

### SITE INFORMATION

Closure Report
Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)
Incident ID: nAPP2428155987
Unit I Sec 14 T25S R34E
32.1303372°, -103.4355043°
Lea County, New Mexico

**Produced Water Release** 

Point of Release: Equipment Failure; improper connection between flowline and transfer

pump

**Release Date: 10.07.2024** 

Volume Released: 172 Barrels of Produced Water Volume Recovered: 172 Barrels of Produced Water

# CARMONA RESOURCES



Prepared for: Marathon Oil Corporation 990 Town and Country Blvd, Houston, Texas 77024

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



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February 26, 2025

New Mexico Oil Conservation Division 1220 South St, Francis Drive Santa Fe, NM 87505

**Re:** Closure Report

Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)

Marathon Oil Corporation Incident ID: nAPP2428155987

Site Location: Unit I, S14, T25S, R34E (Lat 32.1303372°, Long -103.4355043°)

Lea County, New Mexico

To whom it may concern:

On behalf of Marathon Oil Corporation, Carmona Resources, LLC has prepared this letter to document the Dogie Draw E25 W25 Fed Com CTB TB site activities. The site is located at 32.1303372°, -103.4355043° within Unit I, S14, T25S, R34E, in Lea County, New Mexico (Figures 1 and 2).

### 1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the incident was discovered on October 7, 2024, due to the improper connection between a flowline and transfer pump. The incident released approximately one hundred seventy-two (172) barrels of produced water, with one hundred seventy-two (172) barrels of produced water recovered. All fluids were contained on pad. See Figure 3. The Notice of Release form is attached in Appendix C.

### 2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest well is located approximately 0.80 miles West of the site in S15, T25S, R34E and was drilled in 2013. The well has a reported groundwater depth of 174.06' feet below the ground surface (ft bgs). The second closest well is located approximately 1.71 miles Southeast of the site in S24, T25S, R34E and was drilled in 1949. The well has a reported groundwater depth of 300' feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

On October 23, 2024, the New Mexico Oil Conservation Division (NMOCD) was notified via email requesting a groundwater variance per the groundwater criteria established in 19.15.29.14 NMAC. The surrounding wells indicate the depth to groundwater at this site is estimated to being greater than 100' feet below the ground surface (ft bgs). The variance request was approved and granted by the NMOCD on October 25, 2024. See Appendix C for the NMOCD correspondence.

### 3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 20,000 mg/kg.



### 4.0 Site Assessment Activities

On October 15, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical and horizontal extent, five (5) trench points (S-1 through S-5) and eight (8) horizontal points (H-1 through H-8) were advanced to depths ranging from the surface to 4' bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

All samples were below the established regulatory criteria for TPH, BTEX, and chloride. See Table 1 for the analytical results.

### **5.0 Confirmation Sampling Activities**

A single confirmation sample was requested by the NMOCD. Carmona Resources personnel were on site to collect a confirmation sample. Before collecting composite confirmation samples, the NMOCD division office was notified via email on January 7, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of one (1) floor confirmation samples were collected (CS-1) every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The confirmation sample locations are shown in Figure 4.

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

### 6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

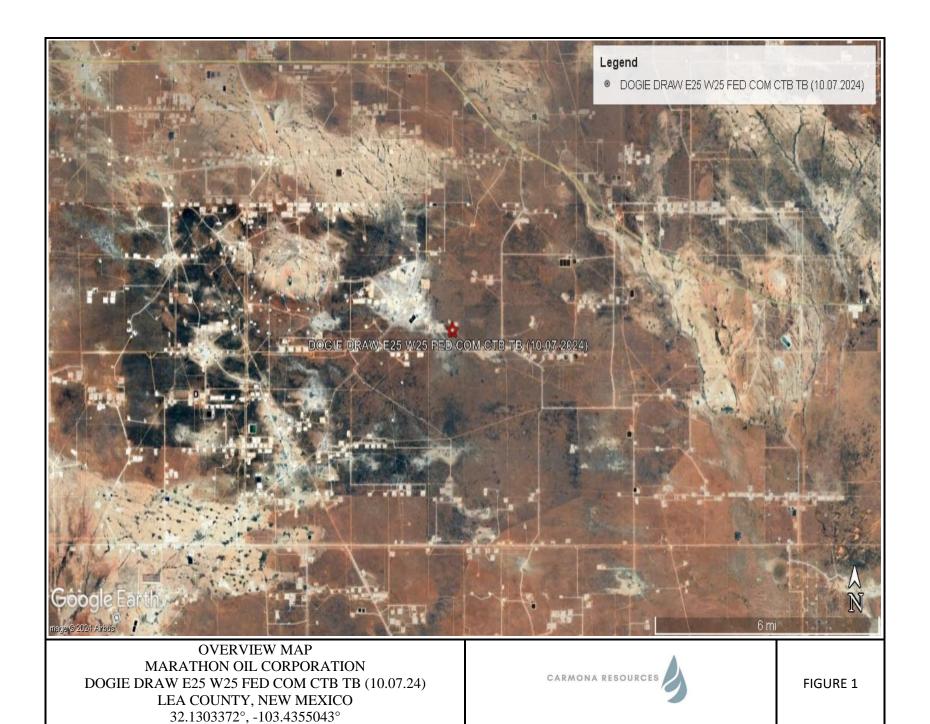
Conner Moehring

Sr. Project Manager

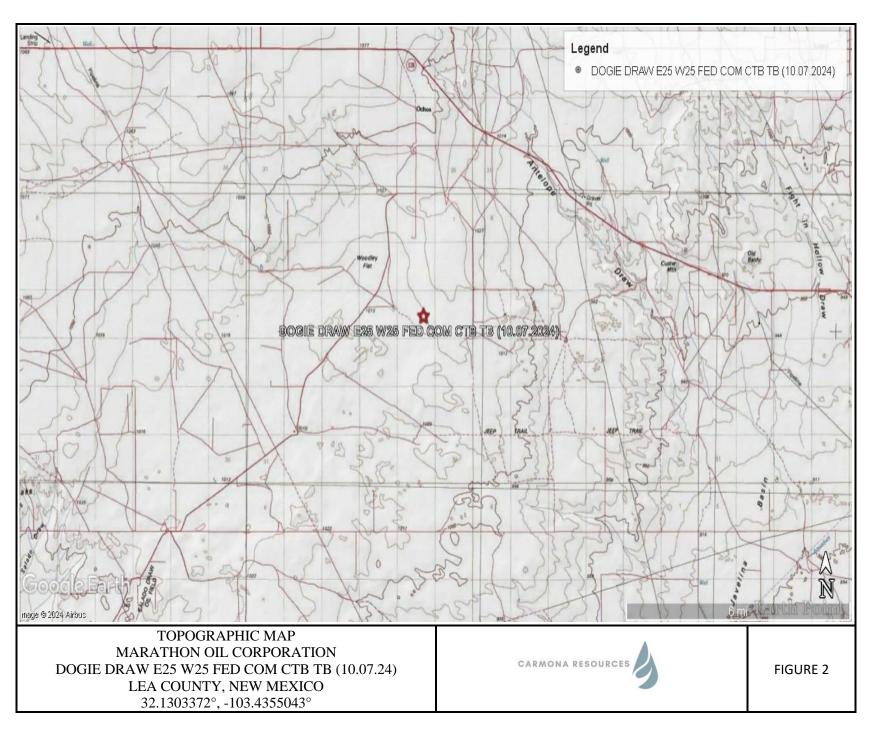
Ivan Ramos Project Manager

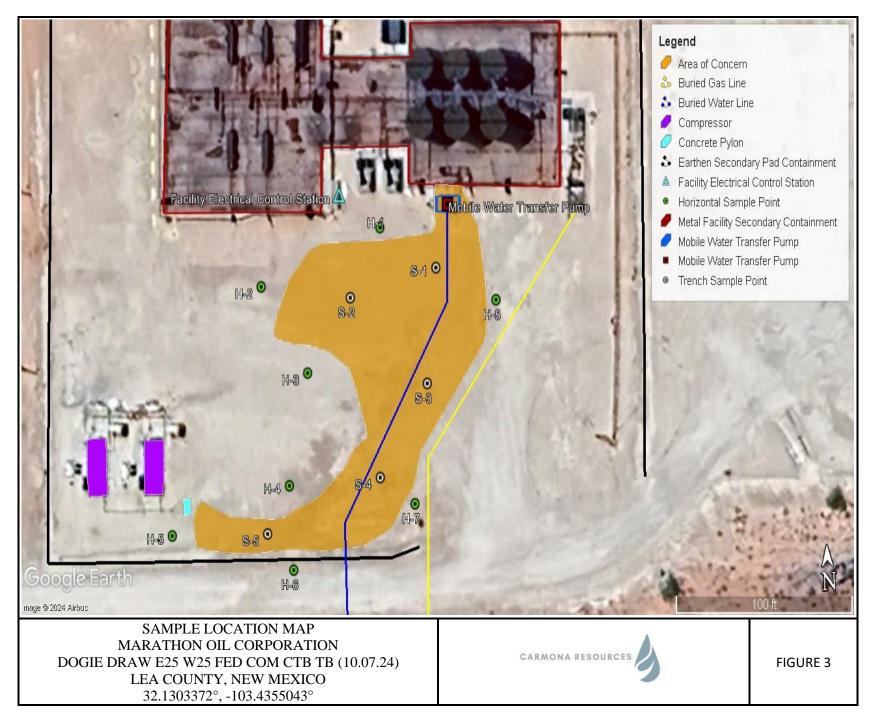
# **FIGURES**

# CARMONA RESOURCES



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# **APPENDIX A**



Table 1 **Marathon Oil** Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024) Lea County, New Mexico

Cample ID	Date	Donath (ft)		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	0.00455	0.0157	0.0202	2,810
S-1	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,080
	"	2'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,710
	"	3'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	29.9
	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	455
S-2	"	1.5'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.92
	"	2'	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<10.1
	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,860
6.2	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,590
S-3	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00199	0.00216	<0.00199	<0.00398	<0.00398	2,880
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	49.5
	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,180
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,530
S-4	"	2'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,710
	"	3'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,250
	"	4'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	43.1
	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,180
S-5	"	1.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	13.8
3-3	"	2'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	10.0
	"	3'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<10.1
H-1	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00401	<0.00401	<0.00401	<10.0
H-2	10/15/2024	0-1'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00398	<0.00398	<0.00398	<10.1
H-3	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00399	<0.00399	<0.00399	<9.98
H-4	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00397	<0.00397	<0.00397	<10.0
H-5	10/15/2024	0-1'	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00402	<0.00402	<0.00402	<9.96
H-6	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00401	<0.00401	<0.00401	<9.92
H-7	10/15/2024	0-1'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00398	<0.00398	<0.00398	<10.1
H-8	10/15/2024	0-1'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00398	<0.00398	<0.00398	<9.92
BACKGROUND	10/15/2024	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	22.8
	ry Criteria <sup>A</sup>		1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg
(-) Not	Analyzed											

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet

(S) Sample Point (H) Horizontal Point

Table 2

### **Marathon Oil**

### **Dogie Draw E25 W25 Fed Com CTB TB (10.07.2024)**

### **Lea County, New Mexico**

		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride			
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
CS-1	1/10/2025	Surface	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,190
Regulator	ry Criteria <sup>A</sup>		1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) Confirmation Sample

# **APPENDIX B**

# CARMONA RESOURCES

### **Marathon Oil Corporation**

### Photograph No. 1

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View Southwest of area of concern.



### Photograph No. 2

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View South of area of concern.



### Photograph No. 3

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View East of area of concern.



### **Marathon Oil Corporation**

### Photograph No. 4

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View Northeast of area of concern.



### Photograph No. 5

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View Southeast of area of concern.



### Photograph No. 6

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View Northeast of area of concern.



### **Marathon Oil Corporation**

### Photograph No. 7

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View West of area of concern.



### Photograph No. 8

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View North of area of concern.



### Photograph No. 9

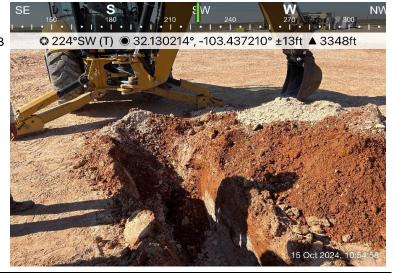
Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View Southwest, area of S-1.



### **Marathon Oil Corporation**

### Photograph No. 10

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View Southwest, area of S-2.



### Photograph No. 11

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View Southwest, area of S-3.



### Photograph No. 12

Facility: Dogie Draw E25 W25 Fed Com CTB

TB (10.07.2024)

County: Lea County, New Mexico

**Description:** 

View Southeast, area of S-4.



# **APPENDIX C**

# CARMONA RESOURCES

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

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 390494

### **QUESTIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	390494
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

### QUESTIONS

Location of Release Source				
Please answer all the questions in this group.				
Site Name	DOGIE DRAW E25 W25 FED COM CTB TB			
Date Release Discovered	10/07/2024			
Surface Owner	Private			

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

lature and Volume of Release	
laterial(s) released, please answer all that apply below. Any calculations or specific justifications	for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 172 BBL   Recovered: 172 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A flow line connected to a water transfer pump failed resulting in a release of 171.8 bbl of produced water onto location. Recovery efforts are ongoing. The leak is isolated.

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

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

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

QUESTIONS, Page 2

Action 390494

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Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	390494
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

### QUESTIONS

Nature and Volume of Release (continued)						
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.					
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes					
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.					
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 s	afety hazard that would result in injury.				
The source of the release has been stopped	True				
The impacted area has been secured to protect human health and the environment	True				
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True				
All free liquids and recoverable materials have been removed and managed appropriately	True				
If all the actions described above have not been undertaken, explain why	Not answered.				

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

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

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

ACKNOWLEDGMENTS

Action 390494

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	390494
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

### **ACKNOWLEDGMENTS**

$\checkmark$	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
V	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.
V	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.
V	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.
V	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.
V	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.

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

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

CONDITIONS

Action 390494

### **CONDITIONS**

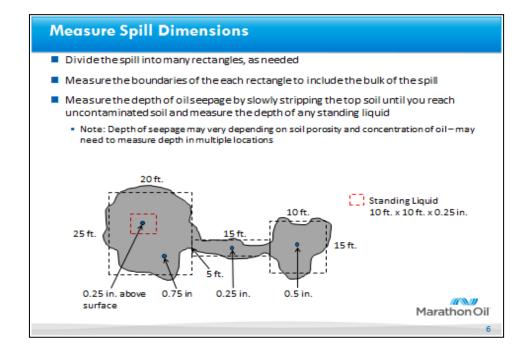
Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	390494
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

### CONDITIONS

Created By	Condition	Condition Date
cswansonsteege	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/7/2024

## **MRO Spill Calculation Tool**

		Width (ft.) (Area for	Avg. Liquid		Total Volume	Water Volume	
-	Length (ft.)	Displacement)	Depth (in.)	% Oil	(bbls)	(bbls)	Oil Volume (bbls)
Rectangle Area #1	70	54	3		168.31	168.31	0.00
Rectangle Area #2	4	5	12		3.56	3.56	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
Vessel Displacement					0.00	0.00	0.00
				Liquid Volume:	171.87	171.87	0.00
Saturated Soil Inputs:	Length (ft.)	Soil Type: Width (ft.) / (SQ Ft)	Gravel or Sand  Avg. Saturated  Depth (in.)	% Oil	Total Volume (bbls)	Water Volume (bbls)	Oil Volume (bbls)
Rectangle Area #1					0.00	0.00	0.00
Rectangle Area #2					0.00	0.00	0.00
Rectangle Area #3					0.00	0.00	0.00
Rectangle Area #4					0.00	0.00	0.00
Rectangle Area #5					0.00	0.00	0.00
Rectangle Area #6					0.00	0.00	0.00
SQ FT Calc					0.00	0.00	0.00
Rectangle Area #8					0.00	0.00	0.00
				Saturated Volume	0.00	0.00	0.00
	Total Volume Water Volume (bbls) (bbls) Oil Volume (bbls)						
			•	oill Volume (bbls):	171.87	171.87	0.00
			Total Sp	pill Volume (gals):	7218.70	7218.70	0.00
omments:							
			Color Key:	Required Input Cells	Supplemental Input Cells	No Input (Calculations)	No Input
			k.				
		Gro	und/Vegetatio	n Overspray			
Cover Type			und/Vegetatio Approximate De				
Cover Type Ground			-				
		Microns	-				



1/8" 1/4" 1/2" 3/4"

Number of Tanks Area of Displacement (Ft2)

12 2256

Released to Imaging: 4/9/2025240:23:3244AMM

0.125

0.25

0.5

0.75

Clay Loam Gravel or Sand Gravel Loam Sandy Clay Loam

0.16

0.08

0.14

0.14

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

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 399577

### **QUESTIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	399577
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

### QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2428155987			
Incident Name	NAPP2428155987 DOGIE DRAW E25 W25 FED COM CTB TB @ 0			
Incident Type	Produced Water Release			
Incident Status	Initial C-141 Received			
Incident Facility	[fAPP2415147694] DOGIE DRAW E25 W25 FED COM CTB TB			

Location of Release Source				
Please answer all the questions in this group.				
Site Name	DOGIE DRAW E25 W25 FED COM CTB TB			
Date Release Discovered	10/07/2024			
Surface Owner	Private			

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

Nature and Volume of Release				
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 172 BBL   Recovered: 172 BBL   Lost: 0 BBL.			
Is the concentration of chloride in the produced water >10,000 mg/l	Yes			
Condensate Released (bbls) Details	Not answered.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Not answered.			
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A flow line connected to a water transfer pump failed resulting in a release of 171.8 bbl of produced water onto location. Recovery efforts are ongoing. The leak is isolated.			

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1220 S. St Francis Dr., Santa Fe, NM 87505

**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 399577

Phone:(505) 476-3470 Fax:(505) 476-3462		
QUES	TIONS (continued)	
Operator:  MARATHON OIL PERMIAN LLC	OGRID: 372098	
990 Town & Country Blvd.	Action Number:	
Houston, TX 77024	399577	
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas	(i.e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a	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, absorben pads, or other containment devices	t True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o leted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for rel the OCD does not relieve the operator of liability should their operations have failed to	y knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by a adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor	

Email: swansonste@marathonoil.com

Date: 11/12/2024

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

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

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

QUESTIONS, Page 3

Action 399577

	214	continu	
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Operator:	OGRID:	
MARATHON OIL PERMIAN LLC	372098	
990 Town & Country Blvd.	Action Number:	
Houston, TX 77024	399577	
	Action Type:	
	[C-141] Initial C-141 (C-141-v-Initial)	

### QUESTIONS

Site Characterization			
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.			
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.		
What method was used to determine the depth to ground water	Not answered.		
Did this release impact groundwater or surface water	Not answered.		
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:			
A continuously flowing watercourse or any other significant watercourse	Not answered.		
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.		
An occupied permanent residence, school, hospital, institution, or church	Not answered.		
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.		
Any other fresh water well or spring	Not answered.		
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.		
A wetland	Not answered.		
A subsurface mine	Not answered.		
An (non-karst) unstable area	Not answered.		
Categorize the risk of this well / site being in a karst geology	Not answered.		
A 100-year floodplain	Not answered.		
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.		

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

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

CONDITIONS

Action 399577

### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	399577
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

### CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/13/2024

### **Conner Moehring**

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

**Sent:** Friday, October 25, 2024 10:21 AM

To: Conner Moehring

**Cc:** Mike Carmona; Devin Dominguez; Stephen Reyes

Subject: Re: [EXTERNAL] Marathon - Dogie Draw Ender Wiggins - Groundwater Variance

Good morning Conner,

Thank you for the correspondence and information. Your variance per 19.15.29.14 NMAC toward the depth to water estimate being >100 feet below grade is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez ● Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



**From:** Conner Moehring < Cmoehring@carmonaresources.com>

Sent: Wednesday, October 23, 2024 12:46 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Cc: Mike Carmona < Mcarmona@carmonaresources.com >; Devin Dominguez < Ddominguez@carmonaresources.com >;

Stephen Reyes <SReyes@carmonaresources.com>

Subject: [EXTERNAL] Marathon - Dogie Draw Ender Wiggins - Groundwater Variance

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

Marathon had a release at the above-mentioned site. The groundwater research and the table showing the lab results for the initial assessment are attached. Marathon requests a groundwater variance utilizing the USGS water well located 0.80 miles to the West and the reported groundwater of 174.06'. The other wells in the area are dry at a 100' below the ground surface and reported depth to water being deeper. The spill occurred and stayed on the pad and in a low karst area.

Please call if you have any questions or need any additional information.

