/2024	ND	448	112	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	02/16/2024	ND	210	105	200	0.876	
DRO >C10-C28*	54.3	10.0	02/16/2024	ND	195	97.3	200	3.29	
EXT DRO >C28-C36	19.7	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 02/16/2024
 Reported: 02/19/2024
 Project Name: PATRON 23 FEDERAL 004H (12.26.23)
 Project Number: 2259
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 3 (0-0.5') (H240749-03)

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	02/16/2024	ND	1.92	96.0	2.00	2.67		
Toluene*	<0.050	0.050	02/16/2024	ND	2.07	103	2.00	6.71		
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.06	103	2.00	6.60		
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.29	105	6.00	7.18		
Total BTEx	<0.300	0.300	02/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/16/2024	ND	448	112	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	02/16/2024	ND	210	105	200	0.876	
DRO >C10-C28*	1140	10.0	02/16/2024	ND	195	97.3	200	3.29	
EXT DRO >C28-C36	547	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received: 02/16/2024
 Reported: 02/19/2024
 Project Name: PATRON 23 FEDERAL 004H (12.26.23)
 Project Number: 2259
 Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 02/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 4 (0-0.5') (H240749-04)

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	02/16/2024	ND	1.92	96.0	2.00	2.67		
Toluene*	<0.050	0.050	02/16/2024	ND	2.07	103	2.00	6.71		
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.06	103	2.00	6.60		
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.29	105	6.00	7.18		
Total BTEx	<0.300	0.300	02/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/16/2024	ND	448	112	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	02/16/2024	ND	210	105	200	0.876	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	195	97.3	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Work Order No: 7240249



Page 1 of 1

Page 7 of 7

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> <input type="checkbox"/> perfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>	

[illegible]

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			01/01/24 5:00

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Conner Moehring
Carmona Resources
310 West W Wall Ste. 415
Midland, TX 79701

Project: Patron 23 Federal 004H (12.26.23)

Project Number: 2259

Location: Eddy County, New Mexico

Lab Order Number: 4B26006



Current Certification

Report Date: 02/27/24

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 (0-3")	4B26006-01	Soil	02/21/24 00:00	02-23-2024 16:49
T-2 (0-3")	4B26006-02	Soil	02/21/24 00:00	02-23-2024 16:49
T-3 (0-3")	4B26006-03	Soil	02/21/24 00:00	02-23-2024 16:49

Due to a heavily contaminated sample, the Compounds Ethylbenezen and M/ P Xylene were present in the Method blank and Continuing calibration Blanks. These were at levels of approximatly 0.003 to 0.004 mg/Kg. There is similar results of these compounds in almost all of the samples. However, The levels were far below the Regulatory Limits for New Mexico.

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

T-1 (0-3")
4B26006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:12	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:12	EPA 8021B	
Ethylbenzene	0.00466	0.00108	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:12	EPA 8021B	
Xylene (p/m)	0.00338	0.00215	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:12	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	110 %		80-120		P4B2303	02/26/24 10:30	02/26/24 17:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.4 %		80-120		P4B2303	02/26/24 10:30	02/26/24 17:12	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	26.9	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 18:57	EPA 8015M	
Diesel Range Organics	ND	26.9	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 18:57	EPA 8015M	
Mineral Oil Range Organics	ND	26.9	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 18:57	EPA 8015M	
Surrogate: 1-Chlorooctane	78.5 %		70-130		P4B2614	02/26/24 11:41	02/26/24 18:57	EPA 8015M	
Surrogate: o-Terphenyl	91.4 %		70-130		P4B2614	02/26/24 11:41	02/26/24 18:57	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	1930	1.08	mg/kg dry	1	P4B2611	02/26/24 14:17	02/26/24 21:53	EPA 300.0	
% Moisture	7.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

T-2 (0-3")
4B26006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:36	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:36	EPA 8021B	
Ethylbenzene	0.00454	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:36	EPA 8021B	
Xylene (p/m)	0.00368	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:36	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 17:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.2 %		80-120		P4B2303	02/26/24 10:30	02/26/24 17:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %		80-120		P4B2303	02/26/24 10:30	02/26/24 17:36	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 19:20	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 19:20	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 19:20	EPA 8015M	
Surrogate: 1-Chlorooctane	82.2 %		70-130		P4B2614	02/26/24 11:41	02/26/24 19:20	EPA 8015M	
Surrogate: o-Terphenyl	93.6 %		70-130		P4B2614	02/26/24 11:41	02/26/24 19:20	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	91.9	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/26/24 22:51	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

