

Spill Calculation - On-Pad Surface Pool Spill

<i>Received by OCD: 7/1/2024 2:09:25 PM</i>							<i>Page 1 of 141</i>
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	15	12	0.3	180.00	0.67	0.00	0.67
Rectangle B	60	15	0.3	900.00	3.34	0.00	3.34
Rectangle C	60	12	0.5	720.00	5.34	0.00	5.35
Rectangle D				0.00	0.00	0.00	0.00
Rectangle E				0.00	0.00	0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
<i>Released to Imaging: 7/30/2024 3:22:37 PM</i>				0.00	0.00	0.00	0.00
Total Surface Pool Volume Released, Release to Soil/Caliche:							9.3603



SITE INFORMATION

Closure Report

Zia Hills Unit 2731 WC 004H & 007H (11.08.23)

Eddy County, New Mexico

Incident ID: NAPP2333151428

Unit C Sec 27 T26S R31E

32.02004°, -103.76997°

Frac Fluid Release

Point of Release: Stalled Transmission Causing Blender Tubs to Overflow

Release Date: 11.08.2023

Volume Released: 9.36 barrels of Frac Fluid

Volume Recovered: 5.35 barrels of Frac Fluid

CARMONA RESOURCES



Prepared for:

ConocoPhillips

600 West Illinois Avenue,

Midland, Texas 79701

Prepared by:

Carmona Resources, LLC

310 West Wall Street

Suite 500

Midland, Texas 79701

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June 20, 2024

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

**Re: Closure Report
Zia Hills Unit 2731 WC 004H & 007H (11.08.23)
ConocoPhillips
Incident # NAPP2333151428
Site Location: Unit C, Sec 27, T26S, R31E
(Lat 32.02004°, Long -103.76997°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of ConocoPhillips, Carmona Resources, LLC has prepared this letter to document site activities for the Zia Hills Unit 2731 WC 004H & 007H. The site is located at 32.02004°, -103.76997° within Unit C, Sec 27, T26S, and R31E, 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 November 8, 2023, due to a stalled transmission causing the blender tubs to overflow. It resulted in the release of nine-point three six (9.36) barrels of frac fluid, with five-point three five (5.35) barrels recovered. Refer to Figure 3. The Notice of Release form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.10 miles Northwest of the site in S21, T26S, R31E and was drilled in 2023. The well has a reported depth to groundwater of 101' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12, 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.

4.0 Site Assessment Activities

Trenching Assessment

On February 8, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) trenches and four (4) horizontal samples were advanced to



depths ranging from the surface to 4' bgs inside and surrounding the release area to assess the vertical and horizontal extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to 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 D. See Table 1 for the analytical results.

Vertical Delineation

The area of T-1 showed elevated levels of chloride concentrations at 1,840 mg/kg from the surface to 1.0' bgs. The area of T-2 showed elevated chloride concentrations at 1,680 mg/kg from the surface to 1.0' bgs. All trench locations were vertically delineated and below regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Horizontal Delineation

The areas of H-1, H-2, H-3, and H-4 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

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 the NMOCD web portal on February 21, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of fourteen (14) confirmation floor samples (CS-1 through CS-14) and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. 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. The pit sample was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

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

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and ConocoPhillips formally requests the closure of the spill. 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

Conner Moehring
Sr. Project Manager

Devin Dominguez
Geologist/Sr. Project Manager

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

FIGURES

CARMONA RESOURCES

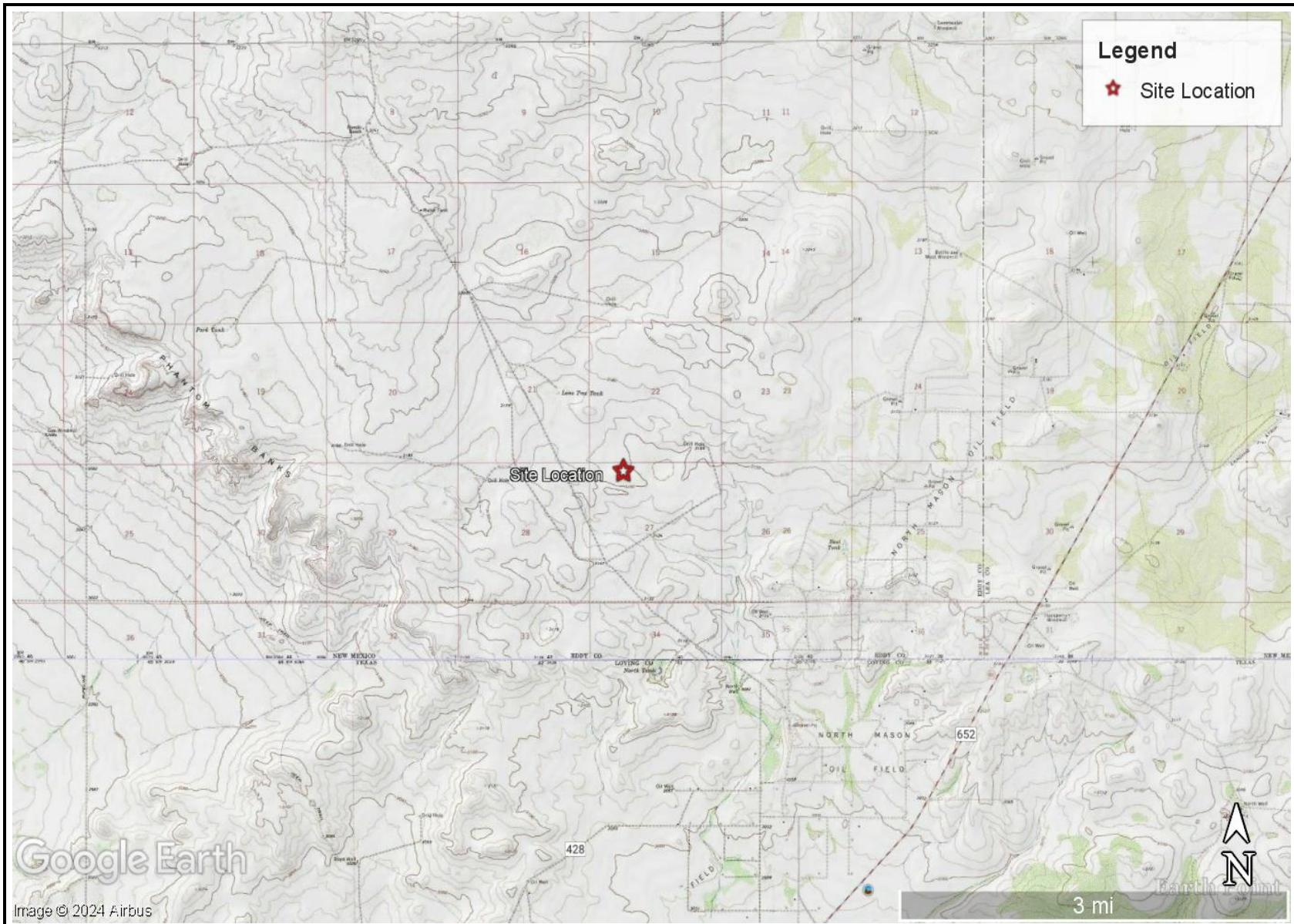




OVERVIEW MAP
CONOCOPHILLIPS
ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.23)
EDDY COUNTY, NEW MEXICO
32.02004°, -103.76997°



FIGURE 1



TOPOGRAPHIC MAP
CONOCOPHILLIPS
ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.23)
EDDY COUNTY, NEW MEXICO
32.02004°, -103.76997°



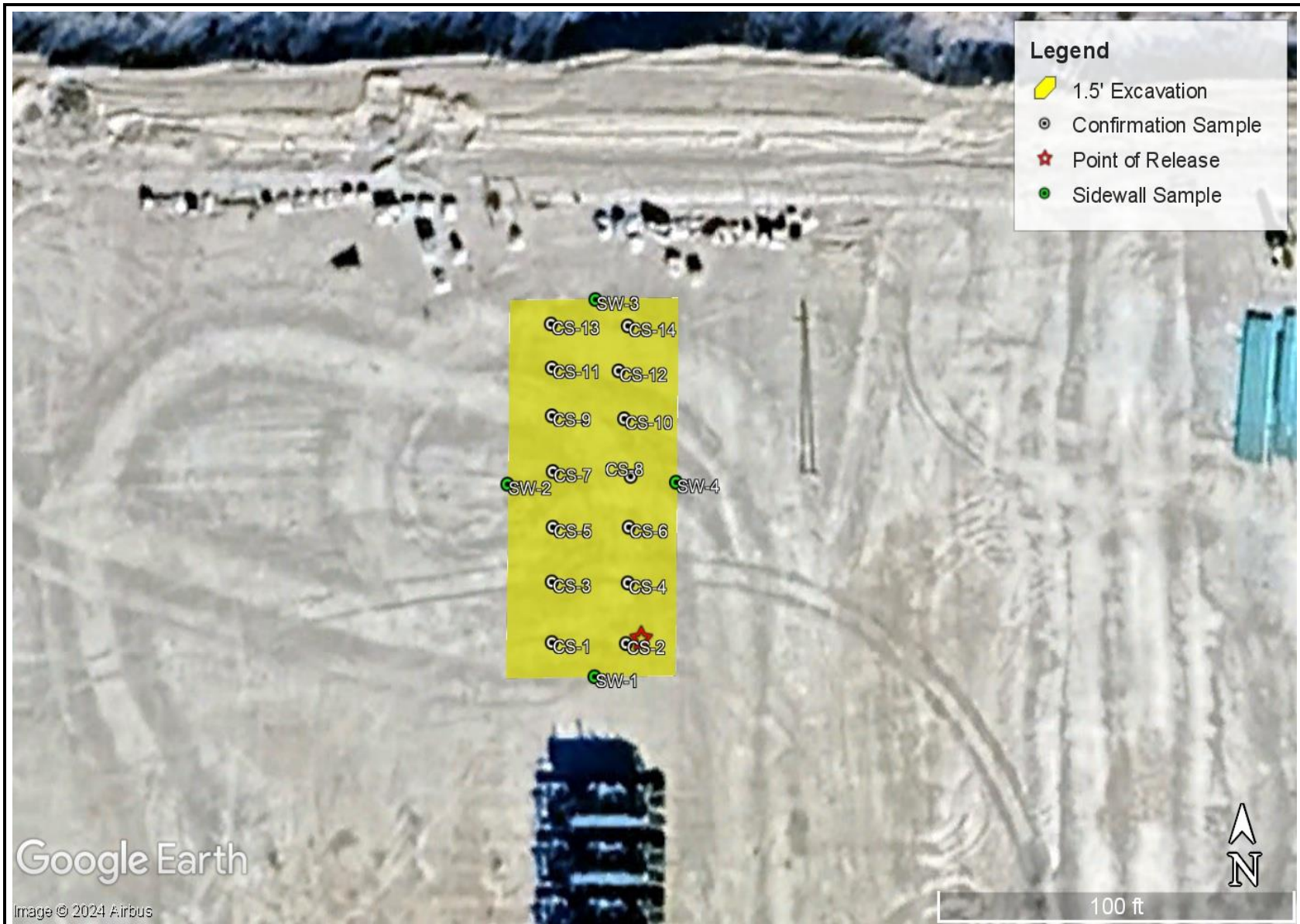
FIGURE 2




SAMPLE LOCATION MAP
CONOCOPHILLIPS
ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.23)
EDDY COUNTY, NEW MEXICO
32.02004°, -103.76997°



FIGURE 3



<p>EXCAVATION DEPTH MAP CONOCOPHILLIPS ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.23) EDDY COUNTY, NEW MEXICO 32.02004°, -103.76997°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 4</p>
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RECLAMATION MAP
CONOCOPHILLIPS
ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.23)
EDDY COUNTY, NEW MEXICO
32.02004°, -103.76997°



FIGURE 5

APPENDIX A

CARMONA RESOURCES



Table 1
ConocoPhillips
Zia Hills Unit 2731 WC 004H & 007H (11.08.23)
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	2/8/2024	0.1	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,840
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
T-2	2/8/2024	0.1	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,680
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-1	2/8/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-2	2/8/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-3	2/8/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-4	2/8/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<i>Regulatory Criteria^A</i>						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) Trench Sample