Conner R. Moehring 310 West Wall Street, Suite 500 Midland TX, 79701 M: 432-813-6823 cmoehring@carmonaresources.com Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS

Action 418083

Ql	JESTIONS	
Operator:  MARATHON OIL PERMIAN LLC  990 Town & Country Blvd.  Houston, TX 77024		OGRID: 372098 Action Number: 418083
		Action Type: [NOTIFY] Notification Of Sampling (C-141N)
QUESTIONS		, , , , , , , , , , , , , , , , , , , ,
Prerequisites		
Incident ID (n#)	nAPP2428155987	
Incident Name	NAPP2428155987 DOG	IE DRAW E25 W25 FED COM CTB TB @ 0
Incident Type	Produced Water Relea	ase
Incident Status	Initial C-141 Approved	
Incident Facility	[fAPP2415147694] DOG	GIE DRAW E25 W25 FED COM CTB TB
Location of Release Source		
Location of Release Source	T	
Site Name	DOGIE DRAW E25 W25	FED COM CTB TB
Date Release Discovered	10/07/2024	
Surface Owner	Private	
Sampling Event General Information		
Please answer all the questions in this group.  What is the sampling surface area in square feet	200	
What is the estimated number of samples that will be gathered	1	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/10/2024	
Time sampling will commence	08:00 AM	
Warning: Notification can not be less than two business days prior to conducting final sampling	g.	
Please provide any information necessary for observers to contact samplers	Conner Moehring - 432	28136823
Please provide any information necessary for navigation to sampling site	32.130218, -103.43723	30

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 418083

### **CONDITIONS**

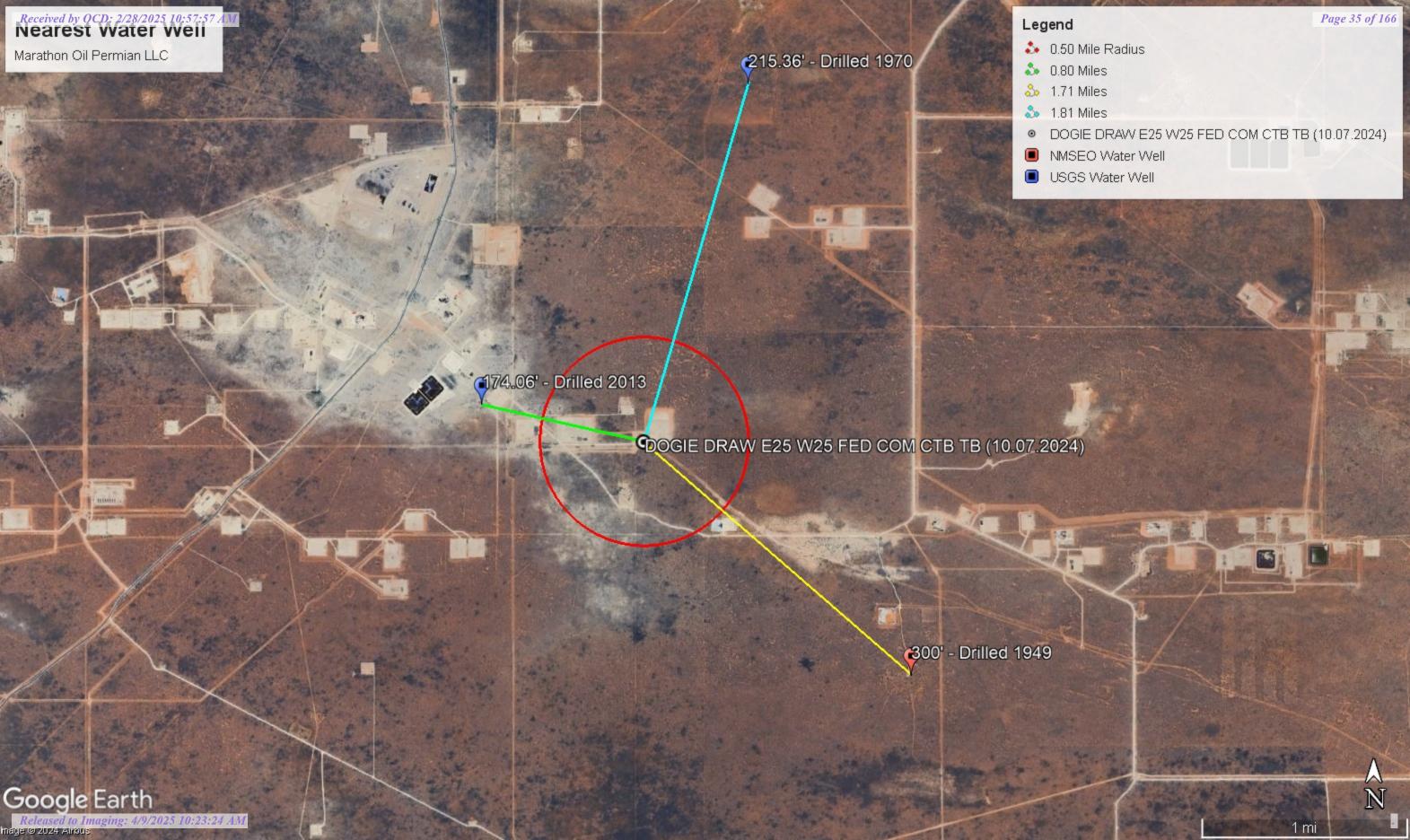
Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	418083
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

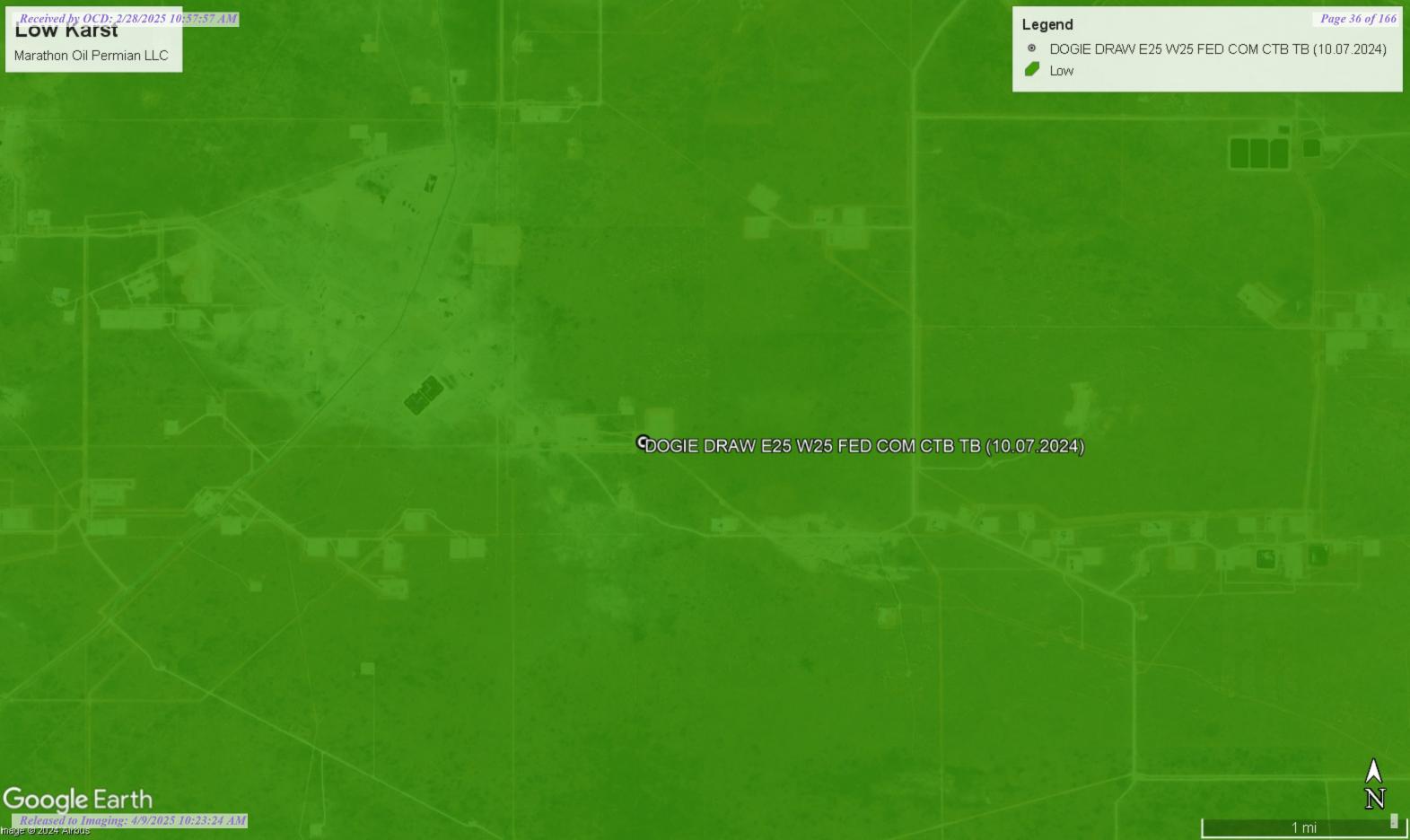
### CONDITIONS

Created By		Condition Date
cmoehring	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/7/2025

# **APPENDIX D**

# CARMONA RESOURCES







## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth	Depth Water	Water Column
<u>C 02314</u>		CUB	LE	NE	SE	NE	15	25S	34E	646116.1	3556179.4		1323	175	135	40
<u>C 02315</u>		CUB	LE	NE	SE	NE	15	25S	34E	646094.9	3556194.5	•	1347	175	135	40
<u>C 02299</u>		CUB	LE	SE	NE	SE	24	25S	34E	649516.9	3554125.1	•	2761	350	300	50
<u>C 02296</u>		CUB	LE	SW	SE	NE	18	25S	35E	650845.7	3556088.3		3438	300	230	70

Average Depth to Water: 200 feet

Minimum Depth: 135 feet

Maximum Depth: 300 feet

**Record Count:** 4

**UTM Filters (in meters):** 

**Easting:** 647412.00 **Northing:** 3555912.00

**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.

<sup>\*</sup> UTM location was derived from PLSS - see Help



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- · How are we doing? We want to hear from you. Take our quick survey to tell us what you think.

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

#### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320738103270501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320738103270501 25S.34E.15.24234

Lea County, New Mexico Latitude 32°07'57.1", Longitude 103°27'02.4" NAD83 Land-surface elevation 3,345.00 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

#### **Output formats**

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1954-07-23		D	62610		3180.06	NGVD29	Р	Z			
1954-07-23		D	62611		3181.62	NAVD88	P	Z			
1954-07-23		D	72019	164.94			P	Z			
1970-12-08		D	62610		3181.78	NGVD29	Р	Z			
1970-12-08		D	62611		3183.34	NAVD88	Р	Z			
1970-12-08		D	72019	163.22			Р	Z			
1976-01-15		D	62610		3179.20	NGVD29	1	Z			
976-01-15		D	62611		3180.76	NAVD88	1	Z			
1976-01-15		D	72019	165.80			1	Z			
.981-03-25		D	62610		3182.20	NGVD29	1	Z			
1981-03-25		D	62611		3183.76	NAVD88	1	Z			
981-03-25		D	72019	162.80			1	Z			
1986-03-12		D	62610		3184.76	NGVD29	1	Z			
1986-03-12		D	62611		3186.32	NAVD88	1	Z			
1986-03-12		D	72019	160.24			1	Z			
1991-06-05		D	62610		3179.90	NGVD29	1	Z			
1991-06-05		D	62611		3181.46	NAVD88	1	Z			
1991-06-05		D	72019	165.10			1	Z			
2013-01-16	21:30 UTC	m m	62610		3170.94	NGVD29	Р	S	USG	S :	S
2013-01-16	21:30 UTC	m m	62611		3172.50	NAVD88	P	S	USG	S :	S
2013-01-16	21:30 UTC	m m	72019	174.06			P	S	USG	S :	S

Exp	lana	tion
LAP	ana	LIOII

Section Code Description

Date	Time	? Water-level date-time accuracy	? Param code	eter	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Methomeasu
Parameter code			72019	Depth to wat	ter level, feet belov	w land surface			
Referenced vertical da	itum	1	IAVD88	North Americ	can Vertical Datum	of 1988			
Referenced vertical da	itum	N	IGVD29	National Geo	detic Vertical Datu	m of 1929			
Status			1	Static					
Status			P	Pumping					
Method of measureme	ent		S	Steel-tape m	easurement.				
Method of measureme	ent		Z	Other.					
Measuring agency				Not determin	ned				
Measuring agency			USGS	U.S. Geologi	cal Survey				
Source of measureme	nt			Not determin	ned				
Source of measureme	nt		S	Measured by	personnel of repo	rting agency.			
Water-level approval s	status		Α	Approved for	publication Pro	cessing and review cor	npleted.		

**Questions or Comments** Help Data Tips

Explanation of terms

Subscribe for system changes

Accessibility FOIA U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2024-10-14 11:46:27 EDT

0.36 0.27 nadww01



# **Point of Diversion Summary**

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар
	C 02299	SE	NE	SE	24	25S	34E	649516.9	3554125.1	•

\* UTM location was derived from PLSS - see Help

**Driller License:** 122 **Driller Company:** UNKNOWN **Driller Name: UNKNOWN Drill Finish Date: Drill Start Date:** 1949-12-31 **Plug Date:** Log File Date: **PCW Rcv Date: Source: Pipe Discharge Size: Estimated Yield: Pump Type:** 3 **Casing Size:** 8.00 350 **Depth Water:** 300 **Depth Well:** 

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, or suitability for any particular purpose of the data.

10/14/24 9:51 AM MST Point of Diversion Summary

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Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320918103254301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320918103254301 25S.34E.01.143

Lea County, New Mexico Latitude 32°09'18", Longitude 103°25'43" NAD27 Land-surface elevation 3,396 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

O	utpu	t for	mats

Table of data											
Tab-separated data											
Graph of data											
Reselect period	Reselect period										
	? Water-	?	Water level,	Water level, feet	Referenced	?	?	?	?	?	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status	
1953-04-15		D	62610		3162.54	NGVD29	1	Z			Α	
1953-04-15		D	62611		3164.10	NAVD88	1	Z			Α	
1953-04-15		D	72019	231.90			1	Z			Α	
1968-06-12		D	62610		3171.39	NGVD29	1	Z			Α	
1968-06-12		D	62611		3172.95	NAVD88	1	Z			Α	
1968-06-12		D	72019	223.05			1	Z			Α	
1970-12-08		D	62610		3179.08	NGVD29	1	Z			Α	
1970-12-08		D	62611		3180.64	NAVD88	1	Z			Α	
1970-12-08		D	72019	215.36			1	Z			Α	

Explanation	
-------------	--

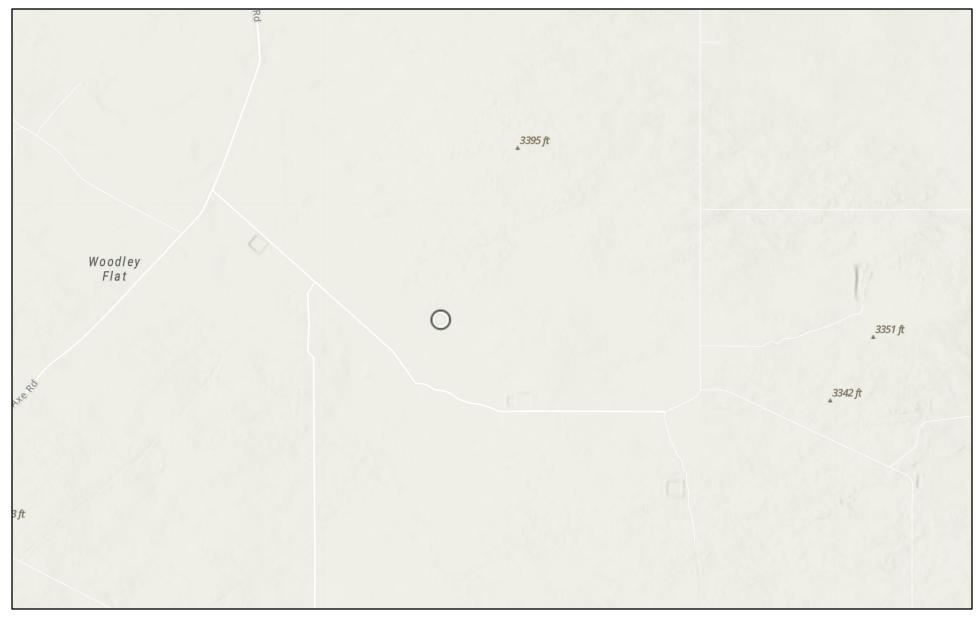
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum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

QHDHS Date Time ? Water Water Referenced ? level, feet below land level, feet vertical datum Water-level Parameter Status Metho above specific vertical datum date-time code meası accuracy surface USA.gov

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

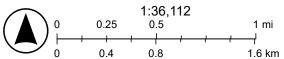
Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2024-10-14 11:47:27 EDT 0.32 0.24 nadww01

# DOGIE DRAW E25 W25 FED COM CTB TB (10.07.2024)



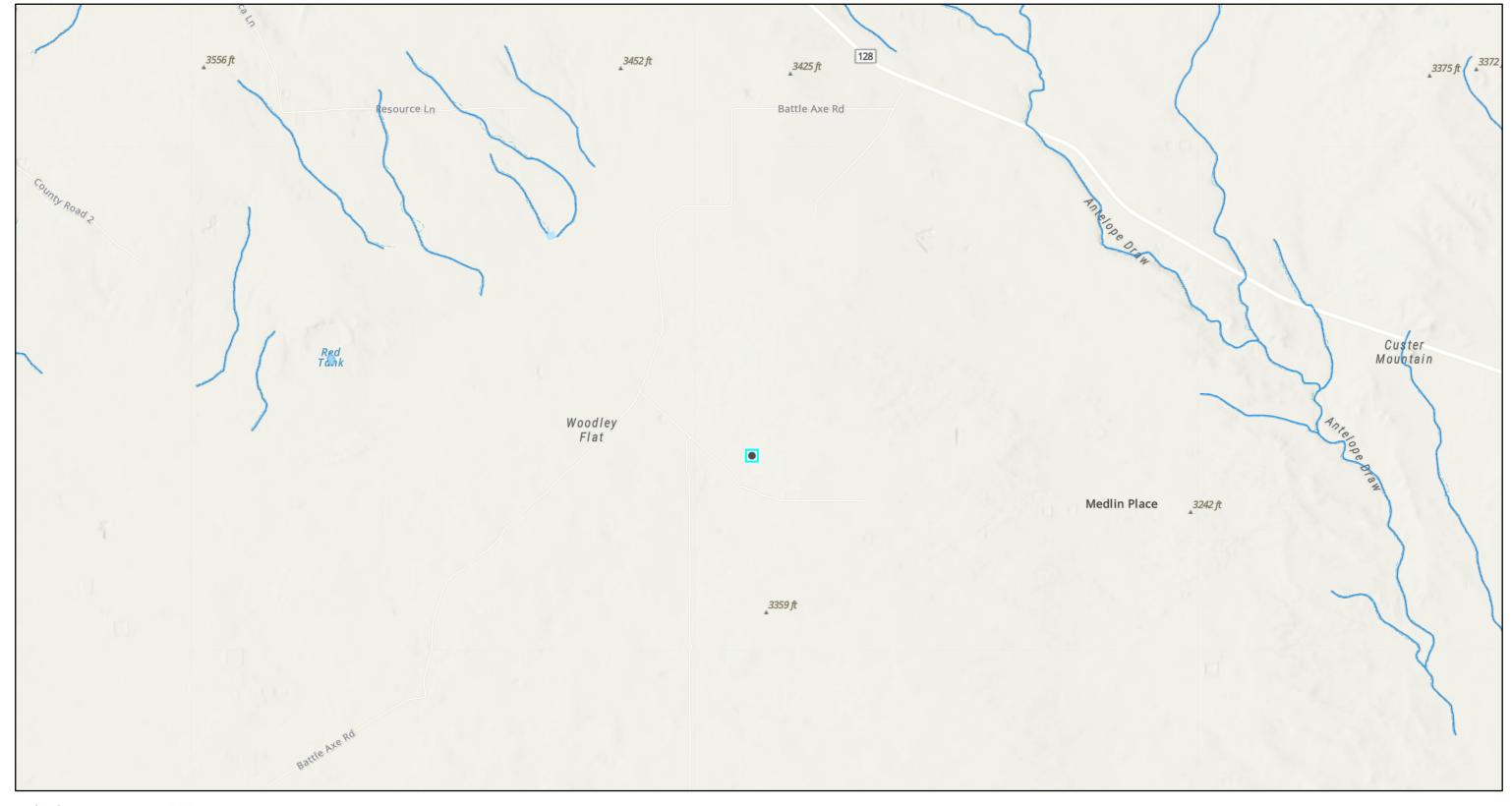
10/14/2024

World Hillshade



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

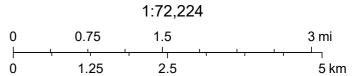
# DOGIE DRAW E25 W25 FED COM CTB TB (10.07.2024)



10/14/2024, 10:41:18 AM

OSW Water Bodys

OSE Streams



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA, NM OSE

# **APPENDIX E**

# CARMONA RESOURCES

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500

Midland, Texas 79701

Generated 10/21/2024 12:35:47 PM

## **JOB DESCRIPTION**

Dogie Draw Ender Wiggings Lea County, New Mexico

## **JOB NUMBER**

880-49854-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

## **Eurofins Midland**

## **Job Notes**

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

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

## **Authorization**

Generated 10/21/2024 12:35:47 PM

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

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Client: Carmona Resources Project/Site: Dogie Draw Ender Wiggings Laboratory Job ID: 880-49854-1 SDG: Lea County, New Mexico

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## **Definitions/Glossary**

Client: Carmona Resources Job ID: 880-49854-1 Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

### **Qualifiers**

$\sim$	_		_	•
G	U	V	U	А

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

#### **GC Semi VOA**

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
_	

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

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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 L

PRES	Presumptive
QC	Quality Control

QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

RI	Reporting Limit or Requested Limit (Radiochemistry)	١

RPD	Relative Percent Difference, a measure of the relative difference between two points	ıts

	•
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Carmona Resources Job ID: 880-49854-1

Project: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 Eurofins Midland

#### Job Narrative 880-49854-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The samples were received on 10/15/2024 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-49854-1), S-1 (1.5') (880-49854-2), S-1 (2') (880-49854-3), S-1 (3') (880-49854-4), S-2 (0-1') (880-49854-5), S-2 (1.5') (880-49854-6), S-2 (2') (880-49854-7), S-3 (0-1') (880-49854-8), S-3 (1.5') (880-49854-9), S-3 (2') (880-49854-10), S-3 (3') (880-49854-11), S-4 (0-1') (880-49854-12), S-4 (1.5') (880-49854-13), S-4 (2') (880-49854-14), S-4 (3') (880-49854-15), S-4 (4') (880-49854-16), S-5 (0-1') (880-49854-17), S-5 (1.5') (880-49854-18), S-5 (2') (880-49854-19) and S-5 (3') (880-49854-20).

#### **GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-93445 and analytical batch 880-93435 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (0-1') (880-49854-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### **Diesel Range Organics**

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-93443 exhibited % difference of > 20% for the following analyte(s)Diesel Range Organics (Over C10-C28). These results are within the acceptance limits but exceed the performance criteria.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-93420 and analytical batch 880-93443 was outside the upper control limits.

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-93419/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: The method blank for preparation batch 880-93419 and analytical batch 880-93440 contained Gasoline Range Organics (GRO)-C6-C10 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.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-93419/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-93419 and analytical batch 880-93440 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-93419 and analytical batch 880-93440 recovered outside control limits for the following analytes: Gasoline

**Eurofins Midland** 

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## **Case Narrative**

Client: Carmona Resources Job ID: 880-49854-1

Project: Dogie Draw Ender Wiggings

## Job ID: 880-49854-1 (Continued)

**Eurofins Midland** 

Range Organics (GRO)-C6-C10.