T-3 (0-3")
4B26006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:01	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:01	EPA 8021B	
Ethylbenzene	0.00441	0.00103	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:01	EPA 8021B	
Xylene (p/m)	0.00341	0.00206	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:01	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	110 %		80-120		P4B2303	02/26/24 10:30	02/26/24 18:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.7 %		80-120		P4B2303	02/26/24 10:30	02/26/24 18:01	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.8	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 19:43	EPA 8015M	
Diesel Range Organics	ND	25.8	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 19:43	EPA 8015M	
Mineral Oil Range Organics	ND	25.8	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 19:43	EPA 8015M	
Surrogate: 1-Chlorooctane	79.5 %		70-130		P4B2614	02/26/24 11:41	02/26/24 19:43	EPA 8015M	
Surrogate: o-Terphenyl	90.0 %		70-130		P4B2614	02/26/24 11:41	02/26/24 19:43	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	1650	1.03	mg/kg dry	1	P4B2611	02/26/24 14:17	02/26/24 23:11	EPA 300.0	
% Moisture	3.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Patron 23 Federal 004H (12.26.23)
Project Number: 2259
Project Manager: Conner Moehring

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2303 - * DEFAULT PREP *****

Blank (P4B2303-BLK1)

Prepared: 02/23/24 Analyzed: 02/26/24

Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	0.00427	0.00100	"							B
Xylene (p/m)	0.00346	0.00200	"							B
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			

LCS (P4B2303-BS1)

Prepared: 02/23/24 Analyzed: 02/26/24

Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	80-120			

LCS Dup (P4B2303-BSD1)

Prepared: 02/23/24 Analyzed: 02/26/24

Benzene	0.117	0.00100	mg/kg	0.100		117	80-120	0.827	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	0.233	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	0.474	20	
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120	1.49	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	0.0668	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			

Calibration Blank (P4B2303-CCB1)

Prepared: 02/23/24 Analyzed: 02/26/24

Benzene	0.490		ug/kg							
Toluene	0.190		"							
Ethylbenzene	3.88		"							B
Xylene (p/m)	2.97		"							B
Xylene (o)	0.430		"							
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2303 - *** DEFAULT PREP ***

Calibration Blank (P4B2303-CCB2)				Prepared: 02/23/24 Analyzed: 02/26/24						
Benzene	0.540		ug/kg							
Toluene	0.120		"							
Ethylbenzene	3.72		"							B
Xylene (p/m)	3.05		"							B
Xylene (o)	0.350		"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	80-120			

Calibration Blank (P4B2303-CCB3)				Prepared: 02/23/24 Analyzed: 02/27/24						
Benzene	0.410		ug/kg							
Toluene	0.190		"							
Ethylbenzene	2.69		"							B
Xylene (p/m)	2.25		"							B
Xylene (o)	0.360		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		111	80-120			

Calibration Check (P4B2303-CCV1)				Prepared: 02/23/24 Analyzed: 02/26/24						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0980	0.00100	"	0.100		98.0	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.0968	0.00100	"	0.100		96.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P4B2303-CCV2)				Prepared: 02/23/24 Analyzed: 02/26/24						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2303 - *** DEFAULT PREP ***

Calibration Check (P4B2303-CCV3)	Prepared: 02/23/24 Analyzed: 02/27/24									
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			

Matrix Spike (P4B2303-MS1)	Source: 4B23004-01		Prepared: 02/23/24 Analyzed: 02/27/24							
Benzene	0.0875	0.00105	mg/kg dry	0.105	0.000526	82.6	80-120			
Toluene	0.0694	0.00105	"	0.105	0.000684	65.3	80-120			QM-05
Ethylbenzene	0.0666	0.00105	"	0.105	0.00492	58.6	80-120			QM-05
Xylene (p/m)	0.129	0.00211	"	0.211	0.00456	59.1	80-120			QM-05
Xylene (o)	0.0528	0.00105	"	0.105	0.000674	49.5	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.122		"	0.126		96.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.126		103	80-120			

Matrix Spike Dup (P4B2303-MSD1)	Source: 4B23004-01		Prepared: 02/23/24 Analyzed: 02/27/24							
Benzene	0.0945	0.00105	mg/kg dry	0.105	0.000526	89.3	80-120	7.70	20	
Toluene	0.0787	0.00105	"	0.105	0.000684	74.1	80-120	12.6	20	QM-05
Ethylbenzene	0.0748	0.00105	"	0.105	0.00492	66.3	80-120	12.4	20	QM-05
Xylene (p/m)	0.145	0.00211	"	0.211	0.00456	66.8	80-120	12.2	20	QM-05
Xylene (o)	0.0598	0.00105	"	0.105	0.000674	56.1	80-120	12.5	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.122		"	0.126		96.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.126		105	80-120			