(H) Horizontal Sample

Removed

Table 2
ConocoPhillips
Zia Hills Unit 2731 WC 004H & 007H (11.08.23)
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	1.5	ND	ND	ND	ND	ND	ND	0.00291	0.00228	ND	ND
CS-2	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00321	0.00255	ND	8.60
CS-3	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00292	0.00222	ND	ND
CS-4	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00299	0.00258	ND	ND
CS-5	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00247	ND	ND	ND
CS-6	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00241	0.00223	ND	ND
CS-7	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00217	0.00275	ND	ND
CS-8	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00236	0.00207	ND	ND
CS-9	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00210	ND	ND	ND
CS-10	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00198	ND	ND	ND
CS-11	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00206	ND	ND	ND
CS-12	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00191	ND	ND	ND
CS-13	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00182	ND	ND	ND
CS-14	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00169	ND	ND	ND
SW-1	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00180	ND	ND	ND
SW-2	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00193	ND	ND	ND
SW-3	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00219	0.00240	ND	29.1
SW-4	2/22/2024	1.5	ND	ND	ND	ND	ND	ND	0.00201	0.00203	ND	40.1
Backfill Material	6/3/2024	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	93.4
<i>Regulatory Criteria^A</i>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
^A – Table 1 - 19.15.29 NMAC
 mg/kg - milligram per kilogram
 TPH- Total Petroleum Hydrocarbons
 ft-feet
 (CS) Confirmation Sample
 (SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

ConocoPhillips

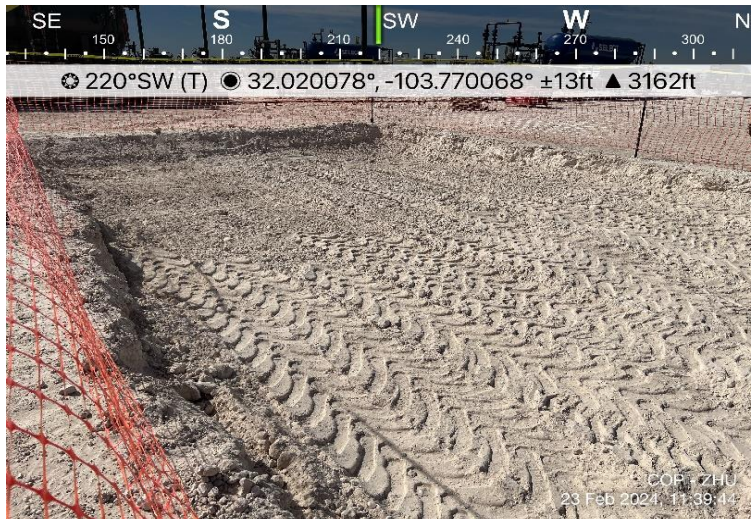
Photograph No. 1

Facility: Zia Hills Unit 2731 WC 004H & 007H (11.08.23)

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-1 through CS-7.



Photograph No. 2

Facility: Zia Hills Unit 2731 WC 004H & 007H (11.08.23)

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-8 through CS-14.



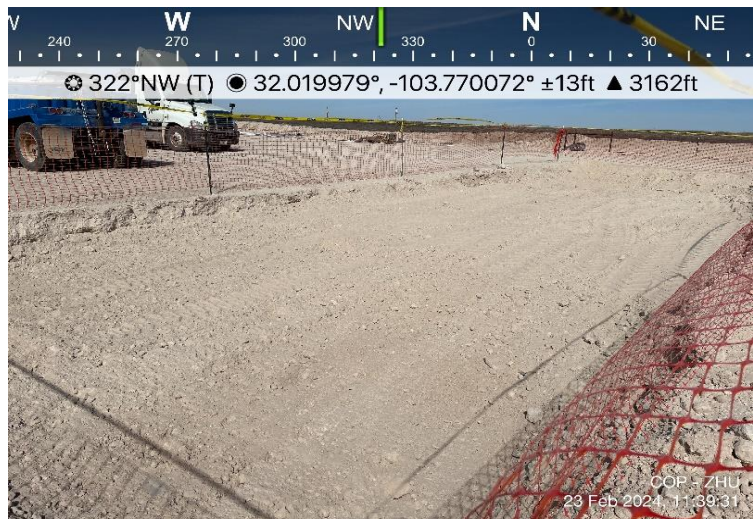
Photograph No. 3

Facility: Zia Hills Unit 2731 WC 004H & 007H (11.08.23)

County: Eddy County, New Mexico

Description:

View Northwest, excavation overview.



PHOTOGRAPHIC LOG

ConocoPhillips

Photograph No. 4

Facility: Zia Hills Unit 2731 WC 004H & 007H (11.08.23)

County: Eddy County, New Mexico

Description:

View Southeast, area of backfilled excavation with clean backfill material.



Photograph No. 5

Facility: Zia Hills Unit 2731 WC 004H & 007H (11.08.23)

County: Eddy County, New Mexico

Description:

View Southwest, area of backfilled excavation with clean backfill material.



Photograph No. 6

Facility: Zia Hills Unit 2731 WC 004H & 007H (11.08.23)

County: Eddy County, New Mexico

Description:

View East, area of backfilled excavation with clean backfill material.



APPENDIX C

CARMONA RESOURCES



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

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

QUESTIONS

Action 288545

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 288545
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Zia Hills Unit 2731 WC 004H & 007H
Date Release Discovered	11/08/2023
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved 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	Cause: Equipment Failure Other (Specify) Other (Specify) Released: 9 BBL Recovered: 5 BBL Lost: 4 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Frac Fluid was released due to a stalled transmission causing the blender tubs to overflow.

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QUESTIONS, Page 2

Action 288545

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 288545
	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 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, to whom	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, when	<i>Not answered.</i>
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	<i>Not answered.</i>
<i>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.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	<i>Not answered.</i>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<i>Not answered.</i>
All free liquids and recoverable materials have been removed and managed appropriately	<i>Not answered.</i>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>
<i>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 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.</i>	

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

ACKNOWLEDGMENTS

Action 288545

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 288545
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases 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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CONDITIONS
 Action 288545

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 288545
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
brittanyesperza	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	11/27/2023

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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 316377

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 316377
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333151428
Incident Name	NAPP2333151428 ZIA HILLS UNIT 2731 WC 004H & 007H @ 0
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2129428702] Zia Hills CF

Location of Release Source	
Site Name	ZIA HILLS UNIT 2731 WC 004H & 007H
Date Release Discovered	11/08/2023
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	4,600
What is the estimated number of samples that will be gathered	24
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	02:30 PM
 <i>Warning: Notification can not be less than two business days prior to conducting final sampling.</i>	
Please provide any information necessary for observers to contact samplers	Number of Samples: ~ 24 Samples to be collected at 200 square feet
Please provide any information necessary for navigation to sampling site	Sampler Information: Conner Moehring (432) 813-6823 Driving Directions – FROM ORLA RD AND BATTLEAXE RD, GO W 1.9MI, N AT THE T 0.1MI, W 1.5MI, S 0.9MI TO LOCATION.

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

District IV
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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

CONDITIONS

Action 316377

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 316377
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
carlij	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.	2/21/2024

APPENDIX D

CARMONA RESOURCES



Nearest water well

CONOCO PHILLIPS COMPANY

Legend

-  0.50 Mile Radius
-  1.10 Miles
-  2.27 Miles
-  2.67 Miles
-  2.90 Miles
-  NMSEO Water Well
-  USGS Water Well
-  ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.2023)

75' - Drilled 2020 - Dry

101' - Drilled 2023

ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.2023)

183.45' - Drilled 1998


195.80' - Drilled 1964



Medium Karst

CONOCO PHILLIPS COMPANY

Legend

-  Medium
-  ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.2023)

ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.2023)





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 04769 POD1	CUB	ED		2	1	2	21	26S	31E	615225	3544832	1780	101		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 616161

Northing (Y): 3543318

Radius: 4000

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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us


1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4769			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5400 Lyndon B Johnson Fwy Suite 1500				CITY Dallas	STATE TX	ZIP 75240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 1.66	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	46	46.92	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec. 21 T26S R31E, NMPM								
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 09/08/2023	DRILLING ENDED 09/08/2023	DEPTH OF COMPLETED WELL (FT) Temporary Well Material	BORE HOLE DEPTH (FT) ±101	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	DATE STATIC MEASURED 9/13/2023		
	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					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	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	101	±6.25	Soil Boring	--	--	--	--
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						
				N/A				

OCD ON SEP 14 2023 10:24

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 01/28/2022)			
FILE NO.	C-4769	POD NO.	1	TRN NO.	750803		
LOCATION	26S.31E. 21 212			WELL TAG ID NO.	NA	PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Sand, fine-grained, poorly graded, unconsolidated, dark brown	Y ✓ N	
	4	20	16	Caliche, consolidated, fine-grained sand, white/ tan	Y ✓ N	
	20	65	45	Sand, fine-grained, poorly graded, unconsolidated, tan	Y ✓ N	
	65	80	15	Gravel, (0.5"), sub rounded, with fine-grained sand, light brown	Y ✓ N	
	80	90	10	Sand, fine-grained, with gravel (0.25") sub-rounded, light brown	Y ✓ N	
	90	101	11	Sand, fine-grained, poorly graded, unconsolidated, dark brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	Shane Eldridge, Cameron Pruitt

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jackie D. Atkins

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. C-4769	POD NO. 1	TRN NO. 750803	
LOCATION 265.31E-21 212	WELL TAG ID NO. NA	PAGE 2 OF 2	

File No. **C-4375**

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT



(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well (Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe): Geotechnical Boring
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 10/17/2019	Requested End Date: 10/17/2019
--	--------------------------------

Plugging Plan of Operations Submitted? Yes No

1. APPLICANT(S)

Name: EOG Resources, Inc.	Name:
Contact or Agent: <input type="checkbox"/> check here if Agent White Drilling Company, Inc.	Contact or Agent: <input type="checkbox"/> check here if Agent
Mailing Address: P.O. Box 906	Mailing Address:
City: Clyde	City:
State: TX <input checked="" type="checkbox"/> Zip Code: 79510	State: Zip Code:
Phone: 432-290-8446 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): office@whitedrilling.com	E-mail (optional):

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

File No.: C-4375	Trn. No.: 661206	Receipt No.: 2-41313
Trans Description (optional): PODI		
Sub-Basin: CUB	PCW/LOG Due Date: 10-31-20	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).

District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

- NM State Plane (NAD83) (Feet)
 UTM (NAD83) (Meters)
 Lat/Long (WGS84) (to the nearest 1/10th of second)
- NM West Zone
 Zone 12N
- NM East Zone
 Zone 13N
- NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-4375 POD1	32 02 54.89	103 47 21.34	NW1/4 NW1/4, 16, 26 South, 31 East

STATE ENGINEER OFFICE
 ROSWELL, NEW MEXICO
 2019 OCT 10 AM 9:47

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)

Additional well descriptions are attached: Yes No **If yes, how many** _____

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: NM State Land Office Lease info attached.

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? Yes No
If yes, how many _____

Approximate depth of well (feet): 75'

Outside diameter of well casing (inches): 2"

Driller Name: Dallas Rader

Driller License Number: WD-1456

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Geotechnical Soil Boring

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4375 Trn No.: 461206

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory: <input type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
<p>Monitoring: <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring.</p>	<p><input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), John White

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

[Signature]
Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

approved partially approved denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 22 day of October 20 19, for the State Engineer,

John R. D'Antonio, Jr., P.E., State Engineer

By: [Signature]
Signature

Print

Title: Tim Williams, Supervisor/Pecos River Watermaster

Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4375

Trn No.: 461206

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.
- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

Trn Desc: C 04375 POD1

File Number: C 04375

Trn Number: 661206

page: 1

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04375 POD1 must be completed and the Well Log filed on or before 10/31/2020.

IT IS THE PERMITTEES RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

SHOULD THE PERMITTEE CHANGE THE PURPOSE OF USE TO OTHER THAN MONITORING PURPOSES, AN APPLICATION SHALL BE ACQUIRED FROM THE OFFICE OF THE STATE ENGINEER.

Trn Desc: C 04375 POD1

File Number: C 04375

Trn Number: 661206

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 10/10/2019	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 22 day of Oct A.D., 2019

John R. D Antonio, Jr., P.E., State Engineer

By: Tim Williams
Tim Williams

Trn Desc: C 04375 POD1

File Number: C 04375

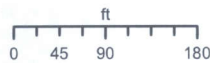
Trn Number: 661206



Esri, HERE, Garmin, (c) OpenStreetMap contributors, U.S. Department of Energy Office of Legacy Management

NEW MEXICO OFFICE OF THE STATE ENGINEER

1:2,257



YMENDIOLA



Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interpret the source data used in their preparation; however, a degree of error is inherent in all maps, and these maps may contain omissions and errors in scale, resolution, nomenclature, positional accuracy, development methodology, interpretation of source data, and other circumstances. These maps are distributed "as is" without warranty of any kind.