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

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-93459 and analytical batch 880-93474 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

**Eurofins Midland** 

10/21/2024

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-1

Matrix: Solid

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

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
Ethylbenzene	0.00455		0.00202		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
m-Xylene & p-Xylene	0.0114		0.00404		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
o-Xylene	0.00426		0.00202		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
Xylenes, Total	0.0157		0.00404		mg/Kg		10/16/24 09:36	10/16/24 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	301	S1+	70 - 130				10/16/24 09:36	10/16/24 12:09	1
1,4-Difluorobenzene (Surr)	79		70 - 130				10/16/24 09:36	10/16/24 12:09	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0202		0.00404		mg/Kg			10/16/24 12:09	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Method: SW846 8015 NM - Diese	•	. , ,	•	MDI	I I mid		Duamanad	Analysed	Dil Fee
Analyte	•	Qualifier	GC)  RL  50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/17/24 06:18	
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result   <50.0	Qualifier U	<b>RL</b> 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die:	Result <50.0	Qualifier U	<b>RL</b> 50.0			<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg			10/17/24 06:18	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier U*1	RL 50.0		mg/Kg		Prepared	10/17/24 06:18  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result Sel Range Orga Result <50.0	Qualifier U unics (DRO) Qualifier U *1 U *+	RL		mg/Kg  Unit mg/Kg		Prepared 10/15/24 19:51	10/17/24 06:18  Analyzed  10/17/24 06:18	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U  unics (DRO) Qualifier U *1 U *+	RL 50.0  (GC)  RL 50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51	Analyzed 10/17/24 06:18  Analyzed 10/17/24 06:18 10/17/24 06:18 10/17/24 06:18	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  unics (DRO) Qualifier U *1 U *+	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51	10/17/24 06:18  Analyzed 10/17/24 06:18 10/17/24 06:18	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U  unics (DRO) Qualifier U *1 U *+	RL     50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51 Prepared	Analyzed 10/17/24 06:18  Analyzed 10/17/24 06:18 10/17/24 06:18 10/17/24 06:18 Analyzed	Dil Face
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  unics (DRO) Qualifier U *1 U *+ U Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51 Prepared 10/15/24 19:51	Analyzed 10/17/24 06:18  Analyzed 10/17/24 06:18  10/17/24 06:18  Analyzed 10/17/24 06:18	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  unics (DRO) Qualifier U *1 U *+ U Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51 Prepared 10/15/24 19:51	Analyzed 10/17/24 06:18  Analyzed 10/17/24 06:18  10/17/24 06:18  Analyzed 10/17/24 06:18	Dil Face

Client Sample ID: S-1 (1.5') Lab Sample ID: 880-49854-2 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				10/16/24 09:36	10/16/24 12:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130				10/16/24 09:36	10/16/24 12:30	1

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-2

Analyzed

10/16/24 15:43

Matrix: Solid

Cile	nτ	Sam	DIE	)	D:	5-	1	(1.5	)

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/16/24 12:30	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/24 06:33	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *+	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:33	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				10/15/24 19:51	10/17/24 06:33	1
o-Terphenyl	94		70 - 130				10/15/24 19:51	10/17/24 06:33	1

Client Sample ID: S-1 (2') Lab Sample ID: 880-49854-3 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

RL

101

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

5080 F1

Date Received: 10/15/24 16:50

Released to Imaging: 4/9/2025 10:23:24 AM

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				10/16/24 09:36	10/16/24 12:50	1
	100		70 - 130				10/16/24 09:36	10/16/24 12:50	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte				MDL	Unit	D			
Method: TAL SOP Total BTEX	- Total BTEX Cald					_			·
	- Total BTEX Cald	Qualifier	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 12:50	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00399	<b>Qualifier</b> U	RL 0.00399	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00399 esel Range Organ	<b>Qualifier</b> U	RL 0.00399	MDL MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00399		mg/Kg	_ =	Prepared	Analyzed 10/16/24 12:50	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Did Analyte	esel Range Organ Result 49.9	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399 GC) RL 49.9		mg/Kg	_ =	Prepared	Analyzed 10/16/24 12:50 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Did Analyte Total TPH	esel Range Organ Result 49.9 Diesel Range Organ	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399 GC) RL 49.9		mg/Kg  Unit mg/Kg	_ =	Prepared	Analyzed 10/16/24 12:50 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Did Analyte Total TPH  Method: SW846 8015B NM - E	esel Range Organ Result 49.9 Diesel Range Organ	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00399  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/16/24 12:50  Analyzed 10/17/24 06:47	Dil Fac

**Eurofins Midland** 

Dil Fac

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-3

Matrix: Solid

Matrix: Solid

Client Sample ID: S-1 (2')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:51	10/17/24 06:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				10/15/24 19:51	10/17/24 06:47	1
o-Terphenyl	95		70 - 130				10/15/24 19:51	10/17/24 06:47	1

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3710		49.6		mg/Kg			10/16/24 16:02	5

Client Sample ID: S-1 (3') Lab Sample ID: 880-49854-4 Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:11	
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:11	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:11	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 13:11	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:11	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 13:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130				10/16/24 09:36	10/16/24 13:11	
1,4-Difluorobenzene (Surr)	104		70 - 130				10/16/24 09:36	10/16/24 13:11	
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/16/24 13:11	
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			10/17/24 07:02	
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.8	U *1	49.8		mg/Kg		10/15/24 19:51	10/17/24 07:02	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 07:02	
C10-C28) Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:51	10/17/24 07:02	
Oil Range Organics (Over C28-C36)			49.8		mg/Kg				
,	<49.8 <b>%Recovery</b> 101				mg/Kg		10/15/24 19:51  Prepared  10/15/24 19:51	10/17/24 07:02  Analyzed  10/17/24 07:02	Dil Fa
Oil Range Organics (Over C28-C36)  Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fa
Oil Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane o-Terphenyl	%Recovery 101 99	Qualifier	Limits 70 - 130 70 - 130		mg/Kg		Prepared 10/15/24 19:51	Analyzed 10/17/24 07:02	Dil Fa
Oil Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane	%Recovery 101 99 Chromatograp	Qualifier	Limits 70 - 130 70 - 130	MDL	mg/Kg	D	Prepared 10/15/24 19:51	Analyzed 10/17/24 07:02	Dil Fa

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-5

Client Sample ID: S-2 (0-1') Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Matrix: Solid

Job ID: 880-49854-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
Toluene	< 0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				10/16/24 09:36	10/16/24 13:31	1
1,4-Difluorobenzene (Surr)	104		70 - 130				10/16/24 09:36	10/16/24 13:31	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/16/24 13:31	1
Method: SW846 8015 NM - Diese					g/.tg			10,10,21100	
<del>-</del> -	el Range Organ Result	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.8	ics (DRO) (C	RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <a href="#">&lt;49.8</a> sel Range Organ	ics (DRO) (C	RL 49.8	MDL	Unit mg/Kg	D_	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result <a href="#">&lt;49.8</a> sel Range Organ	ics (DRO) (( Qualifier U  nics (DRO) Qualifier	RL 49.8 (GC)		Unit mg/Kg			Analyzed 10/17/24 07:16	1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result <a href="#">&lt;49.8</a> sel Range Orga Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U *1	GC)  RL  49.8  (GC)  RL		Unit mg/Kg		Prepared	Analyzed 10/17/24 07:16 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 49.8 sel Range Orga Result 49.8	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U *1 U *+	(GC)  RL 49.8  (GC)  RL 49.8		Unit mg/Kg  Unit mg/Kg		Prepared 10/15/24 19:51	Analyzed  10/17/24 07:16  Analyzed  10/17/24 07:16	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.8 sel Range Orga Result 49.8 49.8	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U *1 U *+ U	GC)  RL 49.8  (GC)  RL 49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51	Analyzed 10/17/24 07:16  Analyzed 10/17/24 07:16 10/17/24 07:16	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 49.8 sel Range Orga Result 49.8 49.8 49.8 <49.8	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U *1 U *+ U	GC)  RL 49.8  (GC) RL 49.8  49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51	Analyzed 10/17/24 07:16  Analyzed 10/17/24 07:16 10/17/24 07:16 10/17/24 07:16	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U *1 U *+ U	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51 Prepared	Analyzed 10/17/24 07:16  Analyzed 10/17/24 07:16 10/17/24 07:16 10/17/24 07:16 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	el Range Organ Result <49.8  sel Range Orga Result <49.8  <49.8  <49.8  %Recovery  95 93	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U *1 U *+ U  Qualifier	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51  Prepared 10/15/24 19:51	Analyzed  10/17/24 07:16  Analyzed  10/17/24 07:16  10/17/24 07:16  10/17/24 07:16  Analyzed  10/17/24 07:16	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8  49.8  %Recovery 95 93 n Chromatograp	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U *1 U *+ U  Qualifier	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51  Prepared 10/15/24 19:51	Analyzed  10/17/24 07:16  Analyzed  10/17/24 07:16  10/17/24 07:16  10/17/24 07:16  Analyzed  10/17/24 07:16	1 Dil Fac

Client Sample ID: S-2 (1.5') Lab Sample ID: 880-49854-6 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				10/16/24 09:36	10/16/24 13:51	1
1,4-Difluorobenzene (Surr)	109		70 - 130				10/16/24 09:36	10/16/24 13:51	1

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5') Lab Sample ID: 880-49854-6

Matrix: Solid

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/16/24 13:51	1
_									

Method: SW846 8015 NM - Diesel R	Range Organi	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/24 07:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		10/15/24 19:51	10/17/24 07:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *+	49.9		mg/Kg		10/15/24 19:51	10/17/24 07:30	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:51	10/17/24 07:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/15/24 19:51	10/17/24 07:30	1
o-Terphenyl	91		70 - 130				10/15/24 19:51	10/17/24 07:30	1

Method: EPA 300.0 - Anions, Ion CI	nromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			10/16/24 16:33	1

Client Sample ID: S-2 (2') Lab Sample ID: 880-49854-7 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/16/24 09:36	10/16/24 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				10/16/24 09:36	10/16/24 14:12	1
			70 - 130				10/16/24 09:36	10/16/24 14:12	1
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	10/16/24 09:36 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00397	<b>Qualifier</b> U	RL 0.00397	MDL	Unit mg/Kg	<u>D</u>			•
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <	<b>Qualifier</b> U	RL 0.00397			<u>D</u>	Prepared	Analyzed 10/16/24 14:12	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <	Qualifier U ics (DRO) (Qualifier	RL 0.00397		mg/Kg			Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00397 sel Range Organ Result <49.7	Qualifier U ics (DRO) ( Qualifier U	RL 0.00397  GC) RL 49.7		mg/Kg		Prepared	Analyzed 10/16/24 14:12 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00397 sel Range Organ Result <49.7	Qualifier U ics (DRO) ( Qualifier U	RL 0.00397  GC) RL 49.7	MDL	mg/Kg		Prepared	Analyzed 10/16/24 14:12 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00397 sel Range Organ Result <49.7 iesel Range Orga Result	Qualifier U ics (DRO) ( Qualifier U nics (DRO)	RL 0.00397  GC)  RL 49.7	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/16/24 14:12  Analyzed 10/17/24 07:45	Dil Fac  Dil Fac

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Lab Sample ID: 880-49854-7

SDG: Lea County, New Mexico

Matrix: Solid

Job ID: 880-49854-1

Client Sample ID: S-2 (2')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/15/24 19:51	10/17/24 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				10/15/24 19:51	10/17/24 07:45	1
o-Terphenyl	97		70 - 130				10/15/24 19:51	10/17/24 07:45	1

Method: EPA 300.0 - Anions, Ion Chro	matograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	r	mg/Kg			10/16/24 16:39	1

Client Sample ID: S-3 (0-1') Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-8

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				10/16/24 09:36	10/16/24 14:32	1
1,4-Difluorobenzene (Surr)	108		70 - 130				10/16/24 09:36	10/16/24 14:32	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/16/24 14:32	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) ((	3C)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/24 07:59	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0		mg/Kg		10/15/24 19:51	10/17/24 07:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *+	50.0		mg/Kg		10/15/24 19:51	10/17/24 07:59	1
C10-C28)	-50.0		50.0		0.4		10/15/04 10 51	10/17/04 07 50	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 07:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				10/15/24 19:51	10/17/24 07:59	1
o-Terphenyl	92		70 - 130				10/15/24 19:51	10/17/24 07:59	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	<b>e</b>						
Wethou. LFA 300.0 - Amons, for									
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-9

Client Sample ID: S-3 (1.5') Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Matrix: Solid

Job ID: 880-49854-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 14:53	
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 14:53	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 14:53	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 14:53	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 14:53	•
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 14:53	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130				10/16/24 09:36	10/16/24 14:53	
1,4-Difluorobenzene (Surr)	106		70 - 130				10/16/24 09:36	10/16/24 14:53	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/16/24 14:53	
					mg/rtg			10/10/21 11:00	
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) ( Qualifier	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ	ics (DRO) ( Qualifier	GC)	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <a href="#">&lt;49.8</a>	ics (DRO) ( Qualifier	GC)  RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <a href="#">&lt;49.8</a> sel Range Organ	ics (DRO) ( Qualifier	GC)  RL 49.8		Unit	D	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <a href="#">&lt;49.8</a> sel Range Organ	ics (DRO) ( Qualifier U unics (DRO) Qualifier	GC)  RL 49.8		Unit mg/Kg		<u> </u>	Analyzed 10/17/24 08:15	
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <a href="#">&lt;49.8</a> sel Range Orga Result	ics (DRO) ( Qualifier U enics (DRO) Qualifier U *1	GC)  RL 49.8  (GC) RL		Unit mg/Kg Unit		Prepared	Analyzed 10/17/24 08:15 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.8 sel Range Orga Result <49.8	ics (DRO) ( Qualifier U  nnics (DRO) Qualifier U *1 U *+	GC)  RL 49.8  (GC)  RL 49.8		Unit mg/Kg  Unit mg/Kg		Prepared 10/15/24 19:51	Analyzed  10/17/24 08:15  Analyzed  10/17/24 08:15	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8	ics (DRO) ( Qualifier U  nnics (DRO) Qualifier U*1 U*+	GC)  RL 49.8  (GC)  RL 49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51	Analyzed 10/17/24 08:15  Analyzed 10/17/24 08:15 10/17/24 08:15	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	el Range Organ Result 49.8 sel Range Orga Result 49.8 49.8 49.8 49.8	ics (DRO) ( Qualifier U  nnics (DRO) Qualifier U*1 U*+	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51	Analyzed 10/17/24 08:15  Analyzed 10/17/24 08:15 10/17/24 08:15 10/17/24 08:15	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8 <49.8 %Recovery	ics (DRO) ( Qualifier U  nnics (DRO) Qualifier U*1 U*+	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51 Prepared	Analyzed 10/17/24 08:15  Analyzed 10/17/24 08:15 10/17/24 08:15 10/17/24 08:15 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Range Organ   Result   < 49.8	ics (DRO) ( Qualifier U  unics (DRO) Qualifier U *1 U *+ U Qualifier	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  49.8  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51  Prepared 10/15/24 19:51	Analyzed 10/17/24 08:15  Analyzed 10/17/24 08:15 10/17/24 08:15 10/17/24 08:15  Analyzed 10/17/24 08:15	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8  49.8  49.8  MRecovery 1000 97  a Chromatograp	ics (DRO) ( Qualifier U  unics (DRO) Qualifier U *1 U *+ U Qualifier	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  49.8  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51  Prepared 10/15/24 19:51	Analyzed 10/17/24 08:15  Analyzed 10/17/24 08:15 10/17/24 08:15 10/17/24 08:15  Analyzed 10/17/24 08:15	Dil Fac

Client Sample ID: S-3 (2') Lab Sample ID: 880-49854-10 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
Toluene	0.00216		0.00199		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				10/16/24 09:36	10/16/24 15:13	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/16/24 09:36	10/16/24 15:13	1

**Eurofins Midland** 

Released to Imaging: 4/9/2025 10:23:24 AM

Client: Carmona Resources

Job ID: 880-49854-1 Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-10

Client Sample ID: S-3 (2')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Matrix: Solid

Ar	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
To	otal BTEX	<0.00398	U	0.00398		mg/Kg			10/16/24 15:13	1
L	athod: SW846 8015 NM - Dies	al Pango Organ	ice (DRO) (G	2C)						
M	ethod: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (G	GC)						
	ethod: SW846 8015 NM - Diese		ics (DRO) (G Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 19:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 19:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				10/15/24 19:57	10/16/24 19:23	1
o-Terphenyl	90		70 - 130				10/15/24 19:57	10/16/24 19:23	1

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2880		49.7		mg/Kg			10/16/24 16:58	5

Client Sample ID: S-3 (3') Lab Sample ID: 880-49854-11 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				10/16/24 09:36	10/16/24 17:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130				10/16/24 09:36	10/16/24 17:03	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Method: TAL SOP Total BTEX Analyte		culation Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 17:03	Dil Fac
Analyte	<0.00398	<b>Qualifier</b> U	0.00398	MDL		<u>D</u>	Prepared		
Analyte Total BTEX	Result <0.00398 esel Range Organ	<b>Qualifier</b> U	0.00398	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total BTEX  Method: SW846 8015 NM - Die	Result <0.00398 esel Range Organ	Qualifier U ics (DRO) ( Qualifier	0.00398 GC)		mg/Kg	_ =		10/16/24 17:03	1
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	Result <a href="#">&lt;0.00398</a> <a href="#">esel Range Organ</a> <a href="#">Result <a href="#">&lt;49.9</a></a>	Qualifier U ics (DRO) ( Qualifier U	0.00398  GC)  RL  49.9		mg/Kg	_ =		10/16/24 17:03  Analyzed	1
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	Result <0.00398  esel Range Organ Result <49.9  Diesel Range Orga	Qualifier U ics (DRO) ( Qualifier U	0.00398  GC)  RL  49.9	MDL	mg/Kg	_ =		10/16/24 17:03  Analyzed	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	Result <0.00398  esel Range Organ Result <49.9  Diesel Range Orga	Qualifier U ics (DRO) ( Qualifier U inics (DRO) Qualifier	0.00398  GC)  RL 49.9  (GC)	MDL	mg/Kg  Unit mg/Kg	<u></u>	Prepared	10/16/24 17:03  Analyzed  10/16/24 20:08	1
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	esel Range Organ Result <49.9  Diesel Range Orga Result Result Result Result Result Result Result	Qualifier U ics (DRO) ( Qualifier U inics (DRO) Qualifier U	0.00398  GC)  RL 49.9  (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u></u>	Prepared Prepared	10/16/24 17:03  Analyzed  10/16/24 20:08  Analyzed	Dil Fac Dil Fac

Project/Site: Dogie Draw Ender Wiggings

Client: Carmona Resources

Job ID: 880-49854-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-11

Matrix: Solid

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Client Sample ID: S-3 (3')

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:57	10/16/24 20:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				10/15/24 19:57	10/16/24 20:08	1
o-Terphenyl	91		70 - 130				10/15/24 19:57	10/16/24 20:08	1

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.5		9.96		mg/Kg			10/16/24 17:04	1

Client Sample ID: S-4 (0-1') Lab Sample ID: 880-49854-12 Date Collected: 10/15/24 00:00 Matrix: Solid

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 17:24	
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 17:24	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 17:24	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 17:24	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 17:24	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 17:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130				10/16/24 09:36	10/16/24 17:24	
1,4-Difluorobenzene (Surr)	107		70 - 130				10/16/24 09:36	10/16/24 17:24	
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/16/24 17:24	
mothod: Offorto Colo Itim Diooc	i italigo olgan	י) (טאום) פטו	GC)						
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 20:23	Dil Fa
Analyte  Total TPH	Result   <50.0	Qualifier U	<b>RL</b> 50.0	MDL		<u>D</u>	Prepared		Dil Fa
Analyte	Result < 50.0 sel Range Orga	Qualifier U	<b>RL</b> 50.0	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - Dies	Result < 50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 50.0		mg/Kg			10/16/24 20:23	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL 50.0		mg/Kg		Prepared	10/16/24 20:23  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0  sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg  Unit mg/Kg		Prepared 10/15/24 19:57	10/16/24 20:23  Analyzed 10/16/24 20:23	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57	10/16/24 20:23  Analyzed 10/16/24 20:23 10/16/24 20:23	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0  (GC)  RL 50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57	Analyzed 10/16/24 20:23  10/16/24 20:23  10/16/24 20:23  10/16/24 20:23	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U	RL   50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57 10/15/24 19:57 Prepared	Analyzed 10/16/24 20:23  Analyzed 10/16/24 20:23 10/16/24 20:23 Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57 10/15/24 19:57  Prepared 10/15/24 19:57	Analyzed 10/16/24 20:23  Analyzed 10/16/24 20:23  10/16/24 20:23  Analyzed 10/16/24 20:23	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57 10/15/24 19:57  Prepared 10/15/24 19:57	Analyzed 10/16/24 20:23  Analyzed 10/16/24 20:23  10/16/24 20:23  Analyzed 10/16/24 20:23	Dil Fa

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

Job ID: 880-49854-1

Lab Sample ID: 880-49854-13

Matrix: Solid

Client Sample ID: S-4 (1.5')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				10/16/24 09:36	10/16/24 17:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/16/24 09:36	10/16/24 17:44	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	П	0.00402		mg/Kg			10/16/24 17:44	

Method: SW846 8015 NM - Diesel R	Range Organi	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/16/24 20:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 20:38	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 20:38	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				10/15/24 19:57	10/16/24 20:38	
o-Terphenyl	90		70 - 130				10/15/24 19:57	10/16/24 20:38	1

Wethod: EPA 300.0 - Anions, ion Ci	nromatograpny - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2530	49.5	mg/Kg			10/17/24 15:18	5

Client Sample ID: S-4 (2') Lab Sample ID: 880-49854-14 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110	-	70 - 130				10/16/24 09:36	10/16/24 18:05	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/16/24 09:36	10/16/24 18:05	1

**Eurofins Midland** 

Date Received: 10/15/24 16:50

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-14 Client Sample ID: S-4 (2')

Matrix: Solid

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/16/24 18:05	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/16/24 20:53	1
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 20:53	1
Analyte		Qualifier	RL _	MDL	Unit	D	Prepared	Analyzed	Dil Fac
(GRO)-C6-C10	-00.0	Ü	00.0		mg/rtg		10/10/21 10:07	10/10/21/20:00	
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 20:53	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				10/15/24 19:57	10/16/24 20:53	1