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4B2614 - TX 1005										
Blank (P4B2614-BLK1) Prepared & Analyzed: 02/26/24										
Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Mineral Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.0		"	100		79.0	70-130			
Surrogate: o-Terphenyl	44.9		"	50.0		89.8	70-130			
LCS (P4B2614-BS1) Prepared & Analyzed: 02/26/24										
Gasoline Range Organics	854	25.0	mg/kg				75-125			
Diesel Range Organics	848	25.0	"	1000		84.8	75-125			
Surrogate: 1-Chlorooctane	99.4		"	100		99.4	70-130			
Surrogate: o-Terphenyl	41.8		"	50.0		83.7	70-130			
LCS Dup (P4B2614-BSD1) Prepared & Analyzed: 02/26/24										
Gasoline Range Organics	848	25.0	mg/kg				75-125		20	
Diesel Range Organics	845	25.0	"	1000		84.5	75-125	0.373	20	
Surrogate: 1-Chlorooctane	99.0		"	100		99.0	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	70-130			
Calibration Check (P4B2614-CCV1) Prepared & Analyzed: 02/26/24										
Gasoline Range Organics	433	25.0	mg/kg	500		86.6	85-115			
Diesel Range Organics	484	25.0	"	500		96.8	85-115			
Calibration Check (P4B2614-CCV2) Prepared & Analyzed: 02/26/24										
Gasoline Range Organics	444	25.0	mg/kg	500		88.8	85-115			
Diesel Range Organics	500	25.0	"	500		99.9	85-115			
Surrogate: 1-Chlorooctane	88.5		"	100		88.5	85-115			
Surrogate: o-Terphenyl	43.3		"	50.0		86.6	85-115			

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2614 - TX 1005

Matrix Spike (P4B2614-MS1)	Source: 4B26008-05		Prepared: 02/26/24 Analyzed: 02/27/24							
Gasoline Range Organics	858	25.3	mg/kg dry		12.8		75-125			
Diesel Range Organics	855	25.3	"	1010	ND	84.7	75-125			
Surrogate: 1-Chlorooctane	102		"	101		101	70-130			
Surrogate: o-Terphenyl	41.0		"	50.5		81.2	70-130			
Matrix Spike Dup (P4B2614-MSD1)	Source: 4B26008-05		Prepared: 02/26/24 Analyzed: 02/27/24							
Gasoline Range Organics	857	25.3	mg/kg dry		12.8		75-125		20	
Diesel Range Organics	848	25.3	"	1010	ND	84.0	75-125	0.798	20	
Surrogate: 1-Chlorooctane	95.0		"	101		94.0	70-130			
Surrogate: o-Terphenyl	39.8		"	50.5		78.8	70-130			

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4B2611 - *** DEFAULT PREP ***										
Blank (P4B2611-BLK1)				Prepared & Analyzed: 02/26/24						
Chloride	ND	1.00	mg/kg							
LCS (P4B2611-BS1)				Prepared & Analyzed: 02/26/24						
Chloride	18.6		mg/kg	20.0		92.8	90-110			
LCS Dup (P4B2611-BSD1)				Prepared & Analyzed: 02/26/24						
Chloride	19.4		mg/kg	20.0		97.1	90-110	4.58	10	
Calibration Check (P4B2611-CCV1)				Prepared & Analyzed: 02/26/24						
Chloride	18.9		mg/kg	20.0		94.6	90-110			
Calibration Check (P4B2611-CCV2)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	19.8		mg/kg	20.0		98.8	90-110			
Matrix Spike (P4B2611-MS1)		Source: 4B26006-01		Prepared & Analyzed: 02/26/24						
Chloride	142		mg/kg	100	35.9	106	80-120			
Matrix Spike (P4B2611-MS2)		Source: 4B26007-08		Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	103		mg/kg	100	-0.00720	103	80-120			
Matrix Spike Dup (P4B2611-MSD1)		Source: 4B26006-01		Prepared & Analyzed: 02/26/24						
Chloride	143		mg/kg	100	35.9	107	80-120	0.804	20	
Matrix Spike Dup (P4B2611-MSD2)		Source: 4B26007-08		Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	102		mg/kg	100	-0.00720	102	80-120	0.405	20	
Batch P4B2705 - *** DEFAULT PREP ***										
Blank (P4B2705-BLK1)				Prepared & Analyzed: 02/27/24						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4B2705 - *** DEFAULT PREP ***										
Blank (P4B2705-BLK2)				Prepared & Analyzed: 02/27/24						
% Moisture	ND	0.1	%							
Duplicate (P4B2705-DUP1)				Source: 4B26007-07 Prepared & Analyzed: 02/27/24						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P4B2705-DUP2)				Source: 4B26008-05 Prepared & Analyzed: 02/27/24						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P4B2705-DUP3)				Source: 4B26011-01 Prepared & Analyzed: 02/27/24						
% Moisture	6.0	0.1	%		7.0			15.4	20	

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Patron 23 Federal 004H (12.26.23)
Project Number: 2259
Project Manager: Conner Moehring

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

B Analyte is found in the associated blank as well as in the sample (CLP B-flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