Spatial Information

County: Eddy
 Groundwater Basin: Carlsbad
 Abstract Area: Carlsbad
 Carlsbad Underground Basin

Land Grant:
 Not in Land Grant
 Restrictions:

NA
PLSS Description
 SWNENWNW Qtr of Sec 16 of 026S 031E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Coordinates

UTM - NAD 83 (m) - Zone 13

Easting 614305.037
 Northing 3546460.836

State Plane - NAD 83 (f) - Zone E

Easting 709908.374
 Northing 381834.443

Degrees Minutes Seconds

Latitude 32 : 2 : 54.890000
 Longitude -103 : 47 : 21.340000

Location pulled from Coordinate Search

Parcel Information

UPC/DocNum: 4-183-153-268-235
 Parcel Owner: STATE OF NEW MEXICO
 Address:

Legal: Quarter: NE S: 16 T: 26S R: 31E Quarter: NW S: 16 T: 26S R: 31E Quarter: SW S: 16 T: 26S R: 31E Quarter: SE S: 16 T: 26S R: 31E ALL SEC MAP#397-23

POD Information

Owner: EOG RESOURCES/ST LAND
 File Number: C-4375 POD 1
 POD Status: NoData
 Permit Status: NoData
 Permit Use: NoData
 Purpose: BORING

Calculated PLSS

Sample Locations

- ▲ Surface
- ⊕ Surface/Sedi...
- ⊕ Sediment
- ⊗ Precipitation Gauge

- ⊗ Abandoned Precipitation Gauge
- Air Particulate
- Abandoned Air Particulate
- Treatment System

⊗ Abandoned Treatment System

◆ Coord Search Location

- Well
- ⊗ Abandoned Well
- Oil, Gas Well
- ⊗ Abandoned Oil, Gas Well

OSE District Boundary

□ SiteBoundaries

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 661206
File Nbr: C 04375 POD1

Oct. 22, 2019

JOHN WHITE DRILLING CO INC
EOG RESOURCES INC
PO BOX 906
CLYDE, TX 79510

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Tim Williams
Tim Williams
(575) 622-6521

Enclosure

explore



Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

September 30, 2019

EOG Resources, Inc.
5509 Champions Drive
Midland, Texas 79706

Attn: Wesley Moss

Re: Right-of-Entry Permit No.: RE-4685 (Ross Draw Re-Use Pit)

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Anthony Vigil at 505-827-5710.

Sincerely,

Stephanie Garcia Richard
Commissioner of Public Lands

SGR/av

Enclosures

2019 OCT 10 AM 9:49
STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

STATE OF NEW MEXICO
COMMISSIONER OF PUBLIC LANDS
RIGHT OF ENTRY # 4685

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS ("Commissioner") and

Wesley Moss
EOG Resources, Inc.
5509 Champions Drive
Midland, Texas 79706

("Permittee"). Permittee desires to **conduct geotechnical investigations** on the land described below (the "Property") which is under the jurisdiction of the Commissioner.

The parties agree as follows:

1. RIGHT OF ENTRY (ROE).

The Commissioner grants to Permittee, its authorized representatives, contractors and subcontractors, permission to use, including right of ingress and egress, for the sole purpose of conducting geotechnical investigations on the following described lands (the "Property") situated in **Eddy** County, New Mexico:

Subdivision (Qtr/Qtr)	Section	Township	Range	Lat/Long Coordinates
NW ¼ NW ¼	16	26 South	31 East	32 02'54.89 103 47'21.34

2. TERM AND TERMINATION.

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands.

3. COMPENSATION.

On or before the effective date of this Agreement, Permittee shall pay to the Commissioner as consideration for this ROE Permit \$500.00 (Five hundred dollars), plus an application fee of \$50.00 (Fifty dollars).

Payment of all sums due the Commissioner by the Permittee under the terms of this Agreement shall be made at the Office of the Commissioner of Public Lands, 310 Old Santa Fe Trail, Post Office Box 1148, Santa Fe, New Mexico 87504-1148.

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STATE OF NEW MEXICO
COMMISSIONER OF PUBLIC LANDS
SANTA FE, NEW MEXICO

4. CONDITIONS OF USE

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit or any other instrument will be issued for this property being investigated.
- B. No blading or widening of any two-track dirt roads that provides access to the above described property (Property) is permitted under this ROE.
- C. No sale of any material extracted from the Property is allowed under this ROE.
- D. Authorized party shall observe all applicable federal, state and local laws and regulations.
- E. Authorized party shall take all reasonable precautions to prevent and suppress forest, brush and grass fires and prevent pollution of waters on or in the vicinity of the Property.
- F. Authorized party shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and affect.
- H. Authorized party shall be responsible for repair and restitution for damage to any property or improvements as a result of activities related to this ROE.
- I. Prior to execution of project, Permittee must identify and contact all existing surface lessees. The granting of this permit does not allow access across private lands.

5. SURFACE RECLAMATION AND RESTORATION

- A. Drilling, excavation and other surface disturbing activities shall be restricted to areas deemed to have no archaeological significance.
- B. Access to the Property shall be over existing roads. No upgrading of the existing roads shall be done, except as necessary for the ingress and egress of required vehicles.
- C. All topsoil from the areas to be disturbed shall be stockpiled for use in reclamation.
- D. Upon completion of the use and operations permitted by this ROE, all disturbed sites shall be re-contoured to approximate the original contours.
- E. All material removed by excavation shall be replaced into the test holes, with the exception of an adequate sample, on or before the expiration date of this ROE.
- F. The natural environmental conditions that exist contemporaneously with this grant shall be preserved and protected. All applicable environmental and cultural resource protection laws and regulations shall be complied with and such reclamation or corrective actions as may be necessary to conduct geotechnical investigations consistent with safe and sound environmental management principles and practices shall be taken in order to protect the Property from any pollution, erosion or other environmental degradation and to avoid diminishing the value of the Property for any future use.

6. INDEMNITY

Authorized party shall save, hold harmless, indemnify and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of:

- A. The operations or presence on the Property, or on adjacent or proximate state trust lands, including those used to access the Property for the purposes of this Authorization, of Authorized party or authorized party's employees, agents, contractors or invitees;

STATE ENGINEER OFFICE
NOSWELL, NEW MEXICO

B. The activities of third parties on the Property, or on adjacent or proximate state trust lands, including those used to access the Property or other adjacent or proximate state trust lands, whether with or without Authorized party's knowledge or consent;

C. Any Hazardous Materials located in, under, upon or otherwise affecting the Property or adjacent or proximate state trust lands, regardless of their point of origin or date of contamination.

7. STORAGE AND DISPOSAL OF MATERIALS.

Permittee shall not dispose of any trash, debris or waste materials on the Property or allow others to do so and shall remove all trash, debris and waste materials caused by their operations on the Property. This prohibition does not prevent the stockpiling or storage of spoil that results from geotechnical investigations on the Property for use in reclamation of the Property. Except as provided below, Permittee shall not cause or permit any Hazardous Materials to be brought upon or across, or to be used, kept, stored, generated or disposed of in, under or upon, the Property. As used in this Permit, Hazardous Materials includes, but is not limited to, oil, petroleum products, explosives, PCBs, asbestos, formaldehyde, radioactive materials or waste, or other hazardous, toxic, contaminated, or polluting materials, substances or wastes, including without limitation any materials defined as, or listed as, "hazardous substance", "hazardous waste", "hazardous material", "toxic substances" or "regulated substances" under any federal, state, or local laws, ordinances or regulations relating to landfills, industrial hygiene, environmental protection, or the manufacture, use, generation, presence, analysis, transportation, handling, storage, treatment, or disposal of any such material or materials.

This prohibition is not intended to prevent the use or temporary storage of reasonable amounts of oil, petroleum products, explosives, or materials required for the use of such items such as storage drums and filters, necessary for Permittee's ordinary day-to-day operations under the terms of this Agreement, provided such materials are used and stored in compliance with all applicable laws and regulations.

8. LEAKS AND SPILLS.

Due care shall be used to prevent leaks and spills of oil, and petroleum products used in Permittee's operations.

Permittee shall at Permittee's sole expense report and cleanup all leaks and spills on the Property in accordance with state, federal and local law, including but not limited to: discharges of water contaminants pursuant to the New Mexico Water Quality Control Commission regulations (20 NMAC 6.2.1203); hazardous substance incidents pursuant to the New Mexico Environmental Improvement Board Hazardous Waste Management Regulations (20 NMAC 4.1.1 et seq.); and releases of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. § 9603). Permittee shall notify Commissioner within twenty-four (24) hours of any reports made pursuant to this paragraph 7.

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SOSWELL, NEW MEXICO

9. TECHNICAL DATA.

Permittee shall provide to the Commissioner reports of all technical data produced as a result of the geotechnical investigations allowed by this Agreement. Technical data to be reported to the Commissioner may include, but is not limited to: a scaled plat showing the locations, number and depth of all excavated or drilled holes with respect to the boundaries of the Property covered by this Agreement; the amount of land disturbed measured in square feet; a description of top soil depth, overburden depth, and the thickness of the aggregate; copies of any laboratory analyses performed on the aggregate, and estimates of the volume of aggregate. Such reports shall be submitted to the Commissioner within **thirty (30)** days of the expiration of this Agreement.

The Commissioner, in his discretion, may not issue a lease to Permittee for any portion of the Property covered by this Agreement if the Permittee fails to fulfill this obligation.

All reports, notices, or other written correspondence shall be submitted to Right of Way Manager, Commercial Division, State Land Office, and P.O. Box 1148, Santa Fe, NM 87504-1148.

10. SURVIVAL OF TERMS.

Permittee's obligations under paragraphs governing indemnity, storage and disposal of materials, surface reclamation and restoration, compliance with applicable standards and laws, and submittal of reports of technical data, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

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ROSWELL, NEW MEXICO
2019 OCT 10 AM 9:47

WITNESS the hands and seals of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

Wandy Daltor Telephone: _____
PERMITTEE: **EOG Resources Inc.**

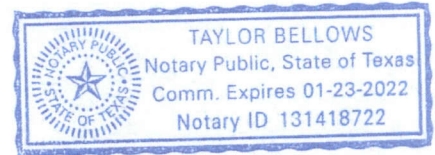
ACKNOWLEDGMENT

STATE OF TEXAS)

COUNTY OF MIDLAND)

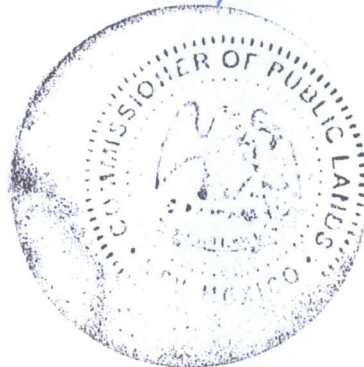
The foregoing instrument was acknowledged before me this 25th day of September, 20 19.