Method: EPA 300.0 - Anions, Ion Ch	romatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710	49.6	mg/Kg			10/17/24 15:23	5

Client Sample ID: S-4 (3') Lab Sample ID: 880-49854-15 **Matrix: Solid** 

Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:25	
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:25	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:25	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 18:25	,
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:36	10/16/24 18:25	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:36	10/16/24 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				10/16/24 09:36	10/16/24 18:25	1
	100		<b>70</b> 100				10/16/24 09:36	10/16/24 18:25	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte			70 <sub>-</sub> 130	MDL	Unit	D			
Method: TAL SOP Total BTEX	( - Total BTEX Cald								
	( - Total BTEX Cald	Qualifier	RL 0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 18:25	Dil Fac
Method: TAL SOP Total BTEX Analyte	( - Total BTEX Cald Result <0.00398	<b>Qualifier</b> U	RL 0.00398	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	( - Total BTEX Calc Result <0.00398 esel Range Organ	<b>Qualifier</b> U	RL 0.00398	MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di	( - Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg	_ =	Prepared	Analyzed 10/16/24 18:25	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Di Analyte	C - Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) ( Qualifier U	RL 0.00398  GC)  RL 49.9		mg/Kg	_ =	Prepared	Analyzed 10/16/24 18:25 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Di Analyte Total TPH	( - Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U ics (DRO) ( Qualifier U	RL 0.00398  GC)  RL 49.9		mg/Kg  Unit mg/Kg	_ =	Prepared	Analyzed 10/16/24 18:25 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Di Analyte Total TPH  Method: SW846 8015B NM - I	( - Total BTEX Calc Result <0.00398 esel Range Organ Result <49.9	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00398  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 10/16/24 18:25  Analyzed 10/16/24 21:08	Dil Fac

Job ID: 880-49854-1

Client: Carmona Resources Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Client Sample ID: S-4 (3')

Lab Sample ID: 880-49854-15 Date Collected: 10/15/24 00:00 Matrix: Solid

Date Received: 10/15/24 16:50

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continu	ıed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:57	10/16/24 21:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				10/15/24 19:57	10/16/24 21:08	1
o-Terphenyl	91		70 - 130				10/15/24 19:57	10/16/24 21:08	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250	50.5	mg/Kg			10/17/24 15:29	5

Client Sample ID: S-4 (4') Lab Sample ID: 880-49854-16

Date Collected: 10/15/24 00:00 **Matrix: Solid** Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 18:46	-
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 18:46	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 18:46	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 18:46	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 18:46	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:36	10/16/24 18:46	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	120		70 - 130				10/16/24 09:36	10/16/24 18:46	
1,4-Difluorobenzene (Surr)	116		70 - 130				10/16/24 09:36	10/16/24 18:46	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/16/24 18:46	
Method: SW846 8015 NM - Diese		, , ,	•			_			D.: E
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			10/16/24 21:23	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 21:23	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 21:23	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:57	10/16/24 21:23	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	82		70 - 130				10/15/24 19:57	10/16/24 21:23	
o-Terphenyl	90		70 - 130				10/15/24 19:57	10/16/24 21:23	
-									
Method: EPA 300.0 - Anions, Ion	Chromatograp	ıny - Solubi	е						
Method: EPA 300.0 - Anions, Ion Analyte		Qualifier	e RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-17

Client Sample ID: S-5 (0-1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Matrix: Solid

Job ID: 880-49854-1

Analyte	Organic Comp Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				10/16/24 09:36	10/16/24 19:06	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/16/24 09:36	10/16/24 19:06	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/16/24 19:06	1
Method: SW846 8015 NM - Diese	ei Range Organ	ics (DRO) ((	GC)						
			•	MDI	Unit	D	Prenared	Analyzed	Dil Fac
Analyte		Qualifier	SC)  RL  50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 21:37	
Analyte Total TPH	Result   <50.0	Qualifier U	<b>RL</b> 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die:	Result <50.0	Qualifier Unics (DRO)	RL 50.0		mg/Kg			10/16/24 21:37	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result <50.0  sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg	<u>D</u>	Prepared	10/16/24 21:37  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg			10/16/24 21:37	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL 50.0		mg/Kg		Prepared	10/16/24 21:37  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg  Unit mg/Kg		Prepared 10/15/24 19:57	10/16/24 21:37  Analyzed  10/16/24 21:37	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0  sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg  Unit mg/Kg		Prepared 10/15/24 19:57	10/16/24 21:37  Analyzed  10/16/24 21:37	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57	10/16/24 21:37  Analyzed 10/16/24 21:37  10/16/24 21:37	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0  (GC)  RL 50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57 10/15/24 19:57	10/16/24 21:37  Analyzed 10/16/24 21:37 10/16/24 21:37 10/16/24 21:37	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U  nics (DRO) Qualifier U  U	RL   50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57 10/15/24 19:57 Prepared	10/16/24 21:37  Analyzed 10/16/24 21:37 10/16/24 21:37 10/16/24 21:37  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57 10/15/24 19:57  Prepared 10/15/24 19:57	10/16/24 21:37  Analyzed 10/16/24 21:37  10/16/24 21:37  10/16/24 21:37  Analyzed 10/16/24 21:37	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:57 10/15/24 19:57 10/15/24 19:57  Prepared 10/15/24 19:57	10/16/24 21:37  Analyzed 10/16/24 21:37  10/16/24 21:37  10/16/24 21:37  Analyzed 10/16/24 21:37	Dil Fac

Client Sample ID: S-5 (1.5') Lab Sample ID: 880-49854-18 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				10/16/24 09:36	10/16/24 19:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130				10/16/24 09:36	10/16/24 19:27	1

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

Client Sample ID: S-5 (1.5')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-18

Matrix: Solid

10/17/24 15:56

**Matrix: Solid** 

s (DRO) (C	RL	MDL	mg/Kg			10/16/24 19:27	1
ualifier	RL	MDL	Unit	_			
		MDL	Unit	_			
1			Oilit	D	Prepared	Analyzed	Dil Fac
	50.0		mg/Kg			10/16/24 21:52	1
cs (DRO)	(GC)						
ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	50.0		mg/Kg		10/15/24 19:57	10/16/24 21:52	1
1	50.0		mg/Kg		10/15/24 19:57	10/16/24 21:52	
l	50.0		mg/Kg		10/15/24 19:57	10/16/24 21:52	1
ualifier	Limits				Prepared	Analyzed	Dil Fa
	70 - 130				10/15/24 19:57	10/16/24 21:52	
	70 - 130				10/15/24 19:57	10/16/24 21:52	•
1	ualifier	50.0 50.0 50.0 <i>ualifier Limits</i> 70 - 130	ualifier         RL         MDL           50.0         50.0           50.0         50.0           ualifier         Limits           70 - 130	RL         MDL         Unit           50.0         mg/Kg           50.0         mg/Kg           50.0         mg/Kg           4         mg/Kg           4         mg/Kg	RL         MDL         Unit         D           50.0         mg/Kg           50.0         mg/Kg           50.0         mg/Kg           ualifier         Limits           70 - 130	RL         MDL         Unit         D         Prepared           50.0         mg/Kg         10/15/24 19:57           50.0         mg/Kg         10/15/24 19:57           50.0         mg/Kg         10/15/24 19:57           ualifier         Limits         Prepared           70 - 130         10/15/24 19:57	walifier         RL         MDL mit         D mg/Kg         Prepared 10/15/24 19:57         Analyzed 10/16/24 21:52           50.0         mg/Kg         10/15/24 19:57         10/16/24 21:52           50.0         mg/Kg         10/15/24 19:57         10/16/24 21:52           walifier         Limits         Prepared         Analyzed           70 - 130         10/15/24 19:57         10/16/24 21:52

9.96 Client Sample ID: S-5 (2') Lab Sample ID: 880-49854-19

mg/Kg

13.8

Date Collected: 10/15/24 00:00

Chloride

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:47	
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:47	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:47	,
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 19:47	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:36	10/16/24 19:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:36	10/16/24 19:47	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		70 - 130				10/16/24 09:36	10/16/24 19:47	
	440		70 - 130				10/16/24 09:36	10/16/24 19:47	1
Method: TAL SOP Total BTEX				MDI	llnit	ь			
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX	- Total BTEX Cald	Qualifier	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 19:47	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00401	<b>Qualifier</b> U	RL 0.00401	MDL		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00401 essel Range Organ	<b>Qualifier</b> U	RL 0.00401			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401 essel Range Organ	Qualifier U ics (DRO) ( Qualifier	RL 0.00401		mg/Kg		Prepared	Analyzed 10/16/24 19:47	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.7	Qualifier U ics (DRO) ( Qualifier U	RL 0.00401 GC) RL 49.7		mg/Kg		Prepared	Analyzed 10/16/24 19:47 Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.7	Qualifier U ics (DRO) ( Qualifier U	RL 0.00401 GC) RL 49.7	MDL	mg/Kg		Prepared	Analyzed 10/16/24 19:47 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - Die Method: SW846 8015B NM - Die	- Total BTEX Calc Result <0.00401 esel Range Organ Result <49.7	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00401  GC)  RL 49.7	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/16/24 19:47  Analyzed 10/16/24 22:07	Dil Fa

Client: Carmona Resources

Date Received: 10/15/24 16:50

Job ID: 880-49854-1

Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Client Sample ID: S-5 (2')
Date Collected: 10/15/24 00:00

Lab Sample ID: 880-49854-19

Matrix: Solid

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO	(GC) (Continu	ıed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/15/24 19:57	10/16/24 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				10/15/24 19:57	10/16/24 22:07	1
o-Terphenyl	88		70 - 130				10/15/24 19:57	10/16/24 22:07	1

Method: EPA 300.0 - Anions, Ion C	Chromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.0	9.92	mg/Kg			10/17/24 16:01	1

Client Sample ID: S-5 (3')

Date Collected: 10/15/24 00:00

Lab Sample ID: 880-49854-20

Matrix: Solid

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 20:08	-
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 20:08	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 20:08	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 20:08	
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:36	10/16/24 20:08	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:36	10/16/24 20:08	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130				10/16/24 09:36	10/16/24 20:08	
1,4-Difluorobenzene (Surr)	108		70 - 130				10/16/24 09:36	10/16/24 20:08	1
Method: TAL SOP Total BTEX -									
Analyte		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 20:08	Dil Fa
Analyte Total BTEX  Method: SW846 8015 NM - Dies	Result  <0.00402 sel Range Organ	Qualifier U	0.00402 GC)		mg/Kg		<u> </u>	10/16/24 20:08	
Analyte Total BTEX  Method: SW846 8015 NM - Dies	Result  <0.00402 sel Range Organ	Qualifier U	0.00402		mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	Result  <0.00402 sel Range Organ	Qualifier U ics (DRO) ( Qualifier	0.00402 GC)		mg/Kg		<u> </u>	10/16/24 20:08	
Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	Result <0.00402 sel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	0.00402  GC)  RL  49.8		mg/Kg		<u> </u>	10/16/24 20:08  Analyzed	
Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Dies	Result <0.00402 sel Range Organ Result <49.8 sesel Range Orga	Qualifier U ics (DRO) ( Qualifier U	0.00402  GC)  RL  49.8	MDL	mg/Kg		<u> </u>	10/16/24 20:08  Analyzed	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <0.00402 sel Range Organ Result <49.8 sesel Range Orga	Qualifier U ics (DRO) ( Qualifier U nics (DRO) Qualifier	0.00402  GC)  RL 49.8  (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared	10/16/24 20:08  Analyzed  10/16/24 22:36	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <0.00402 sel Range Organ Result <49.8 sesel Range Orga Result	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	0.00402  GC)  RL 49.8  (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	10/16/24 20:08  Analyzed  10/16/24 22:36  Analyzed	Dil Fac  Dil Fac  1  Dil Fac  1  1  1

Analyzed

10/16/24 22:36

10/16/24 22:36

Analyzed

10/17/24 16:06

Prepared

10/15/24 19:57

10/15/24 19:57

Prepared

Limits

70 - 130

70 - 130

RL

10.1

MDL Unit

mg/Kg

Dil Fac

Dil Fac

%Recovery

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

81

87

<10.1 U

Result Qualifier

Qualifier

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

## **Surrogate Summary**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
l ah Camula ID	Client Comple ID	(70-130)	(70-130)	
<b>Lab Sample ID</b> 880-49854-1	S-1 (0-1')	301 S1+	79	. — — — — — — —
880-49854-1 MS	S-1 (0-1')	110	98	
880-49854-1 MSD	S-1 (0-1')	103	101	
880-49854-2	S-1 (0-1)	100	100	
880-49854-3	S-1 (1.5)	122	108	
880-49854-4	S-1 (2')	109	104	
880-49854-5	S-2 (0-1')	116	104	
880-49854-6	S-2 (0-1)	119	104	
880-49854-7	S-2 (1.5)	111	109	
880-49854-8	S-3 (0-1')	115	109	
	` '			
880-49854-9	S-3 (1.5')	107	106	
880-49854-10	S-3 (2')	106	103	
880-49854-11	S-3 (3')	87	100	
880-49854-12	S-4 (0-1')	109	107	
880-49854-13	S-4 (1.5')	109	106	
880-49854-14	S-4 (2')	110	106	
880-49854-15	S-4 (3')	115	108	
880-49854-16	S-4 (4')	120	116	
880-49854-17	S-5 (0-1')	120	113	
880-49854-18	S-5 (1.5')	110	108	
880-49854-19	S-5 (2')	116	112	
880-49854-20	S-5 (3')	106	108	
LCS 880-93445/1-A	Lab Control Sample	103	98	
LCSD 880-93445/2-A	Lab Control Sample Dup	105	101	
MB 880-93445/5-A	Method Blank	150 S1+	100	

**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

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49802-A-2-D MS	Matrix Spike	129	110
880-49802-A-2-E MSD	Matrix Spike Duplicate	99	85
880-49854-1	S-1 (0-1')	101	97
880-49854-2	S-1 (1.5')	97	94
880-49854-3	S-1 (2')	97	95
880-49854-4	S-1 (3')	101	99
880-49854-5	S-2 (0-1')	95	93
880-49854-6	S-2 (1.5')	96	91
880-49854-7	S-2 (2')	102	97
880-49854-8	S-3 (0-1')	94	92
880-49854-9	S-3 (1.5')	100	97
880-49854-10	S-3 (2')	82	90
880-49854-10 MS	S-3 (2')	101	96
880-49854-10 MSD	S-3 (2')	101	96

## **Surrogate Summary**

Client: Carmona Resources Job ID: 880-49854-1 Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-49854-11	S-3 (3')	82	91	
0-49854-12	S-4 (0-1')	80	86	
0-49854-13	S-4 (1.5')	84	90	
0-49854-14	S-4 (2')	81	90	
0-49854-15	S-4 (3')	82	91	
80-49854-16	S-4 (4')	82	90	
30-49854-17	S-5 (0-1')	91	100	
80-49854-18	S-5 (1.5')	80	87	
30-49854-19	S-5 (2')	81	88	
0-49854-20	S-5 (3')	81	87	
S 880-93419/2-A	Lab Control Sample	107	145 S1+	
CS 880-93420/2-A	Lab Control Sample	113	107	
CSD 880-93419/3-A	Lab Control Sample Dup	132 S1+	179 S1+	
CSD 880-93420/3-A	Lab Control Sample Dup	111	105	
B 880-93419/1-A	Method Blank	90	90	
	Method Blank	69 S1-	78	

OTPH = o-Terphenyl

## **QC Sample Results**

Client: Carmona Resources Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-93445/5-A

**Matrix: Solid** 

Analysis Batch: 93435

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 93445

MB	MB				
Result	Qualifier	RL	MDL	Unit	D
00200	U	0.00200		mg/Kg	

Analyte	Resuit	Qualifier	KL	WIDE OHIL	U	Frepareu	Allalyzeu	DII Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/16/24 09:36	10/16/24 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/16/24 09:36	10/16/24 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/16/24 09:36	10/16/24 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/16/24 09:36	10/16/24 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/16/24 09:36	10/16/24 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/16/24 09:36	10/16/24 11:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	10/16/24 09:36	10/16/24 11:41	1
1.4-Difluorobenzene (Surr)	100		70 - 130	10/16/24 09:36	10/16/24 11:41	1

Lab Sample ID: LCS 880-93445/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** 

**Analysis Batch: 93435** 

Prep Type: Total/NA Prep Batch: 93445

	<b>Spike</b>	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	
Toluene	0.100	0.1013		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	0.200	0.2358		mg/Kg		118	70 - 130	
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130	

Spike

0.100

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: LCSD 880-93445/2-A

**Matrix: Solid** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

**Analysis Batch: 93435** 

Client Sample ID: Lab Control Sample Dup

117

%Rec

70 - 130

Prep Type: Total/NA Prep Batch: 93445

RPD

35

Added Result Qualifier Unit %Rec Limits Limit 0.100 0.1022 mg/Kg 102 70 - 130 3 35 0.100 0.1043 mg/Kg 104 70 - 130 3 35 0.100 0.1077 mg/Kg 108 70 - 130 3 35 0.200 0.2071 mg/Kg 104 70 - 130 13 35

mg/Kg

LCSD LCSD

0.1165

LCSD LCSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: 880-49854-1 MS

**Matrix: Solid** 

Analysis Batch: 93435

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

Prep Type: Total/NA

Prep Batch: 93445

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits <0.00202 U Benzene 0.100 0.09975 mg/Kg 100 70 - 130 Toluene <0.00202 U 0.100 0.1028 mg/Kg 103 70 - 130

## QC Sample Results

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49854-1 MS

Lab Sample ID: 880-49854-1 MSD

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 93435

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

Prep Type: Total/NA Prep Batch: 93445

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.00455		0.100	0.1000		mg/Kg		95	70 - 130	 
m-Xylene & p-Xylene	0.0114		0.200	0.2144		mg/Kg		101	70 - 130	
o-Xylene	0.00426		0.100	0.1195		mg/Kg		115	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Prep Type: Total/NA

Prep Batch: 93445

**Analysis Batch: 93435** Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00202 U 0.08434 mg/Kg 84 70 - 130 17 35 <0.00202 0.07871 79 Toluene 0.100 mg/Kg 70 - 130 27 35 Ethylbenzene 0.00455 0.100 0.08903 mg/Kg 84 70 - 130 12 35 0.0114 0.200 0.1918 70 - 130 m-Xylene & p-Xylene mg/Kg 90 11 35 0.100 0.00426 0.1016 97 70 - 130 o-Xylene mg/Kg 16

MSD MSD

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

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

Lab Sample ID: MB 880-93419/1-A

**Matrix: Solid** 

Analysis Batch: 93440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 93419

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 10/15/24 19:51 10/17/24 01:53 <50.0 U mg/Kg (GRO)-C6-C10 50.0 10/15/24 19:51 10/17/24 01:53 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 10/15/24 19:51 10/17/24 01:53 mg/Kg

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/15/24 19:5	1 10/17/24 01:53	1
o-Terphenyl	90		70 - 130	10/15/24 19:5	1 10/17/24 01:53	1

Lab Sample ID: LCS 880-93419/2-A

**Matrix: Solid** 

Analysis Batch: 93440

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 93419

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	924.2		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1181		mg/Kg		118	70 - 130	
C10-C28)								

Client: Carmona Resources

Job ID: 880-49854-1 Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-93419/2-A

**Matrix: Solid** 

Analysis Batch: 93440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 93419

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 o-Terphenyl 145 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 93419

Lab Sample ID: LCSD 880-93419/3-A **Matrix: Solid** 

Lab Sample ID: 880-49802-A-2-D MS

Lab Sample ID: 880-49802-A-2-E MSD

Analysis Batch: 93440

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1135	*1	mg/Kg		114	70 - 130	21	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1443	*+	mg/Kg		144	70 - 130	20	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	132	S1+	70 - 130			
o-Terphenyl	179	S1+	70 - 130			

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 93419

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U \*1 996 929.9 mg/Kg 93 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U\*+ F2 996 911.1 mg/Kg 91 70 - 130

C10-C28)

Matrix: Solid

**Analysis Batch: 93440** 

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	110		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 93419

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U \*1 996 761.6 76 mg/Kg 70 - 130 20 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U\*+ F2 996 703.8 F2 mg/Kg 70 - 130 20

C10-C28)

**Matrix: Solid** 

Analysis Batch: 93440

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	85		70 - 130

## QC Sample Results

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Job ID: 880-49854-1

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

Lab Sample ID: MB 880-93420/1-A

Analysis Batch: 93443

**Matrix: Solid** 

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

Prep Batch: 93420

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 18:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 18:39	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:57	10/16/24 18:39	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				10/15/24 19:57	10/16/24 18:39	1
o-Terphenyl	78		70 - 130				10/15/24 19:57	10/16/24 18:39	1

Lab Sample ID: LCS 880-93420/2-A

**Matrix: Solid** 

**Analysis Batch: 93443** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 93420

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 936.0 Gasoline Range Organics 1000 94 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 962.2 mg/Kg 96 70 - 130

C10-C28)

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

Lab Sample ID: LCSD 880-93420/3-A

**Matrix: Solid** 

**Analysis Batch: 93443** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 93420

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	923.8		mg/Kg		92	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	934.1		mg/Kg		93	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 880-49854-10 MS

**Matrix: Solid** 

Analysis Batch: 93443

Client Sample ID: S-3 (2')

Prep Type: Total/NA

Prep Batch: 93420

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	737.3		mg/Kg		74	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	996	732.6		mg/Kg		74	70 - 130	

Limits

70 - 130

70 - 130

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

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

MS MS

%Recovery Qualifier

101

Lab Sample ID: 880-49854-10 MS

**Matrix: Solid** 

Surrogate

1-Chlorooctane

**Matrix: Solid** 

Analysis Batch: 93443

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

Prep Batch: 93420

o-Terphenyl 96

Lab Sample ID: 880-49854-10 MSD

**Analysis Batch: 93443** 

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

Client Sample ID: Method Blank

Analyzed

10/16/24 13:56

Client Sample ID: Lab Control Sample

Prep Batch: 93420

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <50.0 U 996 717.3 72 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 996 74 732.4 mg/Kg 70 - 1300 20

C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 101 96 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93459/1-A