2/27/2024

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Patron 23 Federal 004H (12.26.23)
Project Number: 2259
Project Manager: Conner Moehring

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Chain of Custody

Work Order No: 41326006

Page 1 of 1

Page 15 of 15

Project Manager:	Conner Moehring	Bill to: (if different)	Cammona Resources
Company Name:	Cammona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	<u>mcammona@cammonaresources.com</u>

Work Order Comments	
Program: UST/PST <input type="checkbox"/> RRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

[illegible]

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

13 NCF-69

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Ben myers</i>	2/29/24	<i>Shane Brown</i>	2/28/24 16:49

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Conner Moehring
Carmona Resources
310 West W Wall Ste. 415
Midland, TX 79701

Project: Patron 23 Federal 004H (12.26.23)

Project Number: 2259

Location: Eddy County, New Mexico

Lab Order Number: 4B26007



Current Certification

Report Date: 02/27/24

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Patron 23 Federal 004H (12.26.23)
Project Number: 2259
Project Manager: Conner Moehring

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-1 (1')	4B26007-01	Soil	02/22/24 00:00	02-23-2024 16:48
CS-2 (1')	4B26007-02	Soil	02/22/24 00:00	02-23-2024 16:48
CS-3 (1')	4B26007-03	Soil	02/22/24 00:00	02-23-2024 16:48
CS-4 (1')	4B26007-04	Soil	02/22/24 00:00	02-23-2024 16:48
SW-1 (1')	4B26007-05	Soil	02/22/24 00:00	02-23-2024 16:48
SW-2 (1')	4B26007-06	Soil	02/22/24 00:00	02-23-2024 16:48
SW-3 (1')	4B26007-07	Soil	02/22/24 00:00	02-23-2024 16:48
SW-4 (1')	4B26007-08	Soil	02/22/24 00:00	02-23-2024 16:48
SW-5 (1')	4B26007-09	Soil	02/22/24 00:00	02-23-2024 16:48
SW-6 (1')	4B26007-10	Soil	02/22/24 00:00	02-23-2024 16:48
SW-7 (1')	4B26007-11	Soil	02/22/24 00:00	02-23-2024 16:48
SW-8 (1')	4B26007-12	Soil	02/22/24 00:00	02-23-2024 16:48

Due to a heavily contaminated sample, the Compounds Ethylbenzene and M/P Xylene were present in the Method blank and Continuing calibration Blanks. These were at levels of approximately 0.003 to 0.004 mg/Kg. There is similar results of these compounds in almost all of the samples. However, The levels were far below the Regulatory Limits for New Mexico.

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

CS-1 (1')
4B26007-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:25	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:25	EPA 8021B	
Ethylbenzene	0.00454	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:25	EPA 8021B	
Xylene (p/m)	0.00372	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:25	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %		80-120		P4B2303	02/26/24 10:30	02/26/24 18:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	91.1 %		80-120		P4B2303	02/26/24 10:30	02/26/24 18:25	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:07	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:07	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:07	EPA 8015M	
Surrogate: 1-Chlorooctane	82.2 %		70-130		P4B2614	02/26/24 11:41	02/26/24 20:07	EPA 8015M	
Surrogate: o-Terphenyl	90.9 %		70-130		P4B2614	02/26/24 11:41	02/26/24 20:07	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	10.3	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/26/24 23:30	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

CS-2 (1')
4B26007-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:49	EPA 8021B
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:49	EPA 8021B
Ethylbenzene	0.00434	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:49	EPA 8021B
Xylene (p/m)	0.00357	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:49	EPA 8021B
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 18:49	EPA 8021B
Surrogate: 1,4-Difluorobenzene	92.6 %		80-120		P4B2303	02/26/24 10:30	02/26/24 18:49	EPA 8021B
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 18:49	EPA 8021B

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:30	EPA 8015M
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:30	EPA 8015M
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:30	EPA 8015M
Surrogate: 1-Chlorooctane	78.3 %		70-130		P4B2614	02/26/24 11:41	02/26/24 20:30	EPA 8015M
Surrogate: o-Terphenyl	86.6 %		70-130		P4B2614	02/26/24 11:41	02/26/24 20:30	EPA 8015M

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.15	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/26/24 23:49	EPA 300.0
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

CS-3 (1')
4B26007-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:14	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:14	EPA 8021B	
Ethylbenzene	0.00415	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:14	EPA 8021B	
Xylene (p/m)	0.00299	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:14	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	110 %		80-120		P4B2303	02/26/24 10:30	02/26/24 19:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.2 %		80-120		P4B2303	02/26/24 10:30	02/26/24 19:14	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:53	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:53	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 20:53	EPA 8015M	
Surrogate: 1-Chlorooctane	78.8 %		70-130		P4B2614	02/26/24 11:41	02/26/24 20:53	EPA 8015M	
Surrogate: o-Terphenyl	87.3 %		70-130		P4B2614	02/26/24 11:41	02/26/24 20:53	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	8.70	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 00:09	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