My Commission Expires: 01-23-2022 Taylor Bellows
NOTARY PUBLIC



Debbie Garcia Richard / 1/3
COMMISSIONER OF PUBLIC LANDS

DATE: 10/03/2019

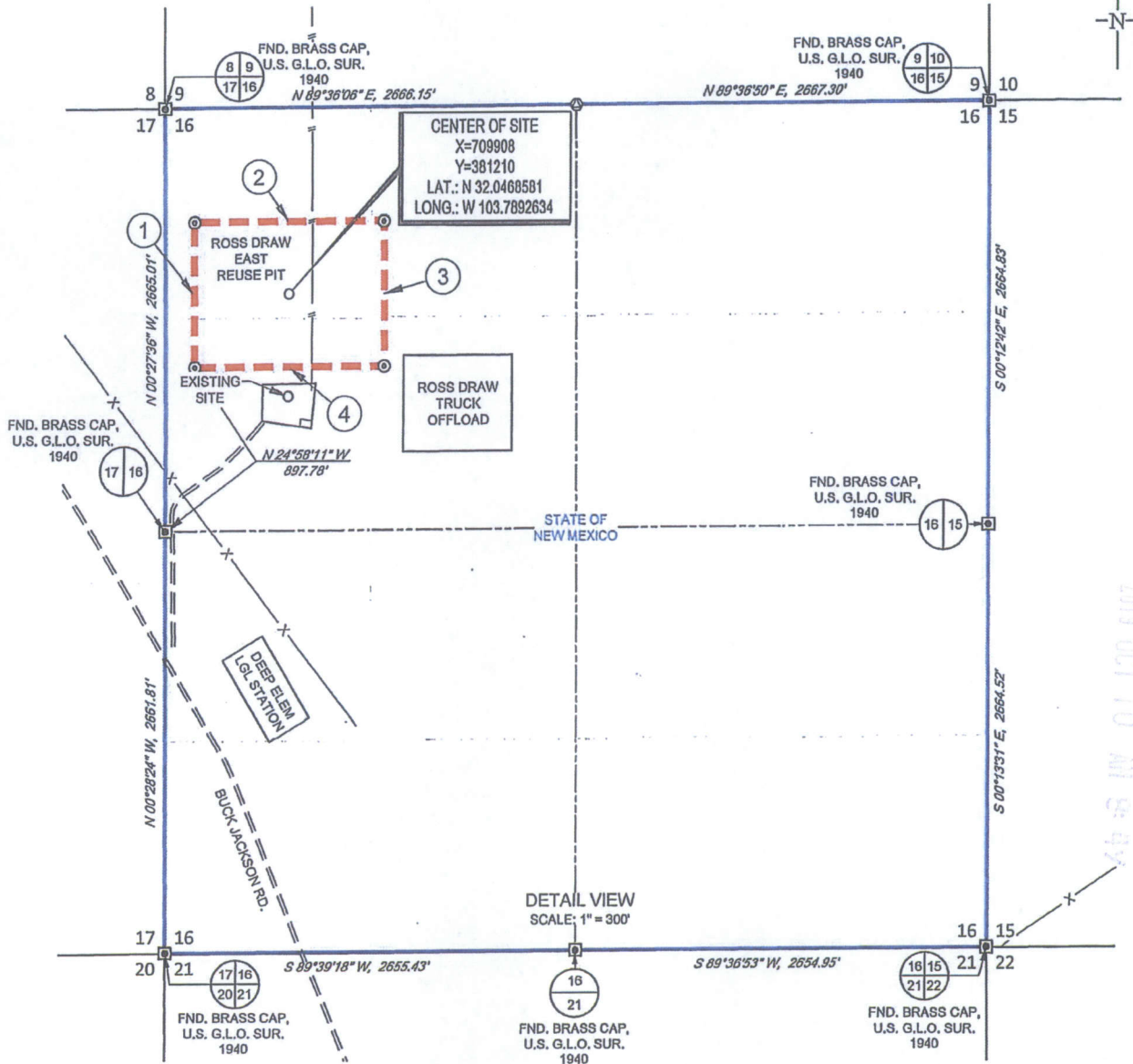


2019 OCT 10 AM 9:47
RE-4685
STATE ENGINEERING
ROSWELL, NEW MEXICO

SCALE: 1" = 1000'
 0' 500' 1000'

SKETCH

SECTION 16, TOWNSHIP 26-S, RANGE 31-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



LINE TABLE

LINE	BEARING	DISTANCE
1	N 00°24'31" W	910.02'
2	N 89°35'39" E	1225.02'
3	S 00°24'32" E	910.02'
4	S 89°35'39" W	1225.02'

LEGEND

- SECTION LINE
- - - QUARTER SECTION LINE
- - - SIXTEENTH SECTION LINE
- - - PROPOSED SITE
- TRACT BORDER
- ROAD WAY
- X- FENCE LINE
- EXISTING PIPELINE
- ⊙ IRON ROD SET
- ⊠ MONUMENT
- ⊙ CALCULATED CORNER



ROSS DRAW EAST RE-USE PIT	REVISION:	
	INT	DATE
DATE: 8/1/19		
FILE: SK_ROSS_DRAW_EAST_REUSE_PIT		
DRAWN BY: C.E.S.		
SHEET: 1 OF 1		

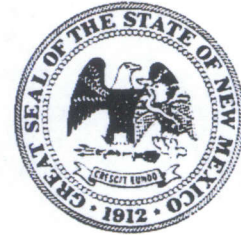
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 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
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 2803 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: C-4375 POD1
Name of well owner: EOG Resources, Inc.
Mailing address: 5509 Champions Drive County: Midland
City: Midland State: Texas Zip code: 79706
Phone number: (432) 556-2792 E-mail: Galan_Kelly@eogresources.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: John W. White
New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2020

IV. WELL INFORMATION: Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 05 min, 54.89 sec
Longitude: 103 deg, 47 min, 21.34 sec, NAD 83

2) Reason(s) for plugging well(s):

If water is encountered during geotechnical drilling

3) Was well used for any type of monitoring program? No If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? _____ If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: _____ feet below land surface / feet above land surface (circle one)

6) Depth of the well: 75 feet

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2019 OCT 10 AM 9:49

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: Sch. 40 PVC if needed to check water level only for 24 hours
- 9) The well was constructed with:
 - an open-hole production interval, state the open interval: _____
 - a well screen or perforated pipe, state the screened interval(s): 70-80
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? _____
- 11) Was the well built with surface casing? _____ If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? _____ If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Pump Mix w/trimie pipe from bottom to top
- 2) Will well head be cut-off below land surface after plugging? _____

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 12.75 gallons
- 4) Type of Cement proposed: Type 2 Portland Cement w/5% quick gel
- 5) Proposed cement grout mix: 6 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
X mixed on site

7) Grout additives requested, and percent by dry weight relative to cement:

[Empty rectangular box for grout additives information]

8) Additional notes and calculations:

[Empty rectangular box for additional notes and calculations]

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

[Large empty rectangular box for additional information]

VIII. SIGNATURE:

I, _____, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

[Handwritten signature in blue ink]

Signature of Applicant

10-9-19

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

- Approved subject to the attached conditions.
- Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 22 day of October, 2019

John R. D'Antonio Jr. P.E., New Mexico State Engineer

By: *Tim Williams*
Tim Williams, Supervisor/Pecos River Watermaster

2019 OCT 10 AM 9:50
STATE ENGINEER OFFICE
ROSSELL, NEW MEXICO

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0
Bottom of proposed interval of grout placement (ft bgl)			75
Theoretical volume of grout required per interval (gallons)			12.75
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			6
Mixed on-site or batch-mixed and delivered?			mixed on site
Grout additive 1 requested			5% quick gel
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

STATE ENGINEER
 OSWELL HAN MENDOZA
 2019 OCT 0 0 AM 05:50

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			



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Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 320016103434201

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

USGS 320016103434201 26S.31E.35.13131

Eddy County, New Mexico
 Latitude 32°00'16", Longitude 103°43'42" NAD27
 Land-surface elevation 3,143 feet above NAVD88
 This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1983-02-14			D 62610		2957.81	NGVD29	1	Z		
1983-02-14			D 62611		2959.40	NAVD88	1	Z		
1983-02-14			D 72019	183.60			1	Z		
1987-10-21			D 62610		2966.50	NGVD29	1	Z		
1987-10-21			D 62611		2968.09	NAVD88	1	Z		
1987-10-21			D 72019	174.91			1	Z		
1992-11-05			D 62610		2958.41	NGVD29	1	S		
1992-11-05			D 62611		2960.00	NAVD88	1	S		
1992-11-05			D 72019	183.00			1	S		
1998-01-29			D 62610		2957.96	NGVD29	1	S		
1998-01-29			D 62611		2959.55	NAVD88	1	S		
1998-01-29			D 72019	183.45			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?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

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Data Category: Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 320001103433501

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

USGS 320001103433501 26S.31E.35.312333

Eddy County, New Mexico
 Latitude 32°00'01", Longitude 103°43'35" NAD27
 Land-surface elevation 3,132 feet above NAVD88
 This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national 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
1964-03-30			D	62610	2934.62	NGVD29	P	Z		
1964-03-30			D	62611	2936.20	NAVD88	P	Z		
1964-03-30			D	72019	195.80		P	Z		

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	P	Pumping
Method of measurement	Z	Other.

Section	Code	Description
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?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

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0.33 0.3 nadww01

National Flood Hazard Layer FIRMette



103°46'31"W 32°1'27"N



1:6,000

103°45'53"W 32°0'57"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

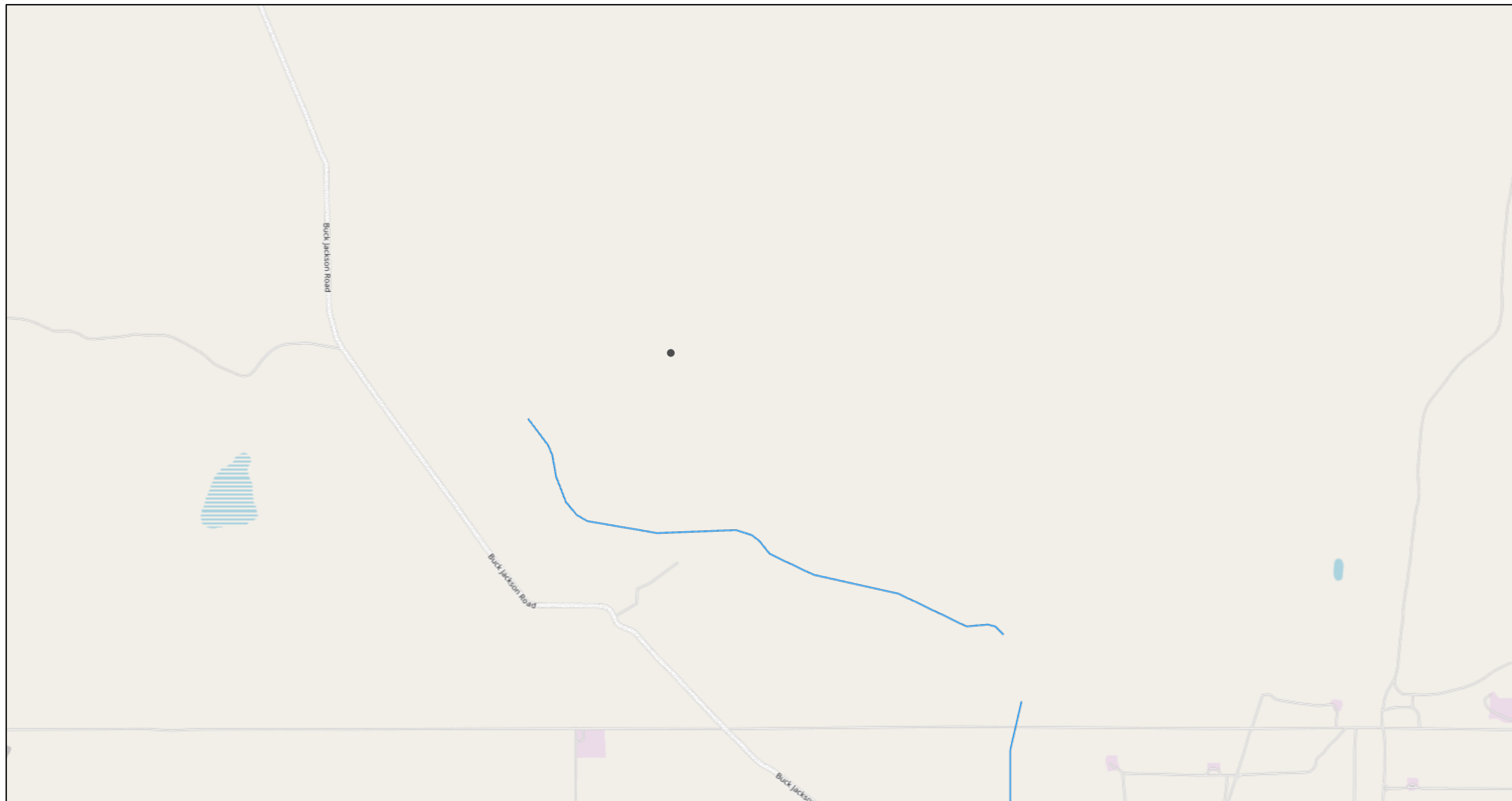
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/1/2024 at 9:40 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

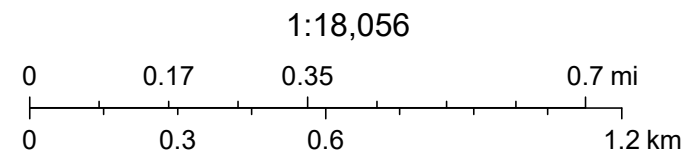
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

ZIA HILLS UNIT 2731 WC 004H & 007H (11.08.2023)



2/1/2024, 8:39:56 AM

— OSE Streams



Map data © OpenStreetMap contributors, CC-BY-SA, NM OSE

APPENDIX E

CARMONA RESOURCES





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

February 13, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: ZIA HILLS UNIT 2731 WC 004H & 007H

Enclosed are the results of analyses for samples received by the laboratory on 02/08/24 12:33.