**Matrix: Solid** 

Matrix: Solid

Analyte

**Analysis Batch: 93474** 

**Prep Type: Soluble** 

D

Prepared

Chloride

Lab Sample ID: LCS 880-93459/2-A

**Analysis Batch: 93474** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 245.8 mg/Kg 98 90 - 110

мв мв

<10.0 U

Result Qualifier

Lab Sample ID: LCSD 880-93459/3-A

**Matrix: Solid** 

**Analysis Batch: 93474** 

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 246.0 98 90 - 110 20 mg/Kg

RL

10.0

MDL Unit

mg/Kg

Lab Sample ID: 880-49854-2 MS

Released to Imaging: 4/9/2025 10:23:24 AM

**Matrix: Solid** 

Analyte

Chloride

**Analysis Batch: 93474** 

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits F1 2530 F1 5080 7925 mg/Kg 113 90 - 110

**Eurofins Midland** 

Dil Fac

**Prep Type: Soluble** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

Client Sample ID: S-1 (1.5')

**Prep Type: Soluble** 

## QC Sample Results

Client: Carmona Resources

Job ID: 880-49854-1 Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-49854-2 MSD

**Matrix: Solid** 

Analysis Batch: 93474

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits RPD Limit Chloride 5080 F1 2530 7935 F1 mg/Kg 113 90 - 110

Lab Sample ID: MB 880-93460/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 93477

	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg	<del></del>		10/17/24 14:46	1

Lab Sample ID: LCS 880-93460/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 93477

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	251.5		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-93460/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

Matrix: Solid

**Analysis Batch: 93477** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	251.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-49854-12 MS Client Sample ID: S-4 (0-1') **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 93477

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2180		1260	3558		ma/Ka		109	90 - 110	

Lab Sample ID: 880-49854-12 MSD Client Sample ID: S-4 (0-1') **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 93477** 

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	2180		1260	3559		ma/Ka		109	90 - 110		20	

Client: Carmona Resources

Job ID: 880-49854-1

Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

**GC VOA** 

Analysis Batch: 93435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Total/NA	Solid	8021B	93445
880-49854-2	S-1 (1.5')	Total/NA	Solid	8021B	93445
880-49854-3	S-1 (2')	Total/NA	Solid	8021B	93445
880-49854-4	S-1 (3')	Total/NA	Solid	8021B	93445
880-49854-5	S-2 (0-1')	Total/NA	Solid	8021B	93445
880-49854-6	S-2 (1.5')	Total/NA	Solid	8021B	93445
880-49854-7	S-2 (2')	Total/NA	Solid	8021B	93445
880-49854-8	S-3 (0-1')	Total/NA	Solid	8021B	93445
880-49854-9	S-3 (1.5')	Total/NA	Solid	8021B	93445
880-49854-10	S-3 (2')	Total/NA	Solid	8021B	93445
880-49854-11	S-3 (3')	Total/NA	Solid	8021B	93445
880-49854-12	S-4 (0-1')	Total/NA	Solid	8021B	93445
880-49854-13	S-4 (1.5')	Total/NA	Solid	8021B	93445
880-49854-14	S-4 (2')	Total/NA	Solid	8021B	93445
880-49854-15	S-4 (3')	Total/NA	Solid	8021B	93445
880-49854-16	S-4 (4')	Total/NA	Solid	8021B	93445
880-49854-17	S-5 (0-1')	Total/NA	Solid	8021B	93445
880-49854-18	S-5 (1.5')	Total/NA	Solid	8021B	93445
880-49854-19	S-5 (2')	Total/NA	Solid	8021B	93445
880-49854-20	S-5 (3')	Total/NA	Solid	8021B	93445
MB 880-93445/5-A	Method Blank	Total/NA	Solid	8021B	93445
LCS 880-93445/1-A	Lab Control Sample	Total/NA	Solid	8021B	93445
LCSD 880-93445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93445
880-49854-1 MS	S-1 (0-1')	Total/NA	Solid	8021B	93445
880-49854-1 MSD	S-1 (0-1')	Total/NA	Solid	8021B	93445

Prep Batch: 93445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-49854-1	S-1 (0-1')	Total/NA	Solid	5035	
880-49854-2	S-1 (1.5')	Total/NA	Solid	5035	
880-49854-3	S-1 (2')	Total/NA	Solid	5035	
880-49854-4	S-1 (3')	Total/NA	Solid	5035	
880-49854-5	S-2 (0-1')	Total/NA	Solid	5035	
880-49854-6	S-2 (1.5')	Total/NA	Solid	5035	
880-49854-7	S-2 (2')	Total/NA	Solid	5035	
880-49854-8	S-3 (0-1')	Total/NA	Solid	5035	
880-49854-9	S-3 (1.5')	Total/NA	Solid	5035	
880-49854-10	S-3 (2')	Total/NA	Solid	5035	
880-49854-11	S-3 (3')	Total/NA	Solid	5035	
880-49854-12	S-4 (0-1')	Total/NA	Solid	5035	
880-49854-13	S-4 (1.5')	Total/NA	Solid	5035	
880-49854-14	S-4 (2')	Total/NA	Solid	5035	
880-49854-15	S-4 (3')	Total/NA	Solid	5035	
880-49854-16	S-4 (4')	Total/NA	Solid	5035	
880-49854-17	S-5 (0-1')	Total/NA	Solid	5035	
880-49854-18	S-5 (1.5')	Total/NA	Solid	5035	
880-49854-19	S-5 (2')	Total/NA	Solid	5035	
880-49854-20	S-5 (3')	Total/NA	Solid	5035	
MB 880-93445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

## SDG: Lea County, New Mexico

### **GC VOA (Continued)**

### Prep Batch: 93445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1 MS	S-1 (0-1')	Total/NA	Solid	5035	
880-49854-1 MSD	S-1 (0-1')	Total/NA	Solid	5035	

#### Analysis Batch: 93552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-49854-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-3	S-1 (2')	Total/NA	Solid	Total BTEX	
880-49854-4	S-1 (3')	Total/NA	Solid	Total BTEX	
880-49854-5	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-6	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-7	S-2 (2')	Total/NA	Solid	Total BTEX	
880-49854-8	S-3 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-9	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-10	S-3 (2')	Total/NA	Solid	Total BTEX	
880-49854-11	S-3 (3')	Total/NA	Solid	Total BTEX	
880-49854-12	S-4 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-13	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-14	S-4 (2')	Total/NA	Solid	Total BTEX	
880-49854-15	S-4 (3')	Total/NA	Solid	Total BTEX	
880-49854-16	S-4 (4')	Total/NA	Solid	Total BTEX	
880-49854-17	S-5 (0-1')	Total/NA	Solid	Total BTEX	
880-49854-18	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-49854-19	S-5 (2')	Total/NA	Solid	Total BTEX	
880-49854-20	S-5 (3')	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 93419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-49854-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-49854-3	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-49854-4	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-49854-5	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-6	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-49854-7	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-49854-8	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-9	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Prep Batch: 93420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-10	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-49854-11	S-3 (3')	Total/NA	Solid	8015NM Prep	
880-49854-12	S-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-13	S-4 (1.5')	Total/NA	Solid	8015NM Prep	

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

## **GC Semi VOA (Continued)**

## Prep Batch: 93420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-14	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-49854-15	S-4 (3')	Total/NA	Solid	8015NM Prep	
880-49854-16	S-4 (4')	Total/NA	Solid	8015NM Prep	
880-49854-17	S-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-49854-18	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-49854-19	S-5 (2')	Total/NA	Solid	8015NM Prep	
880-49854-20	S-5 (3')	Total/NA	Solid	8015NM Prep	
MB 880-93420/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93420/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93420/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49854-10 MS	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-49854-10 MSD	S-3 (2')	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 93440**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Total/NA	Solid	8015B NM	93419
880-49854-2	S-1 (1.5')	Total/NA	Solid	8015B NM	93419
880-49854-3	S-1 (2')	Total/NA	Solid	8015B NM	93419
880-49854-4	S-1 (3')	Total/NA	Solid	8015B NM	93419
880-49854-5	S-2 (0-1')	Total/NA	Solid	8015B NM	93419
880-49854-6	S-2 (1.5')	Total/NA	Solid	8015B NM	93419
880-49854-7	S-2 (2')	Total/NA	Solid	8015B NM	93419
880-49854-8	S-3 (0-1')	Total/NA	Solid	8015B NM	93419
880-49854-9	S-3 (1.5')	Total/NA	Solid	8015B NM	93419
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015B NM	93419
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93419
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93419
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	93419
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	93419

#### Analysis Batch: 93443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-10	S-3 (2')	Total/NA	Solid	8015B NM	93420
880-49854-11	S-3 (3')	Total/NA	Solid	8015B NM	93420
880-49854-12	S-4 (0-1')	Total/NA	Solid	8015B NM	93420
880-49854-13	S-4 (1.5')	Total/NA	Solid	8015B NM	93420
880-49854-14	S-4 (2')	Total/NA	Solid	8015B NM	93420
880-49854-15	S-4 (3')	Total/NA	Solid	8015B NM	93420
880-49854-16	S-4 (4')	Total/NA	Solid	8015B NM	93420
880-49854-17	S-5 (0-1')	Total/NA	Solid	8015B NM	93420
880-49854-18	S-5 (1.5')	Total/NA	Solid	8015B NM	93420
880-49854-19	S-5 (2')	Total/NA	Solid	8015B NM	93420
880-49854-20	S-5 (3')	Total/NA	Solid	8015B NM	93420
MB 880-93420/1-A	Method Blank	Total/NA	Solid	8015B NM	93420
LCS 880-93420/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93420
LCSD 880-93420/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93420
880-49854-10 MS	S-3 (2')	Total/NA	Solid	8015B NM	93420
880-49854-10 MSD	S-3 (2')	Total/NA	Solid	8015B NM	93420

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Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

### GC Semi VOA

## Analysis Batch: 93564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-49854-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-49854-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-49854-3	S-1 (2')	Total/NA	Solid	8015 NM	
880-49854-4	S-1 (3')	Total/NA	Solid	8015 NM	
880-49854-5	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-49854-6	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-49854-7	S-2 (2')	Total/NA	Solid	8015 NM	
880-49854-8	S-3 (0-1')	Total/NA	Solid	8015 NM	
880-49854-9	S-3 (1.5')	Total/NA	Solid	8015 NM	
380-49854-10	S-3 (2')	Total/NA	Solid	8015 NM	
880-49854-11	S-3 (3')	Total/NA	Solid	8015 NM	
880-49854-12	S-4 (0-1')	Total/NA	Solid	8015 NM	
880-49854-13	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-49854-14	S-4 (2')	Total/NA	Solid	8015 NM	
880-49854-15	S-4 (3')	Total/NA	Solid	8015 NM	
880-49854-16	S-4 (4')	Total/NA	Solid	8015 NM	
880-49854-17	S-5 (0-1')	Total/NA	Solid	8015 NM	
880-49854-18	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-49854-19	S-5 (2')	Total/NA	Solid	8015 NM	
880-49854-20	S-5 (3')	Total/NA	Solid	8015 NM	

#### **HPLC/IC**

#### Leach Batch: 93459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Soluble	Solid	DI Leach	_
880-49854-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-49854-3	S-1 (2')	Soluble	Solid	DI Leach	
880-49854-4	S-1 (3')	Soluble	Solid	DI Leach	
880-49854-5	S-2 (0-1')	Soluble	Solid	DI Leach	
880-49854-6	S-2 (1.5')	Soluble	Solid	DI Leach	
880-49854-7	S-2 (2')	Soluble	Solid	DI Leach	
880-49854-8	S-3 (0-1')	Soluble	Solid	DI Leach	
880-49854-9	S-3 (1.5')	Soluble	Solid	DI Leach	
880-49854-10	S-3 (2')	Soluble	Solid	DI Leach	
880-49854-11	S-3 (3')	Soluble	Solid	DI Leach	
MB 880-93459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49854-2 MS	S-1 (1.5')	Soluble	Solid	DI Leach	
880-49854-2 MSD	S-1 (1.5')	Soluble	Solid	DI Leach	

#### Leach Batch: 93460

Released to Imaging: 4/9/2025 10:23:24 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-12	S-4 (0-1')	Soluble	Solid	DI Leach	
880-49854-13	S-4 (1.5')	Soluble	Solid	DI Leach	
880-49854-14	S-4 (2')	Soluble	Solid	DI Leach	
880-49854-15	S-4 (3')	Soluble	Solid	DI Leach	
880-49854-16	S-4 (4')	Soluble	Solid	DI Leach	
880-49854-17	S-5 (0-1')	Soluble	Solid	DI Leach	
880-49854-18	S-5 (1.5')	Soluble	Solid	DI Leach	

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Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

### **HPLC/IC (Continued)**

## Leach Batch: 93460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-19	S-5 (2')	Soluble	Solid	DI Leach	
880-49854-20	S-5 (3')	Soluble	Solid	DI Leach	
MB 880-93460/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93460/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93460/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49854-12 MS	S-4 (0-1')	Soluble	Solid	DI Leach	
880-49854-12 MSD	S-4 (0-1')	Soluble	Solid	DI Leach	

#### Analysis Batch: 93474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-1	S-1 (0-1')	Soluble	Solid	300.0	93459
880-49854-2	S-1 (1.5')	Soluble	Solid	300.0	93459
880-49854-3	S-1 (2')	Soluble	Solid	300.0	93459
880-49854-4	S-1 (3')	Soluble	Solid	300.0	93459
880-49854-5	S-2 (0-1')	Soluble	Solid	300.0	93459
880-49854-6	S-2 (1.5')	Soluble	Solid	300.0	93459
880-49854-7	S-2 (2')	Soluble	Solid	300.0	93459
880-49854-8	S-3 (0-1')	Soluble	Solid	300.0	93459
880-49854-9	S-3 (1.5')	Soluble	Solid	300.0	93459
880-49854-10	S-3 (2')	Soluble	Solid	300.0	93459
880-49854-11	S-3 (3')	Soluble	Solid	300.0	93459
MB 880-93459/1-A	Method Blank	Soluble	Solid	300.0	93459
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	300.0	93459
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93459
880-49854-2 MS	S-1 (1.5')	Soluble	Solid	300.0	93459
880-49854-2 MSD	S-1 (1.5')	Soluble	Solid	300.0	93459

### **Analysis Batch: 93477**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49854-12	S-4 (0-1')	Soluble	Solid	300.0	93460
880-49854-13	S-4 (1.5')	Soluble	Solid	300.0	93460
880-49854-14	S-4 (2')	Soluble	Solid	300.0	93460
880-49854-15	S-4 (3')	Soluble	Solid	300.0	93460
880-49854-16	854-16 S-4 (4')		Solid	300.0	93460
880-49854-17	S-5 (0-1')	Soluble	Solid	300.0	93460
880-49854-18	S-5 (1.5')	Soluble	Solid	300.0	93460
880-49854-19	S-5 (2')	Soluble	Solid	300.0	93460
880-49854-20	S-5 (3')	Soluble	Solid	300.0	93460
MB 880-93460/1-A	Method Blank	Soluble	Solid	300.0	93460
LCS 880-93460/2-A	Lab Control Sample	Soluble	Solid	300.0	93460
LCSD 880-93460/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93460
880-49854-12 MS	S-4 (0-1')	Soluble	Solid	300.0	93460
880-49854-12 MSD	S-4 (0-1')	Soluble	Solid	300.0	93460

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Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-1

**Matrix: Solid** 

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

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 12:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 06:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 06:18	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 15:36	CH	EET MID

Client Sample ID: S-1 (1.5')

Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-2

**Matrix: Solid** 

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 93445 10/16/24 09:36 MNR EET MID Total/NA 8021B 5 mL 93435 10/16/24 12:30 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 93552 10/16/24 12:30 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 93564 10/17/24 06:33 **EET MID** Total/NA 93419 10/15/24 19:51 EL Prep 8015NM Prep 10.02 g 10 mL EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 93440 10/17/24 06:33 TKC **EET MID** Soluble 10/16/24 11:11 Leach DI Leach 4.95 g 50 mL 93459 SA **EET MID** 

50 mL

50 mL

93474

10/16/24 15:43

10

Client Sample ID: S-1 (2')

Analysis

300.0

Soluble

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-3

СН

**Matrix: Solid** 

**EET MID** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 12:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 06:47	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 06:47	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 16:02	CH	EET MID

Client Sample ID: S-1 (3')

Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Released to Imaging: 4/9/2025 10:23:24 AM

Lab Sample	ID:	880-49854-4
		Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 13:11	AJ	EET MID

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-4

Matrix: Solid

Client Sample ID: S-1 (3') Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 16:08	CH	EET MID

Client Sample ID: S-2 (0-1') Lab Sample ID: 880-49854-5 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 13:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 16:27	CH	EET MID

Client Sample ID: S-2 (1.5') Lab Sample ID: 880-49854-6 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 13:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 16:33	CH	EET MID

Lab Sample ID: 880-49854-7 Client Sample ID: S-2 (2')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 14:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:45	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.06 g 1 uL	10 mL 1 uL	93419 93440	10/15/24 19:51 10/17/24 07:45	EL TKC	EET MID EET MID

**Eurofins Midland** 

**Matrix: Solid** 

Released to Imaging: 4/9/2025 10:23:24 AM

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

Job ID: 880-49854-1

Client Sample ID: S-2 (2')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50 Lab Sample ID: 880-49854-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 16:39	CH	EET MID

Client Sample ID: S-3 (0-1') Lab Sample ID: 880-49854-8

Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 14:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 07:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 07:59	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 16:46	CH	EET MID

Client Sample ID: S-3 (1.5') Lab Sample ID: 880-49854-9

Date Collected: 10/15/24 00:00 **Matrix: Solid** Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 14:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/17/24 08:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 08:15	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 16:52	CH	EET MID

Client Sample ID: S-3 (2') Lab Sample ID: 880-49854-10

Date Collected: 10/15/24 00:00 **Matrix: Solid** Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 15:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 19:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 19:23	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93474	10/16/24 16:58	CH	EET MID

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

Client Sample ID: S-3 (3')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Lab Sample ID: 880-49854-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 17:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 17:03	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 20:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 20:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 17:04	CH	EET MID

Client Sample ID: S-4 (0-1') Lab Sample ID: 880-49854-12 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 17:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 17:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 20:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 20:23	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:02	CH	EET MID

Client Sample ID: S-4 (1.5') Lab Sample ID: 880-49854-13

Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 17:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 20:38	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:18	CH	EET MID

Client Sample ID: S-4 (2') Lab Sample ID: 880-49854-14

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 18:05	AJ	EET MID

**Eurofins Midland** 

**Matrix: Solid** 

**Matrix: Solid** 

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Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-14

Matrix: Solid

**Matrix: Solid** 

Client Sample ID: S-4 (2') Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93564	10/16/24 20:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 20:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:23	СН	EET MID

Client Sample ID: S-4 (3') Lab Sample ID: 880-49854-15

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 93445 10/16/24 09:36 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 93435 10/16/24 18:25 MNR EET MID 1 Total/NA Total BTEX Analysis 1 93552 10/16/24 18:25 AJ **EET MID** Total/NA Analysis 8015 NM 93564 10/16/24 21:08 EET MID AJ Total/NA Prep 8015NM Prep 10.03 g 10 mL 93420 10/15/24 19:57 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 93443 10/16/24 21:08 TKC **EET MID** 1 uL Soluble Leach DI Leach 4.95 g 50 mL 93460 10/16/24 11:17 SA **EET MID** Soluble Analysis 300.0 5 50 mL 50 mL 93477 10/17/24 15:29 СН **EET MID** 

Client Sample ID: S-4 (4') Lab Sample ID: 880-49854-16 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 18:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 21:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 21:23	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93477	10/17/24 15:34	CH	EET MID

Client Sample ID: S-5 (0-1') Lab Sample ID: 880-49854-17

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 19:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 21:37	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g 1 uL	10 mL 1 uL	93420 93443	10/15/24 19:57 10/16/24 21:37	EL TKC	EET MID EET MID

**Eurofins Midland** 

**Matrix: Solid** 

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

Lab Sample ID: 880-49854-17

Client Sample ID: S-5 (0-1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	93477	10/17/24 15:50	CH	EET MID

Client Sample ID: S-5 (1.5') Lab Sample ID: 880-49854-18

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 19:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 21:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 21:52	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93477	10/17/24 15:56	CH	EET MID

Lab Sample ID: 880-49854-19 Client Sample ID: S-5 (2')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 19:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 19:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 22:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 22:07	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93477	10/17/24 16:01	CH	EET MID

Client Sample ID: S-5 (3') Lab Sample ID: 880-49854-20

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	93445	10/16/24 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93435	10/16/24 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93552	10/16/24 20:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93564	10/16/24 22:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93420	10/15/24 19:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93443	10/16/24 22:36	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93460	10/16/24 11:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93477	10/17/24 16:06	CH	EET MID

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1 SDG: Lea County, New Mexico

#### Laboratory References:

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

## **Accreditation/Certification Summary**

Client: Carmona Resources

Job ID: 880-49854-1

Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

#### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

## **Method Summary**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49854-1

SDG: Lea 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

**Eurofins Midland** 

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## **Sample Summary**

Client: Carmona Resources

880-49854-20

Project/Site: Dogie Draw Ender Wiggings

S-5 (3')

Job ID: 880-49854-1 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49854-1	S-1 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-2	S-1 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-3	S-1 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-4	S-1 (3')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-5	S-2 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-6	S-2 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-7	S-2 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-8	S-3 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-9	S-3 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-10	S-3 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-11	S-3 (3')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-12	S-4 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-13	S-4 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-14	S-4 (2')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-15	S-4 (3')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-16	S-4 (4')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-17	S-5 (0-1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-18	S-5 (1.5')	Solid	10/15/24 00:00	10/15/24 16:50
880-49854-19	S-5 (2')	Solid	10/15/24 00:00	10/15/24 16:50