CS-4 (1')
4B26007-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:38	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:38	EPA 8021B	
Ethylbenzene	0.00408	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:38	EPA 8021B	
Xylene (p/m)	0.00329	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:38	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 19:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.2 %		80-120		P4B2303	02/26/24 10:30	02/26/24 19:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 19:38	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 21:16	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 21:16	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 21:16	EPA 8015M	
Surrogate: 1-Chlorooctane	82.8 %		70-130		P4B2614	02/26/24 11:41	02/26/24 21:16	EPA 8015M	
Surrogate: o-Terphenyl	92.6 %		70-130		P4B2614	02/26/24 11:41	02/26/24 21:16	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	6.60	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 07:47	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

SW-1 (1')
4B26007-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:02	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:02	EPA 8021B	
Ethylbenzene	0.00384	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:02	EPA 8021B	
Xylene (p/m)	0.00312	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:02	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 20:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.9 %		80-120		P4B2303	02/26/24 10:30	02/26/24 20:02	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 21:39	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 21:39	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 21:39	EPA 8015M	
Surrogate: 1-Chlorooctane	81.9 %		70-130		P4B2614	02/26/24 11:41	02/26/24 21:39	EPA 8015M	
Surrogate: o-Terphenyl	91.6 %		70-130		P4B2614	02/26/24 11:41	02/26/24 21:39	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	14.8	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 08:06	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

SW-2 (1')
4B26007-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:27	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:27	EPA 8021B	
Ethylbenzene	0.00398	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:27	EPA 8021B	
Xylene (p/m)	0.00339	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:27	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 20:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.8 %		80-120		P4B2303	02/26/24 10:30	02/26/24 20:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 20:27	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 22:02	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 22:02	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 22:02	EPA 8015M	
Surrogate: 1-Chlorooctane	81.8 %		70-130		P4B2614	02/26/24 11:41	02/26/24 22:02	EPA 8015M	
Surrogate: o-Terphenyl	91.9 %		70-130		P4B2614	02/26/24 11:41	02/26/24 22:02	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.89	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 08:26	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

SW-3 (1')
4B26007-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 21:40	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 21:40	EPA 8021B	
Ethylbenzene	0.00349	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 21:40	EPA 8021B	
Xylene (p/m)	0.00275	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 21:40	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 21:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.0 %		80-120		P4B2303	02/26/24 10:30	02/26/24 21:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 21:40	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 22:25	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 22:25	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 22:25	EPA 8015M	
Surrogate: 1-Chlorooctane	80.4 %		70-130		P4B2614	02/26/24 11:41	02/26/24 22:25	EPA 8015M	
Surrogate: o-Terphenyl	90.9 %		70-130		P4B2614	02/26/24 11:41	02/26/24 22:25	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	12.0	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 08:45	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

SW-4 (1')
4B26007-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:04	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:04	EPA 8021B	
Ethylbenzene	0.00352	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:04	EPA 8021B	
Xylene (p/m)	0.00273	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:04	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.1 %		80-120		P4B2303	02/26/24 10:30	02/26/24 22:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 22:04	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 23:34	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 23:34	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 23:34	EPA 8015M	
Surrogate: 1-Chlorooctane	80.2 %		70-130		P4B2614	02/26/24 11:41	02/26/24 23:34	EPA 8015M	
Surrogate: o-Terphenyl	90.6 %		70-130		P4B2614	02/26/24 11:41	02/26/24 23:34	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 09:43	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

SW-5 (1')
4B26007-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:28	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:28	EPA 8021B	
Ethylbenzene	0.00330	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:28	EPA 8021B	
Xylene (p/m)	0.00253	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:28	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 22:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.5 %		80-120		P4B2303	02/26/24 10:30	02/26/24 22:28	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 23:57	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 23:57	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/26/24 23:57	EPA 8015M	
Surrogate: 1-Chlorooctane	83.1 %		70-130		P4B2614	02/26/24 11:41	02/26/24 23:57	EPA 8015M	
Surrogate: o-Terphenyl	93.6 %		70-130		P4B2614	02/26/24 11:41	02/26/24 23:57	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	38.9	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 10:41	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

SW-6 (1')
4B26007-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:53	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:53	EPA 8021B	
Ethylbenzene	0.00309	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:53	EPA 8021B	
Xylene (p/m)	0.00254	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:53	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 22:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 22:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.6 %		80-120		P4B2303	02/26/24 10:30	02/26/24 22:53	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 00:20	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 00:20	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 00:20	EPA 8015M	
Surrogate: 1-Chlorooctane	82.7 %		70-130		P4B2614	02/26/24 11:41	02/27/24 00:20	EPA 8015M	
Surrogate: o-Terphenyl	93.1 %		70-130		P4B2614	02/26/24 11:41	02/27/24 00:20	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	12.2	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 11:00	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