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".

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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 1 (0-1') (H240612-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2024	ND	2.10	105	2.00	4.70	
Toluene*	<0.050	0.050	02/09/2024	ND	2.11	106	2.00	4.51	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.09	104	2.00	4.76	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.28	105	6.00	5.03	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	1840	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 1 (1.5') (H240612-02)

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	02/09/2024	ND	2.10	105	2.00	4.70	
Toluene*	<0.050	0.050	02/09/2024	ND	2.11	106	2.00	4.51	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.09	104	2.00	4.76	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.28	105	6.00	5.03	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	160	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.0 % 49.1-148

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*=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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 1 (2.0') (H240612-03)

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	02/09/2024	ND	2.10	105	2.00	4.70	
Toluene*	<0.050	0.050	02/09/2024	ND	2.11	106	2.00	4.51	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.09	104	2.00	4.76	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.28	105	6.00	5.03	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 1 (3.0') (H240612-04)

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	02/09/2024	ND	2.10	105	2.00	4.70		
Toluene*	<0.050	0.050	02/09/2024	ND	2.11	106	2.00	4.51		
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.09	104	2.00	4.76		
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.28	105	6.00	5.03		
Total BTEX	<0.300	0.300	02/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	112	16.0	02/09/2024	ND	432	108	400	0.00		

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	02/09/2024	ND	202	101	200	0.971		
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904		
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND						

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 1 (4.0') (H240612-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2024	ND	2.10	105	2.00	4.70	
Toluene*	<0.050	0.050	02/09/2024	ND	2.11	106	2.00	4.51	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.09	104	2.00	4.76	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.28	105	6.00	5.03	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 65.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.3 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 2 (0-1') (H240612-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2024	ND	2.10	105	2.00	4.70	
Toluene*	<0.050	0.050	02/09/2024	ND	2.11	106	2.00	4.51	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.09	104	2.00	4.76	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.28	105	6.00	5.03	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	1680	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 2 (1.5') (H240612-07)

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	02/09/2024	ND	2.10	105	2.00	4.70	
Toluene*	<0.050	0.050	02/09/2024	ND	2.11	106	2.00	4.51	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.09	104	2.00	4.76	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	6.28	105	6.00	5.03	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	320	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 2 (2.0') (H240612-08)

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	02/09/2024	ND	2.08	104	2.00	7.25	
Toluene*	<0.050	0.050	02/09/2024	ND	2.07	103	2.00	7.20	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.04	102	2.00	7.27	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	5.96	99.3	6.00	7.35	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	96.0	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 2 (3.0') (H240612-09)

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	02/09/2024	ND	2.08	104	2.00	7.25	
Toluene*	<0.050	0.050	02/09/2024	ND	2.07	103	2.00	7.20	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.04	102	2.00	7.27	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	5.96	99.3	6.00	7.35	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	32.0	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: T - 2 (4.0') (H240612-10)

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	02/09/2024	ND	2.08	104	2.00	7.25	
Toluene*	<0.050	0.050	02/09/2024	ND	2.07	103	2.00	7.20	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.04	102	2.00	7.27	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	5.96	99.3	6.00	7.35	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	16.0	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H2440612

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

Bill to: (if different)
 Company Name:
 Address:
 City, State ZIP:

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

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500				
T-1 (0-1')	2/8/2024		X		G	1	X	X	X				
T-1 (1.5')	2/8/2024		X		G	1	X	X	X				
T-1 (2.0')	2/8/2024		X		G	1	X	X	X				
T-1 (3.0')	2/8/2024		X		G	1	X	X	X				
T-1 (4.0')	2/8/2024		X		G	1	X	X	X				
T-2 (0-1')	2/8/2024		X		G	1	X	X	X				
T-2 (1.5')	2/8/2024		X		G	1	X	X	X				
T-2 (2.0')	2/8/2024		X		G	1	X	X	X				
T-2 (3.0')	2/8/2024		X		G	1	X	X	X				
T-2 (4.0')	2/8/2024		X		G	1	X	X	X				

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

Relinquished by: (Signature) [Signature] Date/Time 2-8-24 1233

Received by: (Signature) [Signature] Date/Time 1233



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

February 13, 2024

CONNER MOEHRING
CARMONA RESOURCES
310 W WALL ST SUITE 415
MIDLAND, TX 79701

RE: ZIA HILLS UNIT 2731 WC 004H & 007H

Enclosed are the results of analyses for samples received by the laboratory on 02/08/24 12:33.

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".

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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: H - 1 (0-0.5') (H240613-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2024	ND	2.08	104	2.00	7.25	
Toluene*	<0.050	0.050	02/09/2024	ND	2.07	103	2.00	7.20	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.04	102	2.00	7.27	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	5.96	99.3	6.00	7.35	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	16.0	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: H - 2 (0-0.5') (H240613-02)

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	02/09/2024	ND	2.08	104	2.00	7.25	
Toluene*	<0.050	0.050	02/09/2024	ND	2.07	103	2.00	7.20	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.04	102	2.00	7.27	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	5.96	99.3	6.00	7.35	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	<16.0	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: H - 3 (0-0.5') (H240613-03)

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	02/09/2024	ND	2.08	104	2.00	7.25	
Toluene*	<0.050	0.050	02/09/2024	ND	2.07	103	2.00	7.20	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.04	102	2.00	7.27	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	5.96	99.3	6.00	7.35	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	<16.0	16.0	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	02/08/2024	Sampling Date:	02/08/2024
Reported:	02/13/2024	Sampling Type:	Soil
Project Name:	ZIA HILLS UNIT 2731 WC 004H & 007H	Sampling Condition:	Cool & Intact
Project Number:	2262	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

Sample ID: H - 4 (0-0.5') (H240613-04)

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	02/09/2024	ND	2.08	104	2.00	7.25	
Toluene*	<0.050	0.050	02/09/2024	ND	2.07	103	2.00	7.20	
Ethylbenzene*	<0.050	0.050	02/09/2024	ND	2.04	102	2.00	7.27	
Total Xylenes*	<0.150	0.150	02/09/2024	ND	5.96	99.3	6.00	7.35	
Total BTEX	<0.300	0.300	02/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	02/09/2024	ND	432	108	400	0.00	

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	02/09/2024	ND	202	101	200	0.971	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	197	98.5	200	0.904	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H240613

Page 7 of 7

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@carmonarresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Upfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> B-ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> AD&PT <input type="checkbox"/> Other:

Project Name:	Zia Hills Unit 2731 WC 004H & 007H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	2262	Due Date:			
Project Location:	Eddy County, New Mexico				
Sampler's Name:	CRM & IR				
PO #:					

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
H-1 (0-0.5)	2/8/2024		X		G	1	BTEX 8021B		None: NO DI Water: H ₂ O
H-2 (0-0.5)	2/8/2024		X		G	1	TPH 8015M (GRO + DRO + MRO)		Cool: Cool MeOH: Me
H-3 (0-0.5)	2/8/2024		X		G	1	Chloride 4500		HCL: HC HNO ₃ : HN
H-4 (0-0.5)	2/8/2024		X		G	1			H ₂ SO ₄ : H ₂ NaOH: Na

Comments: Email to Mike Carmona / Mccarmona@carmonarresources.com and Conner Moehring / Cmoehring@carmonarresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	2-8-24 1333	<i>Michael ...</i>	

**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: Zia Hills Unit 2731 WC 004H & 007H

Project Number: 2262

Location: Eddy County, New Mexico

Lab Order Number: 4B26008



Current Certification

Report Date: 02/28/24

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

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-1 (1.5')	4B26008-01	Soil	02/22/24 00:00	02-23-2024 16:49
CS-2 (1.5')	4B26008-02	Soil	02/22/24 00:00	02-23-2024 16:49
CS-3 (1.5')	4B26008-03	Soil	02/22/24 00:00	02-23-2024 16:49
CS-4 (1.5')	4B26008-04	Soil	02/22/24 00:00	02-23-2024 16:49
CS-5 (1.5')	4B26008-05	Soil	02/22/24 00:00	02-23-2024 16:49
CS-6 (1.5')	4B26008-06	Soil	02/22/24 00:00	02-23-2024 16:49
CS-7 (1.5')	4B26008-07	Soil	02/22/24 00:00	02-23-2024 16:49
CS-8 (1.5')	4B26008-08	Soil	02/22/24 00:00	02-23-2024 16:49
CS-9 (1.5')	4B26008-09	Soil	02/22/24 00:00	02-23-2024 16:49
CS-10 (1.5')	4B26008-10	Soil	02/22/24 00:00	02-23-2024 16:49
CS-11 (1.5')	4B26008-11	Soil	02/22/24 00:00	02-23-2024 16:49
CS-12 (1.5')	4B26008-12	Soil	02/22/24 00:00	02-23-2024 16:49
CS-13 (1.5')	4B26008-13	Soil	02/22/24 00:00	02-23-2024 16:49
CS-14 (1.5')	4B26008-14	Soil	02/22/24 00:00	02-23-2024 16:49
SW-1 (1.5')	4B26008-15	Soil	02/22/24 00:00	02-23-2024 16:49
SW-2 (1.5')	4B26008-16	Soil	02/22/24 00:00	02-23-2024 16:49
SW-3 (1.5')	4B26008-17	Soil	02/22/24 00:00	02-23-2024 16:49
SW-4 (1.5')	4B26008-18	Soil	02/22/24 00:00	02-23-2024 16:49

Due to a heavily contaminated sample, the Compounds Ethylbenzen 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
 310 West W Wall Ste. 415
 Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 Project Manager: Conner Moehring

CS-1 (1.5')
4B26008-01 (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	02/27/24 00:06	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:06	EPA 8021B	
Ethylbenzene	0.00291	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:06	EPA 8021B	
Xylene (p/m)	0.00228	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:06	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		P4B2303	02/26/24 10:30	02/27/24 00:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	80-120		P4B2303	02/26/24 10:30	02/27/24 00:06	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:28	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:28	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:28	EPA 8015M	
Surrogate: 1-Chlorooctane		81.4 %	70-130		P4B2614	02/26/24 11:41	02/27/24 01:28	EPA 8015M	
Surrogate: o-Terphenyl		92.7 %	70-130		P4B2614	02/26/24 11:41	02/27/24 01:28	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 11:58	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

CS-2 (1.5')
4B26008-02 (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	02/27/24 00:30	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:30	EPA 8021B	
Ethylbenzene	0.00321	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:30	EPA 8021B	
Xylene (p/m)	0.00255	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:30	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:30	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	80-120		P4B2303	02/26/24 10:30	02/27/24 00:30	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.2 %	80-120		P4B2303	02/26/24 10:30	02/27/24 00:30	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:51	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:51	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 01:51	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		79.4 %	70-130		P4B2614	02/26/24 11:41	02/27/24 01:51	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		89.9 %	70-130		P4B2614	02/26/24 11:41	02/27/24 01:51	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.60	1.01	mg/kg dry	1	P4B2611	02/26/24 14:17	02/27/24 12:17	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

CS-3 (1.5')
4B26008-03 (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	02/27/24 00:54	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:54	EPA 8021B	
Ethylbenzene	0.00292	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:54	EPA 8021B	
Xylene (p/m)	0.00222	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:54	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 00:54	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.8 %	80-120		P4B2303	02/26/24 10:30	02/27/24 00:54	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	80-120		P4B2303	02/26/24 10:30	02/27/24 00:54	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 02:14	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 02:14	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 02:14	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		82.8 %	70-130		P4B2614	02/26/24 11:41	02/27/24 02:14	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		94.4 %	70-130		P4B2614	02/26/24 11:41	02/27/24 02:14	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 12:36	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