Solid

10/15/24 00:00

10/15/24 16:50

A D			Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com	S-3 (2')	S-3 (1.5')	S-3 (0-1')	S-2 (2")	S-2 (1.5')	S-2 (0-1')	S-1 (3')	S-1 (2')	S-1 (1.5')	S-1 (0-1')	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	Work Order	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone:	City, State ZIP: Midlan	Address: 310 W	Company Name: Carmo	Project Manager: Conne
		Relinquishe	ts to Mike Carmon	10/15/2024	10/15/2024	10/15/2024	10/15/2024	10/15/2024	10/15/2024	10/15/2024	10/15/2024	10/15/2024	10/15/2024	on Date		Yes No N/A	Yes No NIA	Yes	Temp Blank:	200223681	CRM & DD	Lea County, New Mexico	2548	Dogie Draw Ender Wiggins		Midland, TX 79701	310 W Wall St Ste 500	Carmona Resources	Conner Moehring
		Relinquished by: (Signature)	a mcarmona@car	24	24	24	24	24	24	24	24	24	24	Time	Corrected Temperature:	Temperature Reading:	Correction Factor.	Thermometer ID:	Yes No		D	v Mexico		r Wiggins					
			monaresource	×	×	×	×	×	×	×	×	×	×	Soil	erature:	ading:	ה		) Wet Ice:			Due Date:	☑ Routine	Turn /	Email:				
			s.com, Conn	6	G	6	G	G	G	6	G	G	G	Water Comp	Ŋ	S	1,	1 A	Yes No			5 day	Rush	Turn Around	Email: swansonste@marathonoil.com	City, State ZIP:	Address:	Company Name	Bill to: (if different)
			er Moehrin		1	1	1	1	1	1		1	1	# of Cont	1	P.	Pa	iran	nete	rs			Code		marathono			e.	
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	1	Lby: (Signature)	rritt Merrit																					7	Deliverables: EDD	Reporting:Level II Level III	State of Project:	Program: UST/PST ☐PRP ☐}rownfields	
		iture)	tC@carm																						Ö	III 🗌 Leve	it	PST PR	Wo
			onaresou	-													Н	old							ADaPT 🗆			P   Brown	rk Order (
	)		rces.com											Sam	NaOH+As	Zn Acetate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	NaHSO <sub>4</sub> : NABIS	H₃PO₄: HP	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	Pres				nfields ⊟kRC	Work Order Comments
-	Ollsbe	Date/Time												Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	VaSO <sub>3</sub>	VABIS		NaC	HNO	Me	DIV	Preservative Codes	Other:	□RRP □L		_	
	5	Time												ents	SAPC	-				NaOH: Na	HNO <sub>3:</sub> HN	MeOH: Me	DI Water: H <sub>2</sub> O	odes		Level IV		_lperfund [	



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Date/Time	Received by: (Signature)	Recei	е	Date/Time					r: (Signature)	Relinquished by: (Signature)	70	
ources.com	Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com	rmonaresources.com, Clint	ıring@ca	g cmoeh	Moehring	Conner	es.com,	onaresourc	carmona@carm	Carmona mo	results to Mike	Comments: Email
	×					G		×		10/15/2024	)	S-5 (3')
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			×	×	1	G		×		10/15/2024	1)	S-4 (0-1')
			( x	×	1	G		×		10/15/2024	٥	S-3 (3')
Sample Comments				TPI	# of Cont	Grab/ Comp	Water	Soil	Time	Date	ification	Sample Identification
NaOH+Ascorbic Acid: SAPC				4 80				ature:	Corrected Temperature:	0		Total Containers:
Zn Acetate+NaOH: Zn								ling:	Temperature Reading:	No N/A T	Yes	Sample Custody Seals:
	На		loric	TEX	Pa				Correction Factor.	No N/A C	Yes	Cooler Custody Seals:
	ıld				ran				Thermometer ID:		Yes	Received Intact:
Ü				1B DRO	nete	No	Yes	Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
2			- 101	+ M	rs					200223681		Work Order
				RO)						CRM & DD		Sampler's Name:
Cool: Cool MeOH: Me						5 day	5	Due Date:		Lea County, New Mexico	Lea C	Project Location
None: NO DI Water: H <sub>2</sub> O					Pres. Code		□ Rush	☑ Routine		2548		Project Number:
Preservative Codes	EST	ANALYSIS REQUEST					Turn Around	Turi	iggins	Dogie Draw Ender Wiggins	Dogie [	Project Name:
ADaPT Other:	Deliverables: EDD			l.com	arathonoi	Email: swansonste@marathonoil.com	: swanso	Emai				Phone:
ST/UST RRP LevelIV	Reporting:Level II Level III ST/UST		Houston, TX 77024	Houston,		ite ZIP:	City, State ZIP:			701	Midland, TX 79701	City, State ZIP:
	State of Project:		990 Town and Country Blvd	990 Towr		, r.	Address:			Ste 500	310 W Wall St Ste 500	Address:
ownfields	Program: UST/PST ☐PRP ☐ rownfields ☐ RC		Marathon Oil Corporation	Marathon		Company Name:	Compar			ırces	Carmona Resources	Company Name:
			0.000			dilatarily	Dill to: (ii dillerent)			٥		9

## **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-49854-1

SDG Number: Lea County, New Mexico

List Source: Eurofins Midland

Login Number: 49854 List Number: 1

Creator: Vasquez, Julisa

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

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<6mm (1/4").

**Environment Testing** 

## **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500

Midland, Texas 79701

Generated 10/17/2024 1:51:53 PM

## **JOB DESCRIPTION**

Dogie Draw Ender Wiggings Lea County, New Mexico

## **JOB NUMBER**

880-49853-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

## **Eurofins Midland**

## **Job Notes**

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

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

## **Authorization**

Generated 10/17/2024 1:51:53 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 2

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Client: Carmona Resources Project/Site: Dogie Draw Ender Wiggings Laboratory Job ID: 880-49853-1 SDG: Lea County, New Mexico

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## **Definitions/Glossary**

Job ID: 880-49853-1 Client: Carmona Resources Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

**Qualifiers** 

**GC VOA** 

Qualifier

Qualifier **Qualifier Description** MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

**Qualifier Description** \*+ LCS and/or LCSD is outside acceptance limits, high biased.

\*1 LCS/LCSD RPD exceeds control limits. MS/MSD RPD exceeds control limits F2

Percent Recovery

S1+ Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected. U

**HPLC/IC** 

Qualifier **Qualifier Description** 

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

%R

Abbreviation These commonly used abbreviations may or may not be present in this report.

₩ Listed under the "D" column to designate that the result is reported on a dry weight basis

**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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA

Minimum Detectable Concentration (Radiochemistry) MDC

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** 

Presumptive **PRES** QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Carmona Resources Job ID: 880-49853-1

Project: Dogie Draw Ender Wiggings

**Eurofins Midland** Job ID: 880-49853-1

#### Job Narrative 880-49853-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The samples were received on 10/15/2024 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0.1') (880-49853-1), H-2 (0.1') (880-49853-2), H-3 (0.1') (880-49853-3), H-4 (0.1') (880-49853-4), H-5 (0.1') (880-49853-5), H-6 (0.1') (880-49853-6), H-7 (0.1') (880-49853-7) and H-8 (0.1') (880-49853-8).

#### **GC VOA**

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-93442 and analytical batch 880-93436 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### **Diesel Range Organics**

Method 8015MOD NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-93419/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD NM: The method blank for preparation batch 880-93419 and analytical batch 880-93440 contained Gasoline Range Organics (GRO)-C6-C10 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.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-93419/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-93419 and analytical batch 880-93440 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-93419 and analytical batch 880-93440 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

#### HPLC/IC

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

## **Client Sample Results**

Client: Carmona Resources

Job ID: 880-49853-1 SDG: Lea County, New Mexico Project/Site: Dogie Draw Ender Wiggings

Lab Sample ID: 880-49853-1

Client Sample ID: H-1 (0.1') Date Collected: 10/15/24 00:00

Matrix: Solid

Date Received: 10/15/24 1	16:50
Mothod: CW046 9024D	Valatila Organia Compounda

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:34	10/16/24 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				10/16/24 09:34	10/16/24 12:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/16/24 09:34	10/16/24 12:36	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg	_		10/16/24 12:36	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/17/24 04:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		10/15/24 19:51	10/17/24 04:06	1
Diesel Range Organics (Over	<50.0	U *+	50.0		mg/Kg		10/15/24 19:51	10/17/24 04:06	1
C10-C28) Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 04:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	10/15/24 19:51	10/17/24 04:06	1
o-Terphenyl	95		70 - 130	10/15/24 19:51	10/17/24 04:06	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg				10/16/24 14:33	1

Client Sample ID: H-2 (0.1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-2

10/16/24 12:57

10/16/24 12:57

10/16/24 09:34

10/16/24 09:34

**Matrix: Solid** 

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

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

**Eurofins Midland** 

4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)

## **Client Sample Results**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1 SDG: Lea County, New Mexico

Client Sample ID: H-2 (0.1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-2

Matrix: Solid

Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/16/24 12:57	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/24 04:21	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		10/15/24 19:51	10/17/24 04:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *+	49.9		mg/Kg		10/15/24 19:51	10/17/24 04:21	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/15/24 19:51	10/17/24 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				10/15/24 19:51	10/17/24 04:21	1
o-Terphenyl	98		70 - 130				10/15/24 19:51	10/17/24 04:21	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	П	10.1		mg/Kg			10/16/24 14:40	1

Client Sample ID: H-3 (0.1') Lab Sample ID: 880-49853-3 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:34	10/16/24 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				10/16/24 09:34	10/16/24 13:17	1
1 1 Differenchemanne (Court)	102		70 <sub>-</sub> 130				10/16/24 09:34	10/16/24 13:17	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald			MDI	Unit	n			
- '	- Total BTEX Cald								·
- '	- Total BTEX Cald	Qualifier	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 13:17	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00399	<b>Qualifier</b> U	RL 0.00399	MDL		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00399 esel Range Organ	<b>Qualifier</b> U	RL 0.00399			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00399 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00399		mg/Kg		Prepared	Analyzed 10/16/24 13:17	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399  GC) RL 49.8		mg/Kg		Prepared	Analyzed 10/16/24 13:17 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.8 siesel Range Organ	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399  GC) RL 49.8		mg/Kg  Unit mg/Kg		Prepared	Analyzed 10/16/24 13:17 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.8 siesel Range Organ	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00399  GC)  RL 49.8	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/16/24 13:17  Analyzed 10/17/24 04:35	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.8 siesel Range Orga Result	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U *1	RL 0.00399  GC)  RL 49.8  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared  Prepared	Analyzed 10/16/24 13:17  Analyzed 10/17/24 04:35  Analyzed	Dil Fac

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Client Sample ID: H-3 (0.1')

Job ID: 880-49853-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-49853-3

Matrix: Solid

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(GC) (Continu	ıed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/15/24 19:51	10/17/24 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/15/24 19:51	10/17/24 04:35	1
o-Terphenyl	92		70 - 130				10/15/24 19:51	10/17/24 04:35	1

Method: EPA 300.0 - Anions, Ion Chro	matograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			10/16/24 14:46	1

Client Sample ID: H-4 (0.1')

Date Collected: 10/15/24 00:00

Lab Sample ID: 880-49853-4

Matrix: Solid

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:34	10/16/24 13:38	
Toluene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:34	10/16/24 13:38	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:34	10/16/24 13:38	
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/16/24 09:34	10/16/24 13:38	
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/16/24 09:34	10/16/24 13:38	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/16/24 09:34	10/16/24 13:38	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	89		70 - 130				10/16/24 09:34	10/16/24 13:38	
1,4-Difluorobenzene (Surr)	102		70 - 130				10/16/24 09:34	10/16/24 13:38	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/16/24 13:38	
		ics (DRO) (C Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese	Result	Qualifier	RL	MDL		<u>D</u>	Prepared		Dil Fa
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/17/24 04:50	Dil Fa
Analyte	Result   <49.8	Qualifier U	RL 49.8	MDL		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH	Result <49.8 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.8			<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - Dies	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8		mg/Kg			10/17/24 04:50	
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.8 sel Range Orga	Qualifier U  nics (DRO) Qualifier U *1	RL 49.8 (GC)		mg/Kg		Prepared	10/17/24 04:50  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8  sel Range Orga Result <49.8	Qualifier U  nics (DRO) Qualifier U *1 U *+	RL 49.8 (GC) RL 49.8		mg/Kg  Unit mg/Kg		Prepared 10/15/24 19:51	10/17/24 04:50  Analyzed 10/17/24 04:50	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U  nics (DRO) Qualifier U *1 U *+	RL 49.8  (GC) RL 49.8  49.8		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51	10/17/24 04:50  Analyzed 10/17/24 04:50 10/17/24 04:50	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result   <49.8	Qualifier U  nics (DRO) Qualifier U *1 U *+	RL 49.8  (GC)  RL 49.8  49.8  49.8		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51	Analyzed 10/17/24 04:50  Analyzed 10/17/24 04:50 10/17/24 04:50 10/17/24 04:50	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result   <49.8	Qualifier U  nics (DRO) Qualifier U *1 U *+	RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51 Prepared	Analyzed 10/17/24 04:50  Analyzed 10/17/24 04:50 10/17/24 04:50 Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.8	Qualifier U  nics (DRO) Qualifier U *1 U *+ U  Qualifier	RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51  Prepared 10/15/24 19:51	Analyzed 10/17/24 04:50  Analyzed 10/17/24 04:50 10/17/24 04:50  Analyzed 10/17/24 04:50	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.8	Qualifier U  nics (DRO) Qualifier U *1 U *+ U  Qualifier	RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg  mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51  Prepared 10/15/24 19:51	Analyzed 10/17/24 04:50  Analyzed 10/17/24 04:50 10/17/24 04:50  Analyzed 10/17/24 04:50	Dil Fa  Dil Fa

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Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

Client Sample ID: H-5 (0.1') Lab Sample ID: 880-49853-5 Date Collected: 10/15/24 00:00

Matrix: Solid

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/16/24 09:34	10/16/24 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				10/16/24 09:34	10/16/24 13:58	1
1,4-Difluorobenzene (Surr)	102		70 - 130				10/16/24 09:34	10/16/24 13:58	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/16/24 13:58	1
-									
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (	GC)						
Method: SW846 8015 NM - Dies Analyte	•	ics (DRO) (C Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/17/24 05:05	Dil Fac
Analyte	Result   <50.0	Qualifier U	<b>RL</b> 50.0	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	<b>RL</b> 50.0	MDL	mg/Kg	D 	Prepared Prepared		Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Gasoline Range Organics	<50.0	U *1	50.0		mg/Kg		10/15/24 19:51	10/17/24 05:05	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *+	50.0		mg/Kg		10/15/24 19:51	10/17/24 05:05	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				10/15/24 19:51	10/17/24 05:05	1
o-Terphenyl	101		70 - 130				10/15/24 19:51	10/17/24 05:05	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			10/16/24 15:11	1

Client Sample ID: H-6 (0.1') Lab Sample ID: 880-49853-6

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/16/24 09:34	10/16/24 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				10/16/24 09:34	10/16/24 14:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/16/24 09:34	10/16/24 14:19	1

**Eurofins Midland** 

**Matrix: Solid** 

Job ID: 880-49853-1

Client: Carmona Resources

SDG: Lea County, New Mexico Project/Site: Dogie Draw Ender Wiggings

Lab Sample ID: 880-49853-6

Client Sample ID: H-6 (0.1') Date Collected: 10/15/24 00:00

Matrix: Solid

Analyzed

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/16/24 14:19	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/17/24 05:19	1
Method: SW846 8015B NM - Die	sal Ranga Orga	nice (DPO)	(CC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *1	49.8		mg/Kg		10/15/24 19:51	10/17/24 05:19	1
(GRO)-C6-C10									
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 05:19	1
	<49.8	U *+	49.8		mg/Kg		10/15/24 19:51	10/17/24 05:19	1
Diesel Range Organics (Over	<49.8 <49.8		49.8 49.8		mg/Kg mg/Kg		10/15/24 19:51 10/15/24 19:51	10/17/24 05:19 10/17/24 05:19	1
Diesel Range Organics (Over C10-C28)		U							1 1 <i>Dil Fac</i>
Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.8	U	49.8				10/15/24 19:51	10/17/24 05:19	1 1 <i>Dil Fac</i> 1

Chloride <9.92 U 9.92 10/16/24 15:18 mg/Kg Client Sample ID: H-7 (0.1') Lab Sample ID: 880-49853-7 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

RL

MDL Unit

D

Prepared

Result Qualifier

Date Received: 10/15/24 16:50

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
Toluene	< 0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				10/16/24 09:34	10/16/24 14:39	1
4. 4. Difference bearing (Occurs)	102		70 400				10/10/01 00 01	40/40/04 44:00	
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald		70 <sub>-</sub> 130	MDI	Unit	n	10/16/24 09:34	10/16/24 14:39	
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDI	Unit	n			
	- Total BTEX Cald	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/16/24 14:39	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00398 esel Range Organ	Qualifier U	RL		mg/Kg		Prepared	Analyzed 10/16/24 14:39	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Cald Result <0.00398 esel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL	MDL MDL	mg/Kg	<u>D</u>		Analyzed 10/16/24 14:39 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL		mg/Kg		Prepared	Analyzed 10/16/24 14:39	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Cald Result <0.00398 esel Range Organ Result <49.8	Qualifier U ics (DRO) ( Qualifier U	RL 0.00398  GC)  RL 49.8		mg/Kg		Prepared	Analyzed 10/16/24 14:39 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.8 Diesel Range Orga	Qualifier U ics (DRO) ( Qualifier U	RL 0.00398  GC)  RL 49.8	MDL	mg/Kg		Prepared	Analyzed 10/16/24 14:39 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.8 Diesel Range Orga	Qualifier U ics (DRO) ( Qualifier U nics (DRO) Qualifier	RL 0.00398  GC)  RL 49.8	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/16/24 14:39  Analyzed 10/17/24 05:34	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 esel Range Organ Result <49.8 Diesel Range Orga Result	Qualifier U  ics (DRO) ( Qualifier U  mics (DRO) Qualifier U *1	RL 0.00398  GC)  RL 49.8  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared  Prepared	Analyzed 10/16/24 14:39  Analyzed 10/17/24 05:34  Analyzed	Dil Fac

Project/Site: Dogie Draw Ender Wiggings

Client: Carmona Resources Job ID: 880-49853-1 SDG: Lea County, New Mexico

Client Sample ID: H-7 (0.1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-7

Matrix: Solid

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continu	ied)				
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/15/24 19:51	10/17/24 05:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/15/24 19:51	10/17/24 05:34	1
o-Terphenyl	95		70 - 130			10/15/24 19:51	10/17/24 05:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<10.1	U	10.1		mg/Kg			10/16/24 15:24	1

Client Sample ID: H-8 (0.1')

Date Collected: 10/15/24 00:00

Lab Sample ID: 880-49853-8

**Matrix: Solid** 

Date Received: 10/15/24 16:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/16/24 09:34	10/16/24 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				10/16/24 09:34	10/16/24 16:04	1
1,4-Difluorobenzene (Surr)	98		70 - 130				10/16/24 09:34	10/16/24 16:04	1

Total BTEX	<0.00398	U	0.00398		mg/Kg			10/16/24 16:04	1
Method: SW846 8015 NM - Diese	el Range Organi	cs (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/17/24 06:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.6	U *1	49.6		mg/Kg		10/15/24 19:51	10/17/24 06:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.6	U *+	49.6		mg/Kg		10/15/24 19:51	10/17/24 06:03	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		10/15/24 19:51	10/17/24 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				10/15/24 19:51	10/17/24 06:03	1
o-Terphenyl	79		70 - 130				10/15/24 19:51	10/17/24 06:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <9.92 U 9.92 mg/Kg 10/16/24 15:30

## **Surrogate Summary**

Client: Carmona Resources

Job ID: 880-49853-1 Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Ad
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-49853-1	H-1 (0.1')	88	101	
880-49853-2	H-2 (0.1')	92	102	
880-49853-3	H-3 (0.1')	87	102	
880-49853-4	H-4 (0.1')	89	102	
880-49853-5	H-5 (0.1')	91	102	
880-49853-6	H-6 (0.1')	90	101	
880-49853-7	H-7 (0.1')	89	102	
880-49853-8	H-8 (0.1')	87	98	
880-49855-A-1-B MS	Matrix Spike	107	95	
880-49855-A-1-C MSD	Matrix Spike Duplicate	82	98	
LCS 880-93442/1-A	Lab Control Sample	114	113	
LCSD 880-93442/2-A	Lab Control Sample Dup	119	113	
MB 880-93442/5-A	Method Blank	81	100	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-49802-A-2-D MS	Matrix Spike	129	110	
380-49802-A-2-E MSD	Matrix Spike Duplicate	99	85	
880-49853-1	H-1 (0.1')	100	95	
380-49853-2	H-2 (0.1')	103	98	
380-49853-3	H-3 (0.1')	96	92	
380-49853-4	H-4 (0.1')	95	90	
380-49853-5	H-5 (0.1')	104	101	
380-49853-6	H-6 (0.1')	103	98	
380-49853-7	H-7 (0.1')	98	95	
380-49853-8	H-8 (0.1')	82	79	
_CS 880-93419/2-A	Lab Control Sample	107	145 S1+	
LCSD 880-93419/3-A	Lab Control Sample Dup	132 S1+	179 S1+	
MB 880-93419/1-A	Method Blank	90	90	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-93442/5-A

**Matrix: Solid** 

Analysis Batch: 93436

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 93442

MB	MB
Pocult	Oualit

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/16/24 09:34	10/16/24 11:13	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	_	10/16/24 09:34	10/16/24 11:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130		10/16/24 09:34	10/16/24 11:13	1

Lab Sample ID: LCS 880-93442/1-A

Matrix: Solid

Analysis Batch: 93436

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 93442

	<b>Бріке</b>	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1018		mg/Kg		102	70 - 130	
Toluene	0.100	0.08570		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2197		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	114		70 - 130	
1,4-Difluorobenzene (Surr)	113		70 - 130	

Lab Sample ID: LCSD 880-93442/2-A

**Matrix: Solid** 

Analysis Batch: 93436

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 93442

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1081 mg/Kg 108 70 - 130 6 35 Toluene 0.100 0.09147 mg/Kg 91 70 - 130 7 35 Ethylbenzene 0.100 0.1279 mg/Kg 128 70 - 130 11 35 0.200 m-Xylene & p-Xylene 0.2392 mg/Kg 120 70 - 130 35 0.100 0.1166 o-Xylene mg/Kg 117 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1.4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-49855-A-1-B MS

**Matrix: Solid** 

Analysis Batch: 93436

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

Prep Batch: 93442

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1	0.100	0.06446	F1	mg/Kg		64	70 - 130	
Toluene	< 0.00202	U	0.100	0.07115		mg/Kg		71	70 - 130	