SW-7 (1')
4B26007-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:17	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:17	EPA 8021B	
Ethylbenzene	0.00326	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:17	EPA 8021B	
Xylene (p/m)	0.00269	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:17	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 23:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.2 %		80-120		P4B2303	02/26/24 10:30	02/26/24 23:17	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 00:43	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 00:43	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 00:43	EPA 8015M	
Surrogate: 1-Chlorooctane	87.5 %		70-130		P4B2614	02/26/24 11:41	02/27/24 00:43	EPA 8015M	
Surrogate: o-Terphenyl	98.7 %		70-130		P4B2614	02/26/24 11:41	02/27/24 00:43	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	38.7	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 11:19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

SW-8 (1')
4B26007-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:41	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:41	EPA 8021B	
Ethylbenzene	0.00311	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:41	EPA 8021B	
Xylene (p/m)	0.00264	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:41	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/26/24 23:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.6 %		80-120		P4B2303	02/26/24 10:30	02/26/24 23:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	111 %		80-120		P4B2303	02/26/24 10:30	02/26/24 23:41	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:06	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:06	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:06	EPA 8015M	
Surrogate: 1-Chlorooctane	82.6 %		70-130		P4B2614	02/26/24 11:41	02/27/24 01:06	EPA 8015M	
Surrogate: o-Terphenyl	91.4 %		70-130		P4B2614	02/26/24 11:41	02/27/24 01:06	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.9	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 11:38	EPA 300.0	
% Moisture	1.0	0.1	%	1	P4B2705	02/27/24 10:18	02/27/24 10:21	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2303 - *** DEFAULT PREP ***

Blank (P4B2303-BLK1)		Prepared: 02/23/24 Analyzed: 02/26/24								
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	0.00427	0.00100	"							B
Xylene (p/m)	0.00346	0.00200	"							B
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			

LCS (P4B2303-BS1)		Prepared: 02/23/24 Analyzed: 02/26/24								
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		104	80-120			

LCS Dup (P4B2303-BSD1)		Prepared: 02/23/24 Analyzed: 02/26/24								
Benzene	0.117	0.00100	mg/kg	0.100		117	80-120	0.827	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	0.233	20	
Ethylbenzene	0.118	0.00100	"	0.100		118	80-120	0.474	20	
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120	1.49	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	0.0668	20	
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			

Calibration Blank (P4B2303-CCB1)		Prepared: 02/23/24 Analyzed: 02/26/24								
Benzene	0.490		ug/kg							
Toluene	0.190		"							
Ethylbenzene	3.88		"							B
Xylene (p/m)	2.97		"							B
Xylene (o)	0.430		"							
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			

Permian Basin Environmental Lab, L.P.

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Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Patron 23 Federal 004H (12.26.23)
Project Number: 2259
Project Manager: Conner Moehring

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2303 - * DEFAULT PREP *****

Calibration Blank (P4B2303-CCB2)

Prepared: 02/23/24 Analyzed: 02/26/24

Benzene	0.540		ug/kg							
Toluene	0.120		"							
Ethylbenzene	3.72		"							B
Xylene (p/m)	3.05		"							B
Xylene (o)	0.350		"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	80-120			

Calibration Blank (P4B2303-CCB3)

Prepared: 02/23/24 Analyzed: 02/27/24

Benzene	0.410		ug/kg							
Toluene	0.190		"							
Ethylbenzene	2.69		"							B
Xylene (p/m)	2.25		"							B
Xylene (o)	0.360		"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		111	80-120			

Calibration Check (P4B2303-CCV1)

Prepared: 02/23/24 Analyzed: 02/26/24

Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.0980	0.00100	"	0.100		98.0	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.0968	0.00100	"	0.100		96.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			

Calibration Check (P4B2303-CCV2)

Prepared: 02/23/24 Analyzed: 02/26/24

Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.237	0.00200	"	0.200		119	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2303 - *** DEFAULT PREP ***

Calibration Check (P4B2303-CCV3)	Prepared: 02/23/24 Analyzed: 02/27/24									
Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			

Matrix Spike (P4B2303-MS1)	Source: 4B23004-01		Prepared: 02/23/24 Analyzed: 02/27/24							
Benzene	0.0875	0.00105	mg/kg dry	0.105	0.000526	82.6	80-120			
Toluene	0.0694	0.00105	"	0.105	0.000684	65.3	80-120			QM-05
Ethylbenzene	0.0666	0.00105	"	0.105	0.00492	58.6	80-120			QM-05
Xylene (p/m)	0.129	0.00211	"	0.211	0.00456	59.1	80-120			QM-05
Xylene (o)	0.0528	0.00105	"	0.105	0.000674	49.5	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.130		"	0.126		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.126		96.9	80-120			