CS-4 (1.5')
4B26008-04 (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	02/27/24 01:18	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 01:18	EPA 8021B	
Ethylbenzene	0.00299	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 01:18	EPA 8021B	
Xylene (p/m)	0.00258	0.00202	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 01:18	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2303	02/26/24 10:30	02/27/24 01:18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		117 %	80-120		P4B2303	02/26/24 10:30	02/27/24 01:18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.5 %	80-120		P4B2303	02/26/24 10:30	02/27/24 01:18	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 02:37	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 02:37	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 02:37	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		80.3 %	70-130		P4B2614	02/26/24 11:41	02/27/24 02:37	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		91.2 %	70-130		P4B2614	02/26/24 11:41	02/27/24 02:37	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 12:56	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
 310 West W Wall Ste. 415
 Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 Project Manager: Conner Moehring

CS-5 (1.5')
4B26008-05 (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	P4B2610	02/26/24 10:40	02/27/24 04:33	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:33	EPA 8021B	
Ethylbenzene	0.00247	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:33	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:33	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:33	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.8 %	80-120		P4B2610	02/26/24 10:40	02/27/24 04:33	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	80-120		P4B2610	02/26/24 10:40	02/27/24 04:33	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 03:00	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 03:00	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2614	02/26/24 11:41	02/27/24 03:00	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		76.4 %	70-130		P4B2614	02/26/24 11:41	02/27/24 03:00	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		87.8 %	70-130		P4B2614	02/26/24 11:41	02/27/24 03:00	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 13:15	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
 310 West W Wall Ste. 415
 Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 Project Manager: Conner Moehring

CS-6 (1.5')
4B26008-06 (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	0.00102	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:57	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:57	EPA 8021B	
Ethylbenzene	0.00241	0.00102	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:57	EPA 8021B	
Xylene (p/m)	0.00223	0.00204	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:57	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 04:57	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.6 %	80-120		P4B2610	02/26/24 10:40	02/27/24 04:57	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	80-120		P4B2610	02/26/24 10:40	02/27/24 04:57	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.5	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:12	EPA 8015M	
Diesel Range Organics	ND	25.5	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:12	EPA 8015M	
Mineral Oil Range Organics	ND	25.5	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:12	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		82.1 %	70-130		P4B2615	02/26/24 12:03	02/27/24 07:12	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		94.1 %	70-130		P4B2615	02/26/24 12:03	02/27/24 07:12	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.02	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 15:11	EPA 300.0	
% Moisture	2.0	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

CS-7 (1.5')
4B26008-07 (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	P4B2610	02/26/24 10:40	02/27/24 05:21	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 05:21	EPA 8021B	
Ethylbenzene	0.00217	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 05:21	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 05:21	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 05:21	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		94.6 %	80-120		P4B2610	02/26/24 10:40	02/27/24 05:21	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	80-120		P4B2610	02/26/24 10:40	02/27/24 05:21	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:35	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:35	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:35	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		83.3 %	70-130		P4B2615	02/26/24 12:03	02/27/24 07:35	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		93.5 %	70-130		P4B2615	02/26/24 12:03	02/27/24 07:35	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 16:47	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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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 Project Manager: Conner Moehring

CS-8 (1.5')
4B26008-08 (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	P4B2610	02/26/24 10:40	02/27/24 05:46	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 05:46	EPA 8021B	
Ethylbenzene	0.00236	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 05:46	EPA 8021B	
Xylene (p/m)	0.00207	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 05:46	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 05:46	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.2 %	80-120		P4B2610	02/26/24 10:40	02/27/24 05:46	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	80-120		P4B2610	02/26/24 10:40	02/27/24 05:46	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:58	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:58	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 07:58	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		83.3 %	70-130		P4B2615	02/26/24 12:03	02/27/24 07:58	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		92.4 %	70-130		P4B2615	02/26/24 12:03	02/27/24 07:58	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 17:07	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
 310 West W Wall Ste. 415
 Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 Project Manager: Conner Moehring

CS-9 (1.5')
4B26008-09 (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	P4B2610	02/26/24 10:40	02/27/24 06:10	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:10	EPA 8021B	
Ethylbenzene	0.00210	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:10	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:10	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:10	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>114 %</i>	<i>80-120</i>		<i>P4B2610</i>	<i>02/26/24 10:40</i>	<i>02/27/24 06:10</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>94.9 %</i>	<i>80-120</i>		<i>P4B2610</i>	<i>02/26/24 10:40</i>	<i>02/27/24 06:10</i>	<i>EPA 8021B</i>	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 08:21	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 08:21	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 08:21	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>80.0 %</i>	<i>70-130</i>		<i>P4B2615</i>	<i>02/26/24 12:03</i>	<i>02/27/24 08:21</i>	<i>EPA 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>88.9 %</i>	<i>70-130</i>		<i>P4B2615</i>	<i>02/26/24 12:03</i>	<i>02/27/24 08:21</i>	<i>EPA 8015M</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 17:26	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
 310 West W Wall Ste. 415
 Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 Project Manager: Conner Moehring

CS-10 (1.5')
4B26008-10 (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	P4B2610	02/26/24 10:40	02/27/24 06:34	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:34	EPA 8021B	
Ethylbenzene	0.00198	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:34	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:34	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:34	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		94.4 %	80-120		P4B2610	02/26/24 10:40	02/27/24 06:34	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	80-120		P4B2610	02/26/24 10:40	02/27/24 06:34	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 08:45	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 08:45	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 08:45	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		80.5 %	70-130		P4B2615	02/26/24 12:03	02/27/24 08:45	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		90.4 %	70-130		P4B2615	02/26/24 12:03	02/27/24 08:45	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 17:45	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
 310 West W Wall Ste. 415
 Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 Project Manager: Conner Moehring

CS-11 (1.5')
4B26008-11 (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	P4B2610	02/26/24 10:40	02/27/24 06:58	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:58	EPA 8021B	
Ethylbenzene	0.00206	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:58	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:58	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 06:58	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>94.3 %</i>	<i>80-120</i>			<i>P4B2610</i>	<i>02/26/24 10:40</i>	<i>02/27/24 06:58</i>	<i>EPA 8021B</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>113 %</i>	<i>80-120</i>			<i>P4B2610</i>	<i>02/26/24 10:40</i>	<i>02/27/24 06:58</i>	<i>EPA 8021B</i>	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:08	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:08	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:08	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>85.9 %</i>	<i>70-130</i>			<i>P4B2615</i>	<i>02/26/24 12:03</i>	<i>02/27/24 09:08</i>	<i>EPA 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>95.2 %</i>	<i>70-130</i>			<i>P4B2615</i>	<i>02/26/24 12:03</i>	<i>02/27/24 09:08</i>	<i>EPA 8015M</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 18:05	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

CS-12 (1.5')
4B26008-12 (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	P4B2610	02/26/24 10:40	02/27/24 07:23	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 07:23	EPA 8021B	
Ethylbenzene	0.00191	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 07:23	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 07:23	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 07:23	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		94.7 %	80-120		P4B2610	02/26/24 10:40	02/27/24 07:23	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	80-120		P4B2610	02/26/24 10:40	02/27/24 07:23	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:32	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:32	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:32	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		76.8 %	70-130		P4B2615	02/26/24 12:03	02/27/24 09:32	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		87.3 %	70-130		P4B2615	02/26/24 12:03	02/27/24 09:32	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 18:24	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

CS-13 (1.5')
4B26008-13 (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	P4B2610	02/26/24 10:40	02/27/24 07:47	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 07:47	EPA 8021B	
Ethylbenzene	0.00182	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 07:47	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 07:47	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 07:47	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	80-120		P4B2610	02/26/24 10:40	02/27/24 07:47	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.0 %	80-120		P4B2610	02/26/24 10:40	02/27/24 07:47	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:56	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:56	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 09:56	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		76.9 %	70-130		P4B2615	02/26/24 12:03	02/27/24 09:56	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		87.8 %	70-130		P4B2615	02/26/24 12:03	02/27/24 09:56	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 18:43	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.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

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

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

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

CS-14 (1.5')
4B26008-14 (Soil)

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 08:11	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 08:11	EPA 8021B	
Ethylbenzene	0.00169	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 08:11	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 08:11	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 08:11	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	80-120		P4B2610	02/26/24 10:40	02/27/24 08:11	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		95.7 %	80-120		P4B2610	02/26/24 10:40	02/27/24 08:11	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 10:19	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 10:19	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 10:19	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		75.1 %	70-130		P4B2615	02/26/24 12:03	02/27/24 10:19	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		85.4 %	70-130		P4B2615	02/26/24 12:03	02/27/24 10:19	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 19:03	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.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

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

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

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 Project Manager: Conner Moehring

SW-1 (1.5')
4B26008-15 (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	P4B2610	02/26/24 10:40	02/27/24 09:24	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:24	EPA 8021B	
Ethylbenzene	0.00180	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:24	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:24	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:24	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.7 %	80-120		P4B2610	02/26/24 10:40	02/27/24 09:24	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %	80-120		P4B2610	02/26/24 10:40	02/27/24 09:24	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 10:43	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 10:43	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 10:43	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		74.1 %	70-130		P4B2615	02/26/24 12:03	02/27/24 10:43	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		83.5 %	70-130		P4B2615	02/26/24 12:03	02/27/24 10:43	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 19:22	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

SW-2 (1.5')
4B26008-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:49	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:49	EPA 8021B	
Ethylbenzene	0.00193	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:49	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:49	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 09:49	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		P4B2610	02/26/24 10:40	02/27/24 09:49	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	80-120		P4B2610	02/26/24 10:40	02/27/24 09:49	EPA 8021B	
Organics by GC									
Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 11:54	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 11:54	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 11:54	EPA 8015M	
Surrogate: 1-Chlorooctane		77.8 %	70-130		P4B2615	02/26/24 12:03	02/27/24 11:54	EPA 8015M	
Surrogate: o-Terphenyl		86.7 %	70-130		P4B2615	02/26/24 12:03	02/27/24 11:54	EPA 8015M	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 20:20	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

SW-3 (1.5')
4B26008-17 (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	0.00102	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:13	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:13	EPA 8021B	
Ethylbenzene	0.00219	0.00102	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:13	EPA 8021B	
Xylene (p/m)	0.00240	0.00204	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:13	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:13	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		92.9 %	80-120		P4B2610	02/26/24 10:40	02/27/24 10:13	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		123 %	80-120		P4B2610	02/26/24 10:40	02/27/24 10:13	EPA 8021B	S-GC

Organics by GC

Gasoline Range Organics	ND	25.5	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 12:18	EPA 8015M	
Diesel Range Organics	ND	25.5	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 12:18	EPA 8015M	
Mineral Oil Range Organics	ND	25.5	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 12:18	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		77.3 %	70-130		P4B2615	02/26/24 12:03	02/27/24 12:18	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		88.1 %	70-130		P4B2615	02/26/24 12:03	02/27/24 12:18	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	29.1	1.02	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 21:18	EPA 300.0	
% Moisture	2.0	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

SW-4 (1.5')
4B26008-18 (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	P4B2610	02/26/24 10:40	02/27/24 10:38	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:38	EPA 8021B	
Ethylbenzene	0.00201	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:38	EPA 8021B	
Xylene (p/m)	0.00203	0.00202	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:38	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P4B2610	02/26/24 10:40	02/27/24 10:38	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		92.1 %	80-120		P4B2610	02/26/24 10:40	02/27/24 10:38	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		119 %	80-120		P4B2610	02/26/24 10:40	02/27/24 10:38	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 12:41	EPA 8015M	
Diesel Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 12:41	EPA 8015M	
Mineral Oil Range Organics	ND	25.3	mg/kg dry	1	P4B2615	02/26/24 12:03	02/27/24 12:41	EPA 8015M	
<i>Surrogate: 1-Chlorooctane</i>		75.5 %	70-130		P4B2615	02/26/24 12:03	02/27/24 12:41	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		84.6 %	70-130		P4B2615	02/26/24 12:03	02/27/24 12:41	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	40.1	1.01	mg/kg dry	1	P4B2612	02/26/24 14:24	02/27/24 21:37	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
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: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	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
310 West W Wall Ste. 415
Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
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: 4-Bromofluorobenzene	0.132		"	0.120		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	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: 4-Bromofluorobenzene	0.134		"	0.120		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	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: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			

Permian Basin Environmental Lab, L.P.