## QC Sample Results

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49855-A-1-B MS

Lab Sample ID: 880-49855-A-1-C MSD

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 93436** 

Analysis Batch: 93436

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 93442

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U	0.100	0.08183		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1533		mg/Kg		77	70 - 130	
o-Xylene	<0.00202	U	0.100	0.07623		mg/Kg		76	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 93442

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00202 UF1 0.08668 mg/Kg 87 70 - 130 29 35 Toluene 0.08513 <0.00202 U 0.100 mg/Kg 85 70 - 130 18 35 Ethylbenzene <0.00202 U 0.100 0.08674 mg/Kg 87 70 - 130 6 35 <0.00404 U 0.200 0.1682 70 - 130 35 m-Xylene & p-Xylene mg/Kg 9 0.100 <0.00202 U 0.08131 81 70 - 130 o-Xylene mg/Kg 6

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-93419/1-A

**Matrix: Solid** 

Analysis Batch: 93440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 93419

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/15/24 19	10/17/24 01:53	
o-Terphenyl	90		70 - 130	10/15/24 19	:51 10/17/24 01:53	1

Lab Sample ID: LCS 880-93419/2-A

**Matrix: Solid** 

Analysis Batch: 93440

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 93419

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	924.2		mg/Kg		92	70 - 130	 
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1181		mg/Kg		118	70 - 130	
C10-C28)								

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-93419/2-A

**Matrix: Solid** 

Analysis Batch: 93440

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 93419

LCS LCS

Sample Sample

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 o-Terphenyl 145 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 93419

Lab Sample ID: LCSD 880-93419/3-A **Matrix: Solid** Analysis Batch: 93440

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1135 \*1 114 70 - 13021 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1443 \*+ mg/Kg 144 70 - 13020 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 132 S1+ 70 - 130 1-Chlorooctane o-Terphenyl 179 S1+ 70 - 130

Lab Sample ID: 880-49802-A-2-D MS Client Sample ID: Matrix Spike

Me Me

Matrix: Solid

**Analysis Batch: 93440** 

Prep Type: Total/NA

Prep Batch: 93419

	Sample	Sample	Spike	IVIO	IVIO				/ortec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U *1	996	929.9		mg/Kg		93	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U *+ F2	996	911.1		mg/Kg		91	70 - 130	
C10-C28)										

Snike

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 129 o-Terphenyl 110 70 - 130

Lab Sample ID: 880-49802-A-2-E MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 93440

Prep Type: Total/NA

Prep Batch: 93419

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	996	761.6		mg/Kg		76	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F2	996	703.8	F2	mg/Kg		71	70 - 130	26	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	85		70 - 130

## QC Sample Results

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93459/1-A

**Matrix: Solid** 

Analysis Batch: 93474

Analyte

Chloride

мв мв Dil Fac MDL Unit Result Qualifier RL D Prepared Analyzed 10.0 10/16/24 13:56

mg/Kg

Lab Sample ID: LCS 880-93459/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

<10.0 U

Analysis Batch: 93474

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 245.8 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-93459/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 93474

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 246.0 mg/Kg 90 - 110

Lab Sample ID: 880-49852-A-1-D MS

**Matrix: Solid** 

Analysis Batch: 93474

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits 272.2 Chloride 22.8 250 100 90 - 110 mg/Kg

Lab Sample ID: 880-49852-A-1-E MSD

**Matrix: Solid** 

Analysis Batch: 93474

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 22.8 272.4 mg/Kg 100 90 - 110 0 20

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1 SDG: Lea County, New Mexico

#### **GC VOA**

#### Analysis Batch: 93436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	8021B	93442
880-49853-2	H-2 (0.1')	Total/NA	Solid	8021B	93442
880-49853-3	H-3 (0.1')	Total/NA	Solid	8021B	93442
880-49853-4	H-4 (0.1')	Total/NA	Solid	8021B	93442
880-49853-5	H-5 (0.1')	Total/NA	Solid	8021B	93442
880-49853-6	H-6 (0.1')	Total/NA	Solid	8021B	93442
880-49853-7	H-7 (0.1')	Total/NA	Solid	8021B	93442
880-49853-8	H-8 (0.1')	Total/NA	Solid	8021B	93442
MB 880-93442/5-A	Method Blank	Total/NA	Solid	8021B	93442
LCS 880-93442/1-A	Lab Control Sample	Total/NA	Solid	8021B	93442
LCSD 880-93442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93442
880-49855-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	93442
880-49855-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	93442

#### Prep Batch: 93442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	5035	
880-49853-2	H-2 (0.1')	Total/NA	Solid	5035	
880-49853-3	H-3 (0.1')	Total/NA	Solid	5035	
880-49853-4	H-4 (0.1')	Total/NA	Solid	5035	
880-49853-5	H-5 (0.1')	Total/NA	Solid	5035	
880-49853-6	H-6 (0.1')	Total/NA	Solid	5035	
880-49853-7	H-7 (0.1')	Total/NA	Solid	5035	
880-49853-8	H-8 (0.1')	Total/NA	Solid	5035	
MB 880-93442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49855-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-49855-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 93544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-2	H-2 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-3	H-3 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-4	H-4 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-5	H-5 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-6	H-6 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-7	H-7 (0.1')	Total/NA	Solid	Total BTEX	
880-49853-8	H-8 (0.1')	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 93419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-2	H-2 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-3	H-3 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-4	H-4 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-5	H-5 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-6	H-6 (0.1')	Total/NA	Solid	8015NM Prep	

**Eurofins Midland** 

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1.4

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1 SDG: Lea County, New Mexico

### GC Semi VOA (Continued)

### Prep Batch: 93419 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-7	H-7 (0.1')	Total/NA	Solid	8015NM Prep	
880-49853-8	H-8 (0.1')	Total/NA	Solid	8015NM Prep	
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 93440**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-2	H-2 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-3	H-3 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-4	H-4 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-5	H-5 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-6	H-6 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-7	H-7 (0.1')	Total/NA	Solid	8015B NM	93419
880-49853-8	H-8 (0.1')	Total/NA	Solid	8015B NM	93419
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015B NM	93419
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93419
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93419
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	93419
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	93419

#### Analysis Batch: 93563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Total/NA	Solid	8015 NM	
880-49853-2	H-2 (0.1')	Total/NA	Solid	8015 NM	
880-49853-3	H-3 (0.1')	Total/NA	Solid	8015 NM	
880-49853-4	H-4 (0.1')	Total/NA	Solid	8015 NM	
880-49853-5	H-5 (0.1')	Total/NA	Solid	8015 NM	
880-49853-6	H-6 (0.1')	Total/NA	Solid	8015 NM	
880-49853-7	H-7 (0.1')	Total/NA	Solid	8015 NM	
880-49853-8	H-8 (0.1')	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 93459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Soluble	Solid	DI Leach	_
880-49853-2	H-2 (0.1')	Soluble	Solid	DI Leach	
880-49853-3	H-3 (0.1')	Soluble	Solid	DI Leach	
880-49853-4	H-4 (0.1')	Soluble	Solid	DI Leach	
880-49853-5	H-5 (0.1')	Soluble	Solid	DI Leach	
880-49853-6	H-6 (0.1')	Soluble	Solid	DI Leach	
880-49853-7	H-7 (0.1')	Soluble	Solid	DI Leach	
880-49853-8	H-8 (0.1')	Soluble	Solid	DI Leach	
MB 880-93459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49852-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

### HPLC/IC (Continued)

#### Leach Batch: 93459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 93474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49853-1	H-1 (0.1')	Soluble	Solid	300.0	93459
880-49853-2	H-2 (0.1')	Soluble	Solid	300.0	93459
880-49853-3	H-3 (0.1')	Soluble	Solid	300.0	93459
880-49853-4	H-4 (0.1')	Soluble	Solid	300.0	93459
880-49853-5	H-5 (0.1')	Soluble	Solid	300.0	93459
880-49853-6	H-6 (0.1')	Soluble	Solid	300.0	93459
880-49853-7	H-7 (0.1')	Soluble	Solid	300.0	93459
880-49853-8	H-8 (0.1')	Soluble	Solid	300.0	93459
MB 880-93459/1-A	Method Blank	Soluble	Solid	300.0	93459
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	300.0	93459
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93459
880-49852-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	93459
880-49852-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	93459

Job ID: 880-49853-1

SDG: Lea County, New Mexico

Client Sample ID: H-1 (0.1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50 Lab Sample ID: 880-49853-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 12:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 04:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 04:06	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 14:33	CH	EET MID

Lab Sample ID: 880-49853-2

Matrice Calid

Matrix: Solid

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

Client Sample ID: H-2 (0.1')

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 93442 10/16/24 09:34 MNR EET MID Total/NA 8021B 5 mL 10/16/24 12:57 **EET MID** Analysis 1 5 mL 93436 MNR Total/NA Total BTEX 93544 10/16/24 12:57 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 93563 10/17/24 04:21 **EET MID** Total/NA 93419 10/15/24 19:51 EL Prep 8015NM Prep 10.03 g 10 mL EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 93440 10/17/24 04:21 TKC **EET MID** Soluble 10/16/24 11:11 Leach DI Leach 4.96 g 50 mL 93459 SA EET MID Soluble Analysis 300.0 50 mL 50 mL 93474 10/16/24 14:40 СН **EET MID** 

Client Sample ID: H-3 (0.1')

Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Lab Sample ID: 880-49853-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 13:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 04:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 04:35	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 14:46	CH	EET MID

Client Sample ID: H-4 (0.1')

Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Lab Sample ID: 880-4985	3-4
Matrix: So	

		_

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 13:38	AJ	EET MID

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

Client Sample ID: H-4 (0.1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50 Lab Sample ID: 880-49853-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93563	10/17/24 04:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 04:50	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 14:52	CH	EET MID

Lab Sample ID: 880-49853-5

Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Client Sample ID: H-5 (0.1')

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 13:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 05:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 05:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 15:11	CH	EET MID

Client Sample ID: H-6 (0.1') Lab Sample ID: 880-49853-6 Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 14:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 05:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 05:19	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 15:18	CH	EET MID

Lab Sample ID: 880-49853-7 Client Sample ID: H-7 (0.1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 14:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 05:34	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	93419 93440	10/15/24 19:51 10/17/24 05:34	EL TKC	EET MID EET MID

**Eurofins Midland** 

**Matrix: Solid** 

### **Lab Chronicle**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-49853-7

Matrix: Solid

Client Sample ID: H-7 (0.1')

Date Collected: 10/15/24 00:00 Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 15:24	CH	EET MID

Client Sample ID: H-8 (0.1') Lab Sample ID: 880-49853-8

Date Collected: 10/15/24 00:00 **Matrix: Solid** 

Date Received: 10/15/24 16:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93442	10/16/24 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93436	10/16/24 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93544	10/16/24 16:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			93563	10/17/24 06:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	93419	10/15/24 19:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93440	10/17/24 06:03	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93459	10/16/24 11:11	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93474	10/16/24 15:30	CH	EET MID

**Laboratory References:** 

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

## **Accreditation/Certification Summary**

Client: Carmona Resources

Job ID: 880-49853-1

Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

#### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
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

Method

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Project/Site: Dogie Draw Ender Wiggings

**Method Description** 

Total BTEX Calculation

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

**Deionized Water Leaching Procedure** 

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 880-49853-1

SDG: Lea County, New Mexico

EET MID

**EET MID** 

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID
SW846	FET MID

SW846

ASTM

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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: Dogie Draw Ender Wiggings

Job ID: 880-49853-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-49853-1	H-1 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-2	H-2 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-3	H-3 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-4	H-4 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-5	H-5 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-6	H-6 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-7	H-7 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50
880-49853-8	H-8 (0.1')	Solid	10/15/24 00:00	10/15/24 16:50

880-49853 Chain of Custody

Project Name   Comment Name   Comm													1				Lage	
State   Carmona Resources   Carmona Resources   Company Name   Carmona Resources   C	Project Manager:	Conner Moehrir	пg			Bill to: (if dif	(erent)	රි	dy Swans	on Steege					Wo	rk Order	Comments	
State of Project   State of Pr	Company Name:	Carmona Reso	urces			Company P	vame:	Ma	rathon O	Corporati	uo		4	rogram: L	ST/PST   PF	RP   Brow	mfields   RC	
Name:		310 W Wall St	Ste 500			Address:		66	D Town a	nd Country	Blvd		<u>σ</u>	ate of Pro	ject			
Number:         Dogle Draw Ender Wilgins         Turn Annual Suanssonste@marathonolicom         First Annual Suanssonste@marathonolicom         Turn Annual Suanssonste@marathonolicom         Preservative Prese	City, State ZIP:	Midland, TX 79	101			City, State	ZIP:	오	uston, T	77024			<u>~</u>	eporting:L	evel II 🗌 Leve	III D'S		
Dogle Draw Ender Wiggins   Turn Around   Presservation   Pre	Phone:				Email:	swansons	te@mara	thonoil.c	mo.					eliverable	: EDO	ADaF		ï
Figure   Part   Part	Project Name:	Dogie I	Draw Ender V	Wiggins	Tum	Around					A	NALYSI	REQUE	ST			Presen	ative Codes
Lea County, New Mexico   Due Date:   5 day   CRM & DD     CRM & DD   CRM & DD     CRM & DD     CRM & DD     CRM & DD     CRM & DD   CRM & DD       CRM & DD     CRM & DD     CRM & DD     CRM & DD     CRM & DD     CRM & DD     CRM & DD     CRM & DD	Project Number:		2548			□ Rush		ode.									None: NO	DI Water: H <sub>2</sub> (
Team & Date   Time Bank:   Yee No   Wet Ice:   Yee No	Project Location	Lea C	County, New A	Mexico	Due Date:	5 da											Cool: Cool	MeOH: Me
Tamp Blank   Yef No   Wet Ice:   Yes   No   Thermometer ID:   Parameter ID:	Sampler's Name:		CRM & DD						(ОЯ								HCL: HC	HNO <sub>3</sub> : HN
Temp Blank: Yes No   Wet loc:   Yes No   Wet loc:   Yes No   Thermometer ID:   Yes No   With Correction Factor:   Yes No   With Correction Factor:   Corrected Temperature:   Soil   Water   Comp   Cont   Thermometer ID:   Temperature Reading:   Soil   Water   Comp   Cont   Thermometer ID:   Temperature Reading:   Soil   Water   Comp   Cont   Thermometer ID:   Temperature:   Soil   Water   Cont   Thermometer ID:   Temperature Reading:   Temperature:   Soil   Water   Comp   Cont   Thermometer ID:   Temperature Reading:   Temperature:   Soil   Water   Comp   Cont   Temperature:   Temperature:   Soil   Water   Comp   Temperature:   Temp	Work Order		200223681			(		8.	W +								H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	NaOH: Na
Yes No   Themmometer ID:   Yes No   With   Themmometer ID:   Yes No   With   Temmometer ID:   Yes No   With   Y	SAMPLE RECEIF		np Blank:	Yes No	Wet Ice:	$\vdash$	N <sub>S</sub>			0.0							H <sub>3</sub> PO₄: HP	
Yes No   M/A   Temperature Reading:   Soil   Water   Gont   Cornection Factor   Soil   Water   Comp   Cont	Received Intact:	Ye	oN or	Thermometer ID		R	4			е 30						PI	NaHSO4: NAE	SIS
ves         No. W/A)         Temperature Reading:         Soil         Water Comp         Grab Comp         # of Comp         FEATURE Count C	Cooler Custody Seals	Yes		Correction Facto	זר	1	1			pho						OH.	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : Na <sub>5</sub>	303
Corrected Temperature:   Soil   Water   Graph   # of Graph   Annial   Corrected Temperature:   Soil   Water   Graph   # of Graph   Annial   Annial   Graph   Annial   Annial   Graph   Annial	Sample Custody Seal	Yes		Temperature Re	ading:	5.6	0			сы				<u>.</u>			Zn Acetate+N	aOH: Zn
Date         Time         Soil         Water comp cont         Gont comp         F         <	otal Containers:			Corrected Temp	erature:	(C)			108								NaOH+Ascort	bic Acid: SAPC
10/15/2024     X     G     1     X     X	Sample Ident	tification	Date	Time	Soil		$\vdash$	# of	HqT								Sample	Comments
10/15/2024       X       G       1       X       X	H-1 (0-	-1.)	10/15/2024		×		+-	+	+	×		+		-		-		
10/15/2024     X     G     1     X     X	H-2 (0-	-1')	10/15/2024		×		9	$\vdash$	$\vdash$	×	-							
10/15/2024     X     G     1     X     X	H-3 (0-	-1.)	10/15/2024	-	×		ပ	-	┢	×								
10/15/2024     X     G     1     X     X       10/15/2024     X     G     1     X     X       10/15/2024     X     G     1     X     X	H-4 (0-	-11)	10/15/2024	_	×		ပ	-	-	×								
10/15/2024 X G 1 X X 10/15/2024 X G 1 X X X 10/15/2024 X G 1 X X X X X X X X X X X X X X X X X	H-5 (0-	-1')	10/15/2024	-	×		ပ		$\vdash$	×								
10/15/2024 X G 1 X X 10/15/2024 X G 1 X X X	-0) 9-H	-1.)	10/15/2024	_	×		ပ		$\vdash$	×								
10/15/2024 X G 1 X X	H-7 (0-	-1')	10/15/2024		×		ပ	_	$\vdash$	×								
	-0) 8-H	-1.)	10/15/2024		×		ဗ	-	-	×								
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Date/Time Received by; (Signature) Date/Time										-			}					
Date/Time Received by, (Signature) Date/Time Date/Time													)					

Chain of Custody

### **Login Sample Receipt Checklist**

Client: Carmona Resources

Job Number: 880-49853-1

SDG Number: Lea County, New Mexico

List Source: Eurofins Midland

Login Number: 49853 List Number: 1

Creator: Vasquez, Julisa

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

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**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500

Midland, Texas 79701 Generated 10/17/2024 1:50:51 PM

# **JOB DESCRIPTION**

Dogie Draw Ender Wiggings Lea County, New Mexico

### **JOB NUMBER**

880-49852-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

### **Job Notes**

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

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

### **Authorization**

Generated 10/17/2024 1:50:51 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 3

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Client: Carmona Resources Project/Site: Dogie Draw Ender Wiggings Laboratory Job ID: 880-49852-1 SDG: Lea County, New Mexico

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### **Definitions/Glossary**

Client: Carmona Resources Job ID: 880-49852-1 Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

#### **Qualifiers**

-	_	.,	$\overline{}$	•
G	U	V	U	А

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

#### **GC Semi VOA**

GO OCIIII VO	
Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

RL

RPD

TEF

TEQ TNTC

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
<del>\( \tilde{\pi} \)</del>	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)

**Eurofins Midland** 

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Relative Percent Difference, a measure of the relative difference between two points

#### **Case Narrative**

Client: Carmona Resources Job ID: 880-49852-1

Project: Dogie Draw Ender Wiggings

**Eurofins Midland** Job ID: 880-49852-1

#### Job Narrative 880-49852-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The sample was received on 10/15/2024 4:50 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 5.7°C.

#### Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: Background (880-49852-1).