Matrix Spike Dup (P4B2303-MSD1)	Source: 4B23004-01		Prepared: 02/23/24 Analyzed: 02/27/24							
Benzene	0.0945	0.00105	mg/kg dry	0.105	0.000526	89.3	80-120	7.70	20	
Toluene	0.0787	0.00105	"	0.105	0.000684	74.1	80-120	12.6	20	QM-05
Ethylbenzene	0.0748	0.00105	"	0.105	0.00492	66.3	80-120	12.4	20	QM-05
Xylene (p/m)	0.145	0.00211	"	0.211	0.00456	66.8	80-120	12.2	20	QM-05
Xylene (o)	0.0598	0.00105	"	0.105	0.000674	56.1	80-120	12.5	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.133		"	0.126		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.126		96.9	80-120			

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2614 - TX 1005

Blank (P4B2614-BLK1)		Prepared & Analyzed: 02/26/24								
Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Mineral Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	79.0		"	100		79.0	70-130			
Surrogate: o-Terphenyl	44.9		"	50.0		89.8	70-130			

LCS (P4B2614-BS1)		Prepared & Analyzed: 02/26/24								
Gasoline Range Organics	854	25.0	mg/kg				75-125			
Diesel Range Organics	848	25.0	"	1000		84.8	75-125			
Surrogate: 1-Chlorooctane	99.4		"	100		99.4	70-130			
Surrogate: o-Terphenyl	41.8		"	50.0		83.7	70-130			

LCS Dup (P4B2614-BSD1)		Prepared & Analyzed: 02/26/24								
Gasoline Range Organics	848	25.0	mg/kg				75-125		20	
Diesel Range Organics	845	25.0	"	1000		84.5	75-125	0.373	20	
Surrogate: 1-Chlorooctane	99.0		"	100		99.0	70-130			
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	70-130			

Calibration Check (P4B2614-CCV1)		Prepared & Analyzed: 02/26/24								
Gasoline Range Organics	433	25.0	mg/kg	500		86.6	85-115			
Diesel Range Organics	484	25.0	"	500		96.8	85-115			

Calibration Check (P4B2614-CCV2)		Prepared & Analyzed: 02/26/24								
Gasoline Range Organics	444	25.0	mg/kg	500		88.8	85-115			
Diesel Range Organics	500	25.0	"	500		99.9	85-115			
Surrogate: 1-Chlorooctane	88.5		"	100		88.5	85-115			
Surrogate: o-Terphenyl	43.3		"	50.0		86.6	85-115			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2614 - TX 1005

Matrix Spike (P4B2614-MS1)	Source: 4B26008-05		Prepared: 02/26/24 Analyzed: 02/27/24							
Gasoline Range Organics	858	25.3	mg/kg dry		12.8		75-125			
Diesel Range Organics	855	25.3	"	1010	ND	84.7	75-125			
Surrogate: 1-Chlorooctane	102		"	101		101	70-130			
Surrogate: o-Terphenyl	41.0		"	50.5		81.2	70-130			
Matrix Spike Dup (P4B2614-MSD1)	Source: 4B26008-05		Prepared: 02/26/24 Analyzed: 02/27/24							
Gasoline Range Organics	857	25.3	mg/kg dry		12.8		75-125		20	
Diesel Range Organics	848	25.3	"	1010	ND	84.0	75-125	0.798	20	
Surrogate: 1-Chlorooctane	95.0		"	101		94.0	70-130			
Surrogate: o-Terphenyl	39.8		"	50.5		78.8	70-130			

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4B2611 - *** DEFAULT PREP ***										
Blank (P4B2611-BLK1)				Prepared & Analyzed: 02/26/24						
Chloride	ND	1.00	mg/kg							
LCS (P4B2611-BS1)				Prepared & Analyzed: 02/26/24						
Chloride	18.6		mg/kg	20.0		92.8	90-110			
LCS Dup (P4B2611-BSD1)				Prepared & Analyzed: 02/26/24						
Chloride	19.4		mg/kg	20.0		97.1	90-110	4.58	10	
Calibration Check (P4B2611-CCV1)				Prepared & Analyzed: 02/26/24						
Chloride	18.9		mg/kg	20.0		94.6	90-110			
Calibration Check (P4B2611-CCV2)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	19.8		mg/kg	20.0		98.8	90-110			
Matrix Spike (P4B2611-MS1)		Source: 4B26006-01		Prepared & Analyzed: 02/26/24						
Chloride	142		mg/kg	100	35.9	106	80-120			
Matrix Spike (P4B2611-MS2)		Source: 4B26007-08		Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	103		mg/kg	100	-0.00720	103	80-120			
Matrix Spike Dup (P4B2611-MSD1)		Source: 4B26006-01		Prepared & Analyzed: 02/26/24						
Chloride	143		mg/kg	100	35.9	107	80-120	0.804	20	
Matrix Spike Dup (P4B2611-MSD2)		Source: 4B26007-08		Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	102		mg/kg	100	-0.00720	102	80-120	0.405	20	
Batch P4B2705 - *** DEFAULT PREP ***										
Blank (P4B2705-BLK1)				Prepared & Analyzed: 02/27/24						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Patron 23 Federal 004H (12.26.23)
310 West W Wall Ste. 415	Project Number: 2259
Midland TX, 79701	Project Manager: Conner Moehring