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

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

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
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: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		105	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			

Batch P4B2610 - * DEFAULT PREP *****

Blank (P4B2610-BLK1)

Prepared: 02/26/24 Analyzed: 02/27/24

Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	0.00236	0.00100	"							B
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
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 P4B2610 - * DEFAULT PREP *****

LCS (P4B2610-BS1)

Prepared: 02/26/24 Analyzed: 02/27/24

Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			

LCS Dup (P4B2610-BSD1)

Prepared: 02/26/24 Analyzed: 02/27/24

Benzene	0.106	0.00100	mg/kg	0.100		106	80-120	11.7	20	
Toluene	0.0923	0.00100	"	0.100		92.3	80-120	15.1	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120	14.7	20	
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120	13.6	20	
Xylene (o)	0.0894	0.00100	"	0.100		89.4	80-120	15.7	20	
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.7	80-120			

Calibration Blank (P4B2610-CCB1)

Prepared: 02/26/24 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: 4-Bromofluorobenzene	0.134		"	0.120		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.1	80-120			

Calibration Blank (P4B2610-CCB2)

Prepared: 02/26/24 Analyzed: 02/27/24

Benzene	0.370		ug/kg							
Toluene	0.0800		"							
Ethylbenzene	1.84		"							B
Xylene (p/m)	1.65		"							
Xylene (o)	0.220		"							
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		93.8	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
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 P4B2610 - * DEFAULT PREP *****

Calibration Check (P4B2610-CCV1)

Prepared: 02/26/24 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: 1,4-Difluorobenzene	0.117		"	0.120		97.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		105	75-125			

Calibration Check (P4B2610-CCV2)

Prepared: 02/26/24 Analyzed: 02/27/24

Benzene	0.120	0.00100	mg/kg	0.100		120	80-120			
Toluene	0.113	0.00100	"	0.100		113	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		119	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			

Calibration Check (P4B2610-CCV3)

Prepared: 02/26/24 Analyzed: 02/27/24

Benzene	0.119	0.00100	mg/kg	0.100		119	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.7	75-125			

Matrix Spike (P4B2610-MS1)

Source: 4B26008-05

Prepared: 02/26/24 Analyzed: 02/27/24

Benzene	0.0911	0.00101	mg/kg dry	0.101	ND	90.2	80-120			
Toluene	0.0702	0.00101	"	0.101	ND	69.5	80-120			QM-05
Ethylbenzene	0.0796	0.00101	"	0.101	0.00247	76.4	80-120			QM-05
Xylene (p/m)	0.156	0.00202	"	0.202	0.00199	76.4	80-120			QM-05
Xylene (o)	0.0712	0.00101	"	0.101	ND	70.5	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.128		"	0.121		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.121		97.5	80-120			

Permian Basin Environmental Lab, L.P.

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

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 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 P4B2610 - * DEFAULT PREP *****

Matrix Spike Dup (P4B2610-MSD1)	Source: 4B26008-05			Prepared: 02/26/24 Analyzed: 02/27/24						
Benzene	0.0316	0.00101	mg/kg dry	0.101	ND	31.3	80-120	97.0	20	QM-05
Toluene	0.0238	0.00101	"	0.101	ND	23.6	80-120	98.6	20	QM-05
Ethylbenzene	0.0308	0.00101	"	0.101	0.00247	28.0	80-120	92.6	20	QM-05
Xylene (p/m)	0.0620	0.00202	"	0.202	0.00199	29.7	80-120	87.9	20	QM-05
Xylene (o)	0.0352	0.00101	"	0.101	ND	34.9	80-120	67.6	20	QM-05
Surrogate: 1,4-Difluorobenzene	0.111		"	0.121		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.150		"	0.121		123	80-120			S-GC

Permian Basin Environmental Lab, L.P.

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

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 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-BS1)

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			

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

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
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			

Batch P4B2615 - TX 1005

Blank (P4B2615-BLK1)

Prepared: 02/26/24 Analyzed: 02/27/24

Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Mineral Oil Range Organics	ND	25.0	"							
Surrogate: 1-Chlorooctane	80.2		"	100		80.2	70-130			
Surrogate: o-Terphenyl	45.7		"	50.0		91.3	70-130			

LCS (P4B2615-BS1)

Prepared: 02/26/24 Analyzed: 02/27/24

Gasoline Range Organics	890	25.0	mg/kg				75-125			
Diesel Range Organics	879	25.0	"	1000		87.9	75-125			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	48.9		"	50.0		97.8	70-130			

LCS Dup (P4B2615-BSD1)

Prepared: 02/26/24 Analyzed: 02/27/24

Gasoline Range Organics	892	25.0	mg/kg				75-125		20	
Diesel Range Organics	883	25.0	"	1000		88.3	75-125	0.429	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
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 P4B2615 - TX 1005

Calibration Check (P4B2615-CCV1)

Prepared: 02/26/24 Analyzed: 02/27/24

Gasoline Range Organics	451	25.0	mg/kg	500		90.3	85-115			
Diesel Range Organics	497	25.0	"	500		99.4	85-115			
Surrogate: 1-Chlorooctane	91.5		"	100		91.5	85-115			
Surrogate: o-Terphenyl	44.2		"	50.0		88.5	85-115			

Calibration Check (P4B2615-CCV2)

Prepared: 02/26/24 Analyzed: 02/27/24

Gasoline Range Organics	437	25.0	mg/kg	500		87.3	85-115			
Diesel Range Organics	490	25.0	"	500		98.0	85-115			
Surrogate: 1-Chlorooctane	88.8		"	100		88.8	85-115			
Surrogate: o-Terphenyl	45.2		"	50.0		90.5	85-115			

Calibration Check (P4B2615-CCV3)

Prepared: 02/26/24 Analyzed: 02/27/24

Gasoline Range Organics	435	25.0	mg/kg	500		87.0	85-115			
Diesel Range Organics	492	25.0	"	500		98.4	85-115			
Surrogate: 1-Chlorooctane	88.4		"	100		88.4	85-115			
Surrogate: o-Terphenyl	44.7		"	50.0		89.5	85-115			

Matrix Spike (P4B2615-MS1)

Source: 4B26008-18

Prepared: 02/26/24 Analyzed: 02/27/24

Gasoline Range Organics	912	25.3	mg/kg dry		12.5		75-125			
Diesel Range Organics	898	25.3	"	1010	ND	88.9	75-125			
Surrogate: 1-Chlorooctane	105		"	101		104	70-130			
Surrogate: o-Terphenyl	46.2		"	50.5		91.6	70-130			

Matrix Spike Dup (P4B2615-MSD1)

Source: 4B26008-18

Prepared: 02/26/24 Analyzed: 02/27/24

Gasoline Range Organics	847	25.3	mg/kg dry		12.5		75-125		20	
Diesel Range Organics	839	25.3	"	1010	ND	83.1	75-125	6.82	20	
Surrogate: 1-Chlorooctane	101		"	101		99.9	70-130			
Surrogate: o-Terphenyl	45.9		"	50.5		90.8	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 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 P4B2611 - * DEFAULT PREP *****

Blank (P4B2611-BLK1) Prepared & Analyzed: 02/26/24

Chloride	ND	1.00	mg/kg							
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LCS (P4B2611-BS1) Prepared & Analyzed: 02/26/24

Chloride	18.6		mg/kg	20.0		92.8	90-110			
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LCS Dup (P4B2611-BSD1) Prepared & Analyzed: 02/26/24

Chloride	19.4		mg/kg	20.0		97.1	90-110	4.58	10	
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Calibration Check (P4B2611-CCV1) Prepared & Analyzed: 02/26/24

Chloride	18.9		mg/kg	20.0		94.6	90-110			
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Calibration Check (P4B2611-CCV2) Prepared: 02/26/24 Analyzed: 02/27/24

Chloride	19.8		mg/kg	20.0		98.8	90-110			
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Matrix Spike (P4B2611-MS1) Source: 4B26006-01 Prepared & Analyzed: 02/26/24

Chloride	142		mg/kg	100	35.9	106	80-120			
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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			
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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	
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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	
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Batch P4B2612 - * DEFAULT PREP *****

Blank (P4B2612-BLK1) Prepared: 02/26/24 Analyzed: 02/27/24

Chloride	ND	1.00	mg/kg							
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Carmona Resources
 310 West W Wall Ste. 415
 Midland TX, 79701

Project: Zia Hills Unit 2731 WC 004H & 007H
 Project Number: 2262
 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 P4B2612 - *** DEFAULT PREP ***										
LCS (P4B2612-BS1)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	20.1		mg/kg	20.0		100	90-110			
LCS Dup (P4B2612-BSD1)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	20.9		mg/kg	20.0		104	90-110	3.85	10	
Calibration Check (P4B2612-CCV1)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	20.6		mg/kg	20.0		103	90-110			
Calibration Check (P4B2612-CCV2)				Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	20.5		mg/kg	20.0		103	90-110			
Matrix Spike (P4B2612-MS1)		Source: 4B26008-06		Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	105		mg/kg	100	-0.0272	105	80-120			
Matrix Spike (P4B2612-MS2)		Source: 4B26008-16		Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	104		mg/kg	100	-0.138	104	80-120			
Matrix Spike Dup (P4B2612-MSD1)		Source: 4B26008-06		Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	104		mg/kg	100	-0.0272	104	80-120	0.289	20	
Matrix Spike Dup (P4B2612-MSD2)		Source: 4B26008-16		Prepared: 02/26/24 Analyzed: 02/27/24						
Chloride	104		mg/kg	100	-0.138	104	80-120	0.392	20	
Batch P4B2705 - *** DEFAULT PREP ***										
Blank (P4B2705-BLK1)				Prepared & Analyzed: 02/27/24						
% Moisture	ND		0.1	%						

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 Midland TX, 79701

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 Project Number: 2262
 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	

Permian Basin Environmental Lab, L.P.

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Carmona Resources
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Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
Project Manager: Conner Moehring

Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- 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: 2/28/2024

Brent Barron, Laboratory Director/Technical Director

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

Project: Zia Hills Unit 2731 WC 004H & 007H
Project Number: 2262
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: 4826008

Page 1 of 2

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

Program:	UST/RST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RRC	<input type="checkbox"/> Iperfund
State of Project:					
Reporting Level:	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:	Zia Hills Unit 2731 WC 004H & 007H	Turn Around	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	24 Hours	Pres. Code		
Project Number:	2262	Due Date:						
Project Location:	Eddy County, New Mexico	MMI						
Sampler's Name:								
PO #:								
SAMPLE RECEIPT	Temp Blank:	Yes	No	Thermometer ID:		Wet Ice:	Yes	No
Received Intact:	Yes	No	Correction Factor:					
Cooler Custody Seals:	Yes	No	Temperature Reading:					
Sample Custody Seals:	Yes	No	Corrected Temperature:					
Total Containers:								

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont.	Parameters			ANALYSIS REQUEST	Preservative Codes	Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0			
CS-1 (1.5)	2/22/2024		X		C	1	X	X	X		1	
CS-2 (1.5)	2/22/2024		X		C	1	X	X	X		2	
CS-3 (1.5)	2/22/2024		X		C	1	X	X	X		3	
CS-4 (1.5)	2/22/2024		X		C	1	X	X	X		4	
CS-5 (1.5)	2/22/2024		X		C	1	X	X	X		5	
CS-6 (1.5)	2/22/2024		X		C	1	X	X	X		6	
CS-7 (1.5)	2/22/2024		X		C	1	X	X	X		7	
CS-8 (1.5)	2/22/2024		X		C	1	X	X	X		8	
CS-9 (1.5)	2/22/2024		X		C	1	X	X	X		9	
CS-10 (1.5)	2/22/2024		X		C	1	X	X	X		10	

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

-6.9 NCF B

Relinquished by: (Signature)	<i>Conner Moehring</i>	Date/Time	2/23/24	Received by: (Signature)	<i>Mike Carmona</i>	Date/Time	2/23/24 16:49
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Chain of Custody

Work Order No: 41826008

Page 2 of 2

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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

Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Deepfund <input type="checkbox"/>
State of Project:	
Reporting Level:	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"/>

Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Temp Blank:	Yes	No	Thermometer ID:	Yes	No	Well Ice:	Yes	No	Parameters			Pres. Code	ANALYSIS REQUEST	Preservative Codes	
														Received Intact:	Yes	No				Correction Factor:
Zia Hills Unit 2731 WC 004H & 007H	2262	Eddy County, New Mexico	MM																	
<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/> 24 Hours																				
Turn Around: <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																				
Due Date: <input type="checkbox"/> 24 Hours																				
Sample Custody Seals: Yes No N/A																				
Temperature Reading: <input type="checkbox"/> Corrected Temperature: <input type="checkbox"/>																				
Total Containers: <input type="checkbox"/>																				
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont.														
CS-11 (1.5)	2/22/2024		X		C	1	X	X	X	X										
CS-12 (1.5)	2/22/2024		X		C	1	X	X	X	X										
CS-13 (1.5)	2/22/2024		X		C	1	X	X	X	X										
CS-14 (1.5)	2/22/2024		X		C	1	X	X	X	X										
SW-1 (1.5)	2/22/2024		X		C	1	X	X	X	X										
SW-2 (1.5)	2/22/2024		X		C	1	X	X	X	X										
SW-3 (1.5)	2/22/2024		X		C	1	X	X	X	X										
SW-4 (1.5)	2/22/2024		X		C	1	X	X	X	X										