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4B2705 - *** DEFAULT PREP ***

Blank (P4B2705-BLK2)	Prepared & Analyzed: 02/27/24									
% Moisture	ND	0.1	%							
Duplicate (P4B2705-DUP1)	Source: 4B26007-07 Prepared & Analyzed: 02/27/24									
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P4B2705-DUP2)	Source: 4B26008-05 Prepared & Analyzed: 02/27/24									
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P4B2705-DUP3)	Source: 4B26011-01 Prepared & Analyzed: 02/27/24									
% Moisture	6.0	0.1	%		7.0			15.4	20	

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Patron 23 Federal 004H (12.26.23)
Project Number: 2259
Project Manager: Conner Moehring

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

B Analyte is found in the associated blank as well as in the sample (CLP B-flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

2/27/2024

Brent Barron, Laboratory Director/Technical Director

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Patron 23 Federal 004H (12.26.23)
Project Number: 2259
Project Manager: Conner Moehring

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Chain of Custody

Work Order No: 4826007

Page 1 of 2

Page 24 of 25

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Perfund
State of Project:	
Reporting Level: I	<input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Patron 23 Federal 004H (12.26.23)	Turn Around	Pres. Code	ANALYSIS REQUEST										Preservative Codes			
Project Number:	2269	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	24 HR													None: NO	DI Water: H ₂ O
Project Location:	Eddy County, New Mexico	Due Date:														Cool: Cool	MeOH: Me
Sampler's Name:	JM															HCL: HC	HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No	Well Ice:	Yes	No								H ₃ PO ₄ : HP	
Received Intact:	Yes	No		Thermometer ID:												NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:												Na ₂ S ₂ O ₅ : NaSO ₃	
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:												Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:												NaOH+Ascorbic Acid: SANC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters										Sample Comments
CS-1 (1)	2/22/2024		X		C	1	X	X	X	X							1
CS-2 (1)	2/22/2024		X		C	1	X	X	X	X							2
CS-3 (1)	2/22/2024		X		C	1	X	X	X	X							3
CS-4 (1)	2/22/2024		X		C	1	X	X	X	X							4
SW-1 (1)	2/22/2024		X		C	1	X	X	X	X							5
SW-2 (1)	2/22/2024		X		C	1	X	X	X	X							6
SW-3 (1)	2/22/2024		X		C	1	X	X	X	X							7
SW-4 (1)	2/22/2024		X		C	1	X	X	X	X							8
SW-5 (1)	2/22/2024		X		C	1	X	X	X	X							9
SW-6 (1)	2/22/2024		X		C	1	X	X	X	X							10

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

-63 NCE 13

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	2/23/24	<i>Mike Carmona</i>	2/23/24 11:48

Chain of Custody

Work Order No: 4826007

Page 2 of 2

Page 25 of 25

Released to Imaging: 8/23/2024 1:42:42 PM

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS
Action 368441

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	368441
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2336154100
Incident Name	NAPP2336154100 PATRON 23 FEDERAL #004H (API #30-015-42451) @ 0
Incident Type	Fire
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	PATRON 23 FEDERAL #004H (API #30-015-42451)
Date Release Discovered	12/27/2023
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Fire Unknown Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 368441

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	368441
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/30/2024
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QUESTIONS, Page 3

Action 368441

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number: 368441
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	1930
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1687
GRO+DRO	(EPA SW-846 Method 8015M)	1140
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/20/2024
On what date will (or did) the final sampling or liner inspection occur	02/22/2024
On what date will (or was) the remediation complete(d)	02/23/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	750
What is the estimated volume (in cubic yards) that will be remediated	30

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 368441

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 368441
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Patron 23 Fed 4H Battery [fAPP2132638096]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/30/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 368441

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 368441
	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, Page 6

Action 368441

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	368441
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	316049
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/22/2024
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	575

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	750
What was the total volume (cubic yards) remediated	30
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	na

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/30/2024
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QUESTIONS, Page 7

Action 368441

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 368441
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 368441

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 368441
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2336154100 PATRON 23 FEDERAL #004H, thank you. This Remediation Closure Report is approved.	8/23/2024