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	2/25/24	<i>Mike Carmona</i>	2/23/24 16:49

-69 KLF
15



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/7/2024 3:38:45 PM

JOB DESCRIPTION

Zia Hills Unit 2731 WC 004H & 007H
 Eddy County, New Mexico

JOB NUMBER

880-44252-1

Eurofins Midland
 1211 W. Florida Ave
 Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



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6/7/2024 3:38:45 PM

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

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Client: Carmona Resources
Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Laboratory Job ID: 880-44252-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1

Job ID: 880-44252-1

Eurofins Midland

Job Narrative 880-44252-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The sample was received on 6/4/2024 12:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: Backfill Material (880-44252-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-82244 and analytical batch 880-82547 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: Backfill Material (880-44252-1) and (LCS 880-82244/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The method blank for preparation batch 880-82244 and analytical batch 880-82547 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

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Client Sample Results

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

Client Sample ID: Backfill Material

Lab Sample ID: 880-44252-1

Date Collected: 06/03/24 00:00

Matrix: Solid

Date Received: 06/04/24 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/04/24 12:40	06/04/24 15:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/04/24 12:40	06/04/24 15:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/04/24 12:40	06/04/24 15:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/04/24 12:40	06/04/24 15:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/04/24 12:40	06/04/24 15:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/04/24 12:40	06/04/24 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/04/24 12:40	06/04/24 15:34	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/04/24 12:40	06/04/24 15:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/04/24 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/24 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 15:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 15:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/03/24 19:14	06/06/24 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	06/03/24 19:14	06/06/24 15:02	1
o-Terphenyl	67	S1-	70 - 130	06/03/24 19:14	06/06/24 15:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.4		4.96		mg/Kg			06/06/24 14:13	1

Surrogate Summary

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-44241-A-1-A MS	Matrix Spike	104	101
880-44241-A-1-B MSD	Matrix Spike Duplicate	105	102
880-44252-1	Backfill Material	105	95
LCS 880-82265/1-A	Lab Control Sample	104	101
LCSD 880-82265/2-A	Lab Control Sample Dup	103	101
MB 880-82265/5-A	Method Blank	104	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-44252-1	Backfill Material	75	67 S1-
890-6733-A-1-C MS	Matrix Spike	86	85
890-6733-A-1-D MSD	Matrix Spike Duplicate	88	86
LCS 880-82244/2-A	Lab Control Sample	126	133 S1+
LCSD 880-82244/3-A	Lab Control Sample Dup	107	113
MB 880-82244/1-A	Method Blank	109	112
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-82265/5-A
 Matrix: Solid
 Analysis Batch: 82256

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 82265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/04/24 12:07	06/04/24 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/04/24 12:07	06/04/24 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/04/24 12:07	06/04/24 14:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/04/24 12:07	06/04/24 14:10	1

Lab Sample ID: LCS 880-82265/1-A
 Matrix: Solid
 Analysis Batch: 82256

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 82265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.09133		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09576		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09784		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-82265/2-A
 Matrix: Solid
 Analysis Batch: 82256

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 82265

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1146		mg/Kg		115	70 - 130	13	35
Toluene	0.100	0.1034		mg/Kg		103	70 - 130	12	35
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2218		mg/Kg		111	70 - 130	12	35
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-44241-A-1-A MS
 Matrix: Solid
 Analysis Batch: 82256

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 82265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1003		mg/Kg		101	70 - 130
Toluene	<0.00199	U	0.0996	0.09035		mg/Kg		91	70 - 130

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QC Sample Results

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-44241-A-1-A MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 82256

Prep Batch: 82265

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00199	U	0.0996	0.09423		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1936		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09708		mg/Kg		97	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-44241-A-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 82256

Prep Batch: 82265

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00199	U	0.101	0.1000		mg/Kg		99	70 - 130	0	35
Toluene	<0.00199	U	0.101	0.08801		mg/Kg		87	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.08931		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1818		mg/Kg		90	70 - 130	6	35
o-Xylene	<0.00199	U	0.101	0.09097		mg/Kg		90	70 - 130	6	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-82244/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 82547

Prep Batch: 82244

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/24 19:14	06/06/24 10:28	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	109		70 - 130	06/03/24 19:14	06/06/24 10:28	1
o-Terphenyl	112		70 - 130	06/03/24 19:14	06/06/24 10:28	1

Lab Sample ID: LCS 880-82244/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 82547

Prep Batch: 82244

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Gasoline Range Organics (GRO)-C6-C10	1000	1270		mg/Kg		127	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1232		mg/Kg		123	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-82244/2-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 82244

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	126		70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: LCSD 880-82244/3-A
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 82244

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1068		mg/Kg		107	70 - 130	17	20	
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130	19	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	107		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-6733-A-1-C MS
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 82244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	703.8		mg/Kg		71	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	695.4	F1	mg/Kg		67	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	86		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-6733-A-1-D MSD
Matrix: Solid
Analysis Batch: 82547

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 82244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	753.8		mg/Kg		76	70 - 130	7
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	729.0		mg/Kg		71	70 - 130	5

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	88		70 - 130
o-Terphenyl	86		70 - 130

QC Sample Results

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-82330/1-A
 Matrix: Solid
 Analysis Batch: 82407

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/06/24 13:57	1

Lab Sample ID: LCS 880-82330/2-A
 Matrix: Solid
 Analysis Batch: 82407

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-82330/3-A
 Matrix: Solid
 Analysis Batch: 82407

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	258.7		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-44252-1 MS
 Matrix: Solid
 Analysis Batch: 82407

Client Sample ID: Backfill Material
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	93.4		248	353.3		mg/Kg		105	90 - 110

Lab Sample ID: 880-44252-1 MSD
 Matrix: Solid
 Analysis Batch: 82407

Client Sample ID: Backfill Material
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	93.4		248	354.3		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 82256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1	Backfill Material	Total/NA	Solid	8021B	82265
MB 880-82265/5-A	Method Blank	Total/NA	Solid	8021B	82265
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	8021B	82265
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	82265
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	82265
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	82265

Prep Batch: 82265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1	Backfill Material	Total/NA	Solid	5035	
MB 880-82265/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-82265/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-82265/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44241-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-44241-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 82385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1	Backfill Material	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 82244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1	Backfill Material	Total/NA	Solid	8015NM Prep	
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 82547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1	Backfill Material	Total/NA	Solid	8015B NM	82244
MB 880-82244/1-A	Method Blank	Total/NA	Solid	8015B NM	82244
LCS 880-82244/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	82244
LCSD 880-82244/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	82244
890-6733-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	82244
890-6733-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	82244

Analysis Batch: 82675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1	Backfill Material	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 82330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1	Backfill Material	Soluble	Solid	DI Leach	
MB 880-82330/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 82330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1 MS	Backfill Material	Soluble	Solid	DI Leach	
880-44252-1 MSD	Backfill Material	Soluble	Solid	DI Leach	

Analysis Batch: 82407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44252-1	Backfill Material	Soluble	Solid	300.0	82330
MB 880-82330/1-A	Method Blank	Soluble	Solid	300.0	82330
LCS 880-82330/2-A	Lab Control Sample	Soluble	Solid	300.0	82330
LCSD 880-82330/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	82330
880-44252-1 MS	Backfill Material	Soluble	Solid	300.0	82330
880-44252-1 MSD	Backfill Material	Soluble	Solid	300.0	82330

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Lab Chronicle

Client: Carmona Resources
 Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
 SDG: Eddy County, New Mexico

Client Sample ID: Backfill Material

Lab Sample ID: 880-44252-1

Date Collected: 06/03/24 00:00

Matrix: Solid

Date Received: 06/04/24 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	82265	06/04/24 12:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	82256	06/04/24 15:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			82385	06/04/24 15:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			82675	06/06/24 15:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	82244	06/03/24 19:14	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	82547	06/06/24 15:02	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	82330	06/05/24 07:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	82407	06/06/24 14:13	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date												
Texas	NELAP	T104704400-23-26	06-30-24												
<p>The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.</p> <table border="1"> <thead> <tr> <th>Analysis Method</th> <th>Prep Method</th> <th>Matrix</th> <th>Analyte</th> </tr> </thead> <tbody> <tr> <td>8015 NM</td> <td></td> <td>Solid</td> <td>Total TPH</td> </tr> <tr> <td>Total BTEX</td> <td></td> <td>Solid</td> <td>Total BTEX</td> </tr> </tbody> </table>				Analysis Method	Prep Method	Matrix	Analyte	8015 NM		Solid	Total TPH	Total BTEX		Solid	Total BTEX
Analysis Method	Prep Method	Matrix	Analyte												
8015 NM		Solid	Total TPH												
Total BTEX		Solid	Total BTEX												

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Method Summary

Client: Carmona Resources
Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
SDG: Eddy County, New Mexico

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Carmona Resources
Project/Site: Zia Hills Unit 2731 WC 004H & 007H

Job ID: 880-44252-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44252-1	Backfill Material	Solid	06/03/24 00:00	06/04/24 12:00

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V



890-44252 Chain of Custody

6/7/2024

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

Page 1 of 1

Work Order Comments
 Program: UST/ST PRP Brownfields RC Perfund
 State of Project: _____
 Reporting Level II Level III ST/UST PRP Level IV
 Deliverables: EDD ADAPT Other: _____

Project Name:	Zia Hills Unit 2731 WC 004H & 007H	Turn Around	Prn. Code	ANALYSIS REQUEST		Preservative Codes															
Project Number:	2262	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	72 Hours	BTEX 8021B	X	None: NO DI Water: H ₂ O															
Project Location:	Eddy County, New Mexico	Due Date:		TPH 8015M (GRO + DRO + MRO)	X	Coil: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na															
Sampler's Name:	CRM			Chloride 300.0	X	H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NASO ₅ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC															
PO #:																					
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:																		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																			
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:																			
Total Containers:		Corrected Temperature:																			
Sample Identification	Date	Time	Soil	Water	Grab Comp	# of Cont	Parameters														
Backfill Material	6/3/2024		X		C	1															

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-44252-1
SDG Number: Eddy County, New Mexico

Login Number: 44252

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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District I
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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 360136

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 360136
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333151428
Incident Name	NAPP2333151428 ZIA HILLS UNIT 2731 WC 004H & 007H @ 0
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2129428702] Zia Hills CF

Location of Release Source

Please answer all the questions in this group.

Site Name	ZIA HILLS UNIT 2731 WC 004H & 007H
Date Release Discovered	11/08/2023
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	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	Cause: Equipment Failure Other (Specify) Other (Specify) Released: 9 BBL Recovered: 5 BBL Lost: 4 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Frac Fluid was released due to a stalled transmission causing the blender tubs to overflow.

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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, Page 2

Action 360136

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 360136
	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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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	<i>Not answered.</i>

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: 07/01/2024
--	---

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QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 360136
	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 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	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	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	1840
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9
GRO+DRO (EPA SW-846 Method 8015M)	9
BTEX (EPA SW-846 Method 8021B or 8260B)	0.2
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	02/22/2024
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)	02/24/2024
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	2625
What is the estimated volume (in cubic yards) that will be remediated	120

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

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

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QUESTIONS, Page 4

Action 360136

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 360136
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Zia Hills 25E [fAPP2129430249]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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: 07/01/2024
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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 5

Action 360136

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 360136
	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 360136

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 360136
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	316377
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	24
What was the sampling surface area in square feet	4600

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	2625
What was the total volume (cubic yards) remediated	120
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Based on lab analytical results, the area of concern displayed concentrations below regulatory thresholds for TPH, Chloride, & BTEX Chloride 1840 TPH <10 GRO+DRO <10 BTEX <0.300 Benzene <0.050

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: 07/01/2024
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QUESTIONS, Page 7

Action 360136

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 360136
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 360136

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 360136
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/30/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/30/2024