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-93442 and analytical batch 880-93436 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### **Diesel Range Organics**

Method 8015MOD NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-93419/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD NM: The method blank for preparation batch 880-93419 and analytical batch 880-93440 contained Gasoline Range Organics (GRO)-C6-C10 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.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-93419/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-93419 and analytical batch 880-93440 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-93419 and analytical batch 880-93440 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

### **Client Sample Results**

Client: Carmona Resources

Job ID: 880-49852-1 Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Lab Sample ID: 880-49852-1

**Client Sample ID: Background** Date Collected: 10/15/24 00:00

Date Received: 10/15/24 16:50

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:16	
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:16	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:16	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/16/24 09:34	10/16/24 12:16	
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 12:16	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/16/24 09:34	10/16/24 12:16	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	89		70 - 130				10/16/24 09:34	10/16/24 12:16	
1,4-Difluorobenzene (Surr)	102		70 - 130				10/16/24 09:34	10/16/24 12:16	:
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	П	0.00399		mg/Kg			10/16/24 12:16	1
IOIAI DT LX	10.00000	Ü	0.00000					10/10/21 12:10	
<del>.</del> •								10,10,2112110	
Method: SW846 8015 NM - Dieso Analyte	el Range Organ			MDL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.7	ics (DRO) ( Qualifier	GC) RL 49.7	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <a href="#">&lt;49.7</a> sel Range Organ	ics (DRO) ( Qualifier	GC) RL 49.7	MDL	Unit mg/Kg	D	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Dieso Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result <a href="#">&lt;49.7</a> sel Range Organ	ics (DRO) ( Qualifier U nics (DRO) Qualifier	RL 49.7 (GC)		Unit mg/Kg			Analyzed 10/17/24 03:52	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <a href="#">&lt;49.7</a> sel Range Orga Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U *1	GC)  RL 49.7  (GC) RL		Unit mg/Kg		Prepared	Analyzed 10/17/24 03:52 Analyzed	Dil Fa
Method: SW846 8015 NM - Dieso Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 49.7 sel Range Orga Result 49.7	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U *1 U *+	GC)  RL 49.7  (GC)  RL 49.7		Unit mg/Kg  Unit mg/Kg		Prepared 10/15/24 19:51	Analyzed 10/17/24 03:52  Analyzed 10/17/24 03:52	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.7 sel Range Orga Result 49.7 449.7	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U *1 U *+	GC)  RL 49.7  (GC)  RL 49.7  49.7		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51	Analyzed 10/17/24 03:52  Analyzed 10/17/24 03:52 10/17/24 03:52	
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 49.7 sel Range Orga Result 49.7 449.7 449.7	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U *1 U *+	GC)  RL 49.7  (GC)  RL 49.7  49.7  49.7		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51	Analyzed 10/17/24 03:52  Analyzed 10/17/24 03:52 10/17/24 03:52 10/17/24 03:52	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	el Range Organ Result 49.7 sel Range Orga Result 49.7 49.7 49.7 %Recovery	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U *1 U *+	GC)  RL 49.7  (GC)  RL 49.7  49.7  49.7  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51 Prepared	Analyzed 10/17/24 03:52  Analyzed 10/17/24 03:52 10/17/24 03:52 10/17/24 03:52 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	el Range Organ	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U *1 U *+ U  Qualifier	GC)  RL 49.7  (GC)  RL 49.7  49.7  49.7  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 10/15/24 19:51 10/15/24 19:51 10/15/24 19:51 Prepared 10/15/24 19:51	Analyzed 10/17/24 03:52  Analyzed 10/17/24 03:52 10/17/24 03:52  Analyzed 10/17/24 03:52	Dil Fac

10.0

22.8

mg/Kg

10/16/24 14:15

Chloride

### **Surrogate Summary**

Client: Carmona Resources Job ID: 880-49852-1 Project/Site: Dogie Draw Ender Wiggings SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-49852-1	Background	89	102	
880-49855-A-1-B MS	Matrix Spike	107	95	
880-49855-A-1-C MSD	Matrix Spike Duplicate	82	98	
LCS 880-93442/1-A	Lab Control Sample	114	113	
LCSD 880-93442/2-A	Lab Control Sample Dup	119	113	
MB 880-93442/5-A	Method Blank	81	100	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

1CO1 OTPH1
icoi cirii
Lab Sample ID Client Sample ID (70-130) (70-130)
880-49802-A-2-D MS Matrix Spike 129 110
880-49802-A-2-E MSD Matrix Spike Duplicate 99 85
880-49852-1 Background 100 96
LCS 880-93419/2-A Lab Control Sample 107 145 S1+
LCSD 880-93419/3-A Lab Control Sample Dup 132 S1+ 179 S1+
MB 880-93419/1-A Method Blank 90 90

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-93442/5-A

**Matrix: Solid** 

Analysis Batch: 93436

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 93442

	MB	MB	
_		_	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/16/24 09:34	10/16/24 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/16/24 09:34	10/16/24 11:13	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	10/16/24 09:34	10/16/24 11:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/16/24 09:34	10/16/24 11:13	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 93442

Lab Sample ID: LCS 880-93442/1-A Matrix: Solid

Analysis Batch: 93436

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1018	-	mg/Kg		102	70 - 130	
Toluene	0.100	0.08570		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.1151		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2197		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	113	70 - 130

Lab Sample ID: LCSD 880-93442/2-A

**Matrix: Solid** 

Analyte

Benzene

Analysis Batch: 93436

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 93442

LCSD LCSD RPD %Rec Result Qualifier Unit %Rec Limits Limit mg/Kg 108 70 - 130 6 35 91 7 35

Toluene 0.100 0.09147 mg/Kg 70 - 130 Ethylbenzene 0.100 0.1279 mg/Kg 128 70 - 130 11 35 0.200 m-Xylene & p-Xylene 0.2392 mg/Kg 120 70 - 130 35 0.100 0.1166 70 - 130 o-Xylene mg/Kg 117 35

0.1081

Spike

Added

0.100

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	113	70 - 130

Lab Sample ID: 880-49855-A-1-B MS

**Matrix: Solid** 

Analysis Batch: 93436

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

Prep Batch: 93442

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1	0.100	0.06446	F1	mg/Kg		64	70 - 130	
Toluene	<0.00202	U	0.100	0.07115		mg/Kg		71	70 - 130	

### **QC Sample Results**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-49855-A-1-B MS

Lab Sample ID: 880-49855-A-1-C MSD

**Matrix: Solid** 

Analysis Batch: 93436

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 93442

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U	0.100	0.08183		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1533		mg/Kg		77	70 - 130	
o-Xylene	<0.00202	U	0.100	0.07623		mg/Kg		76	70 - 130	

MS MS

Surrogate	%Recovery (	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Batch: 93442

**Analysis Batch: 93436** 

**Matrix: Solid** 

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.100	0.08668		mg/Kg		87	70 - 130	29	35
Toluene	<0.00202	U	0.100	0.08513		mg/Kg		85	70 - 130	18	35
Ethylbenzene	<0.00202	U	0.100	0.08674		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1682		mg/Kg		84	70 - 130	9	35
o-Xylene	<0.00202	U	0.100	0.08131		mg/Kg		81	70 - 130	6	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-93419/1-A

**Matrix: Solid** 

Analysis Batch: 93440

Client	<b>Sample</b>	ID: N	/lethod	Blank
	_	_	_	

Prep Type: Total/NA Prep Batch: 93419

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/15/24 19:51	10/17/24 01:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/15/24 19:51	10/17/24 01:53	1
o-Terphenyl	90		70 - 130	10/15/24 19:51	10/17/24 01:53	1

Lab Sample ID: LCS 880-93419/2-A

**Matrix: Solid** 

Analysis Batch: 93440

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 93419

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	924.2		mg/Kg		92	70 - 130	 
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1181		mg/Kg		118	70 - 130	
C10-C28)								

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-93419/2-A

Lab Sample ID: LCSD 880-93419/3-A

Lab Sample ID: 880-49802-A-2-D MS

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 93440

Diesel Range Organics (Over

**Analysis Batch: 93440** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 93419

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 o-Terphenyl 145 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

144

Prep Type: Total/NA

20

20

Analysis Batch: 93440 Prep Batch: 93419 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1135 \*1 114 70 - 13021 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1443 \*+

mg/Kg

1000

C10-C28)

**Matrix: Solid** 

LCSD LCSD

Surrogate %Recovery Qualifier Limits 132 S1+ 70 - 130 1-Chlorooctane 179 S1+ 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 93419

MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U \*1 996 929.9 mg/Kg 93 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U\*+ F2 996 911.1 mg/Kg 91 70 - 130

C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 129 70 - 130 o-Terphenyl 110

Lab Sample ID: 880-49802-A-2-E MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 93440

Prep Type: Total/NA

Prep Batch: 93419

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U \*1 996 761.6 Gasoline Range Organics <49.9 mg/Kg 76 70 - 130 20 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U\*+ F2 996 703.8 F2 mg/Kg 71 70 - 130 26 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	85		70 - 130

### QC Sample Results

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

SDG: Lea County, New Mexico

Client Sample ID: Background

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93459/1-A

**Matrix: Solid** 

Analysis Batch: 93474

Client Sample ID: Method Blank **Prep Type: Soluble** 

MB MB MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <10.0 U 10.0 mg/Kg 10/16/24 13:56

Lab Sample ID: LCS 880-93459/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 93474

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 245.8 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-93459/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 93474

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 246.0 mg/Kg 90 - 110

Lab Sample ID: 880-49852-1 MS Client Sample ID: Background **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 93474

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec Result Limits 272.2 Chloride 22.8 250 100 90 - 110 mg/Kg

Lab Sample ID: 880-49852-1 MSD

**Matrix: Solid** 

Analysis Batch: 93474

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 22.8 272.4 mg/Kg 100 90 - 110 0 20

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

SDG: Lea County, New Mexico

#### **GC VOA**

#### Analysis Batch: 93436

<b>Lab Sample ID</b> 880-49852-1	Client Sample ID  Background	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 93442
MB 880-93442/5-A	Method Blank	Total/NA	Solid	8021B	93442
LCS 880-93442/1-A	Lab Control Sample	Total/NA	Solid	8021B	93442
LCSD 880-93442/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93442
880-49855-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	93442
880-49855-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	93442

#### Prep Batch: 93442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-49852-1	Background	Total/NA	Solid	5035	
MB 880-93442/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93442/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93442/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49855-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-49855-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 93543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 93419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	8015NM Prep	
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 93440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	8015B NM	93419
MB 880-93419/1-A	Method Blank	Total/NA	Solid	8015B NM	93419
LCS 880-93419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93419
LCSD 880-93419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93419
880-49802-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	93419
880-49802-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	93419

#### Analysis Batch: 93562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 93459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Soluble	Solid	DI Leach	
MB 880-93459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

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Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

SDG: Lea County, New Mexico

### **HPLC/IC** (Continued)

#### Leach Batch: 93459 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1 MS	Background	Soluble	Solid	DI Leach	
880-49852-1 MSD	Background	Soluble	Solid	DI Leach	

#### **Analysis Batch: 93474**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49852-1	Background	Soluble	Solid	300.0	93459
MB 880-93459/1-A	Method Blank	Soluble	Solid	300.0	93459
LCS 880-93459/2-A	Lab Control Sample	Soluble	Solid	300.0	93459
LCSD 880-93459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93459
880-49852-1 MS	Background	Soluble	Solid	300.0	93459
880-49852-1 MSD	Background	Soluble	Solid	300.0	93459

#### **Lab Chronicle**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Job ID: 880-49852-1

SDG: Lea County, New Mexico

Analyst

MNR

MNR

ΑJ

ΑJ

EL

TKC

SA

СН

Batch

93442

93436

93543

93562

93419

93440

93459

93474

10 mL

1 uL

50 mL

50 mL

Number

Prepared

or Analyzed

10/16/24 09:34

10/16/24 12:16

10/16/24 12:16

10/17/24 03:52

10/15/24 19:51

10/17/24 03:52

10/16/24 11:11

10/16/24 14:15

**Client Sample ID: Background** Lab Sample ID: 880-49852-1 Date Collected: 10/15/24 00:00

1

10.06 g

1 uL

5.00 g

50 mL

Matrix: Solid

Lab

EET MID

**EET MID** 

EET MID

**EET MID** 

EET MID

**EET MID** 

EET MID

**EET MID** 

Date Received: 10/15/24 16:50 Batch Batch Dil Initial Final Prep Type Туре Method Run Factor Amount Amount 5035 Total/NA Prep 5.01 g 5 mL 8021B Total/NA Analysis 1 5 mL 5 mL

 5
8

**Laboratory References:** 

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

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

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

## **Accreditation/Certification Summary**

Client: Carmona Resources

Job ID: 880-49852-1

Project/Site: Dogie Draw Ender Wiggings

SDG: Lea County, New Mexico

#### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

A

+

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### **Method Summary**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

SDG: Lea 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

**Eurofins Midland** 

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### **Sample Summary**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggings

Job ID: 880-49852-1

SDG: Lea County, New Mexico

Lab Sample ID Client Sample ID Matrix Collected Received 880-49852-1 Background Solid 10/15/24 00:00 10/15/24 16:50

880-49852 Chain of Custody

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10 11

12 13

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nments	ids   RC   Diperfund		T   RRP   Level IV	] Other:	Preservative Codes	None: NO DI Water: H <sub>2</sub> O	Cool: Cool MeOH: Me			•	NaHSO <sub>4</sub> : NABIS	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments							s.com		Date/Time	10/15/24/65		
Work Order Comments	Program: UST/PST DRP Drownfields DRC	State of Project:	Reporting:Level II Level III ST/UST	Deliverables: EDD	JEST		Ö	OH OH	H <sub>2</sub> S	H	PI		uZ	Nac								Merritt Merritt (@carmonaresource:		Received by: (Signature)	^		
Cody Swanson Steege	Marathon Oil Corporation	990 Town and Country Blvd	Houston, TX 77024		ANALYSIS REQUEST			(08	W +	0.00	1 + C	_	_	108	нат	×						'ces.com, conner moenring cmoenring@carmonaresources.com, പ്വന് merritt merrittu@carmonaresources.com					
		990 To		il: swansonste@marathonoil.com		Pres. Code		I	8.	19391	ram 802		.8		ib/ # of np Cont	×						ier Moenring cmo		Date/Time			1
Bill to: (if different)	Company Name:	Address:	City, State ZIP:	ail: swansonste(	Turn Around	□ Rush	5 day			oN ON	TRS	1	7.	5.7	Water Comp	9						rces.com, conn					
				Ema	T	☐ Routine	Due Date:			Wet Ice:		or.	ading:	erature:	Soil	×						rmonaresour					
					Viggins		Aexico		(	Yes (No	Thermometer ID:	Correction Factor.	Temperature Reading:	Corrected Temperature:	Time							ıcarmona@ca		by: (Signature)			
ehring	esources	310 W Wall St Ste 500	K 79701		Dogie Draw Ender Wiggins	2548	Lea County, New Mexico	CRM & DD	200223681	Temp Blank:	Yes No	Yes No NIA	Yes No N/A		Date	10/15/2024						Comments: Email results to Mike Carmona mearmona@carmonaresour		Relinquished by: (Signature)			
Conner Moehring	Carmona Resources	310 W Wal	Midland, TX 79701		<u>a</u>		د	10		:EIPT					Sample Identification	Background					4 4 11100	naii resuits to				1	
Project Manager.	Company Name:	Address:	City, State ZIP:	Phone:	Project Name:	Project Number:	Project Location	Sampler's Name:	Work Order	SAMPLE RECEIPT	Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample I	Back					- change	Collineants: En			4	1	

Chain of Custody

### **Login Sample Receipt Checklist**

Client: Carmona Resources Job Number: 880-49852-1 SDG Number: Lea County, New Mexico

List Source: Eurofins Midland

Login Number: 49852 List Number: 1

Creator: Vasquez, Julisa

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

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

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

Generated 1/13/2025 2:04:32 PM

# **JOB DESCRIPTION**

Dogie Draw Ender Wiggins 2548

# **JOB NUMBER**

890-7563-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

### **Job Notes**

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

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

### **Authorization**

Generated 1/13/2025 2:04:32 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 20

Client: Carmona Resources Project/Site: Dogie Draw Ender Wiggins Laboratory Job ID: 890-7563-1

SDG: 2548

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### **Definitions/Glossary**

Client: Carmona Resources

Job ID: 890-7563-1

Project/Site: Dogie Draw Ender Wiggins SDG: 2548

**Qualifiers** 

**GC VOA** 

U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

\*+ LCS and/or LCSD is outside acceptance limits, high biased.

\*1 LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

**Eurofins Carlsbad** 

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#### **Case Narrative**

Client: Carmona Resources Job ID: 890-7563-1

Project: Dogie Draw Ender Wiggins

Job ID: 890-7563-1 Eurofins Carlsbad

# Job Narrative 890-7563-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The sample was received on 1/10/2025 2:00 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 2.6°C.

#### **GC VOA**

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

#### Diesel Range Organics

Method 8015MOD\_NM: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-100114 and analytical batch 880-100138 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-100114/3-A). Percent recoveries are based on the amount spiked.

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

#### HPLC/IC

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

**Eurofins Carlsbad** 

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Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1

SDG: 2548

### **Client Sample ID: CS-1 (SURFACE)**

Date Collected: 01/10/25 06:00 Date Received: 01/10/25 14:00

Lab Sample ID: 890-7563-1

Matrix: Solid

Analyte		ounds (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/13/25 08:01	01/13/25 11:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/13/25 08:01	01/13/25 11:21	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				01/13/25 08:01	01/13/25 11:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/13/25 08:01	01/13/25 11:21	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/13/25 11:21	1
			•						
			•	MDI	Unit	D	Prenared	Analyzed	Dil Fac
Analyte		Qualifier	GC)  RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/13/25 11:43	Dil Fac
Analyte Total TPH	Result   <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die:	Result <49.9 sel Range Orga	Qualifier U	RL 49.9 (GC)		mg/Kg		<u> </u>	01/13/25 11:43	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	(GC)		mg/Kg	<u>D</u>	Prepared	01/13/25 11:43  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		<u> </u>	01/13/25 11:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9  Sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U *1	(GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 01/13/25 08:26	01/13/25 11:43  Analyzed  01/13/25 11:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9  Sel Range Orga Result <49.9	Qualifier Unics (DRO) Qualifier	(GC)		mg/Kg		Prepared	01/13/25 11:43  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  Sel Range Orga Result <49.9	Qualifier U  nics (DRO) Qualifier U *1 U *+ *1	(GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 01/13/25 08:26	01/13/25 11:43  Analyzed  01/13/25 11:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U *1 U *+ *1 U	RL 49.9  (GC)  RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/13/25 08:26 01/13/25 08:26	01/13/25 11:43  Analyzed  01/13/25 11:43  01/13/25 11:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  nics (DRO) Qualifier U *1 U *+ *1 U	RL 49.9  (GC)  RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/13/25 08:26 01/13/25 08:26 01/13/25 08:26	O1/13/25 11:43  Analyzed  O1/13/25 11:43  O1/13/25 11:43  O1/13/25 11:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U  nics (DRO) Qualifier U *1 U *+ *1 U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/13/25 08:26 01/13/25 08:26 01/13/25 08:26 Prepared	O1/13/25 11:43  Analyzed  O1/13/25 11:43  O1/13/25 11:43  O1/13/25 11:43  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  nics (DRO) Qualifier U *1 U *+ *1 U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/13/25 08:26 01/13/25 08:26 01/13/25 08:26  Prepared 01/13/25 08:26	01/13/25 11:43  Analyzed 01/13/25 11:43  01/13/25 11:43  01/13/25 11:43  Analyzed  01/13/25 11:43	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte	Result	Qualifier U  nics (DRO) Qualifier U *1 U *+ *1 U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/13/25 08:26 01/13/25 08:26 01/13/25 08:26  Prepared 01/13/25 08:26	01/13/25 11:43  Analyzed 01/13/25 11:43  01/13/25 11:43  01/13/25 11:43  Analyzed  01/13/25 11:43	Dil Fac

# **Surrogate Summary**

Client: Carmona Resources Job ID: 890-7563-1 Project/Site: Dogie Draw Ender Wiggins

SDG: 2548

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7563-1	CS-1 (SURFACE)	124	96	
890-7563-1 MS	CS-1 (SURFACE)	120	96	
890-7563-1 MSD	CS-1 (SURFACE)	125	96	
LCS 880-100108/1-A	Lab Control Sample	123	96	
LCSD 880-100108/2-A	Lab Control Sample Dup	127	94	
MB 880-100108/5-A	Method Blank	127	91	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (Surr)			
DFBZ = 1.4-Difluoroben:	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-7563-1	CS-1 (SURFACE)	80	77	
90-7563-1 MS	CS-1 (SURFACE)	86	76	
90-7563-1 MSD	CS-1 (SURFACE)	86	79	
.CS 880-100114/2-A	Lab Control Sample	90	84	
.CSD 880-100114/3-A	Lab Control Sample Dup	159 S1+	138 S1+	
/IB 880-100114/1-A	Method Blank	90	90	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1

SDG: 2548

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

Lab Sample ID: MB 880-100108/5-A

Lab Sample ID: LCS 880-100108/1-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 100111

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100108

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/13/25 08:01	01/13/25 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/13/25 08:01	01/13/25 11:00	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/13/25 0	01/13/25 11:0	00 1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/13/25 0	8:01 01/13/25 11:0	00 1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 100108

Analysis Batch: 100111 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1189 mg/Kg 119 70 - 130 Toluene 0.100 0.1138 mg/Kg 114 70 - 130 0.100 Ethylbenzene 0.1163 mg/Kg 116 70 - 130 0.200 0.2387 70 - 130 m-Xylene & p-Xylene mg/Kg 119 0.100 70 - 130 o-Xylene 0.1202 mg/Kg 120

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 100111

Lab Sample ID: LCSD 880-100108/2-A

Prep Type: Total/NA Prep Batch: 100108 Spike LCSD LCSD

	Spike	LCGD	LUGD				/orec		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	2	35	
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	2	35	
Ethylbenzene	0.100	0.1148		mg/Kg		115	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2328		mg/Kg		116	70 - 130	2	35	
o-Xylene	0.100	0.1178		mg/Kg		118	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-7563-1 MS

**Matrix: Solid** 

Analysis Batch: 100111

Client Sample ID: CS-1 (SURFACE) Prep Type: Total/NA

Prep Batch: 100108

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0992	0.1112		mg/Kg		112	70 - 130	
Toluene	< 0.00199	U	0.0992	0.1067		mg/Kg		108	70 - 130	

# **QC Sample Results**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1

SDG: 2548

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

Lab Sample ID: 890-7563-1 MS

**Matrix: Solid** 

Analysis Batch: 100111

Client Sam	nle ID: CS	-1 (SURFACE)
Onchit Gain	pic ib. oo	

Prep Type: Total/NA

Prep Batch: 100108

	Sample	Sample	<b>Spike</b>	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00199	U	0.0992	0.1108		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2238		mg/Kg		113	70 - 130
o-Xylene	<0.00199	U	0.0992	0.1142		mg/Kg		115	70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Client Sample ID: CS-1 (SURFACE)

Prep Type: Total/NA

Prep Batch: 100108

Lab Sample ID: 890-7563-1 MSD **Matrix: Solid** 

Analysis Batch: 100111

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1131		mg/Kg		113	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.1085		mg/Kg		108	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.1123		mg/Kg		112	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2271		mg/Kg		113	70 - 130	1	35
o-Xylene	<0.00199	U	0.100	0.1157		mg/Kg		115	70 - 130	1	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-100114/1-A

**Matrix: Solid** 

Analysis Batch: 100138

Client	Samn	le II	): Me	thod	Blank
Olicit	Ourip	10 11	J. 1710	uiou	Dialik

Prep Type: Total/NA

Prep Batch: 100114

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/13/25 08:26	01/13/25 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/13/25 08:26	01/13/25 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/13/25 08:26	01/13/25 10:10	1

MB MB

Surrogate	%Recovery C	Qualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90	70 - 130	01/13/25 08:26	01/13/25 10:10	1
o-Terphenyl	90	70 - 130	01/13/25 08:26	01/13/25 10:10	1

Lab Sample ID: LCS 880-100114/2-A

**Matrix: Solid** 

**Analysis Batch: 100138** 

Client Sample	ID: Lab	Control S	Sample
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Prep Type: Total/NA Prep Batch: 100114

	Spike	LCS I	LCS				%Rec	
Analyte	Added	Result (	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	887.3		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	840.1		mg/Kg		84	70 - 130	

C10-C28)

Project/Site: Dogie Draw Ender Wiggins

Limits

Client: Carmona Resources

Job ID: 890-7563-1

SDG: 2548

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

LCS LCS

Lab Sample ID: LCS 880-100114/2-A

**Matrix: Solid** 

Analysis Batch: 100138

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Batch: 100114** 

Surrogate %Recovery Qualifier

1-Chlorooctane 90 70 - 130 o-Terphenyl 84 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100114

Lab Sample ID: LCSD 880-100114/3-A **Matrix: Solid** 

**Analysis Batch: 100138** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1180	*1	mg/Kg		118	70 - 130	28	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1375	*+ *1	mg/Kg		138	70 - 130	48	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	159	S1+	70 - 130
o-Terphenvl	138	S1+	70 - 130

Lab Sample ID: 890-7563-1 MS Client Sample ID: CS-1 (SURFACE)

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 100138 **Prep Batch: 100114** Sample Sample Spike MS MS

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	821.9		mg/Kg		82	70 - 130	
Diesel Range Organics (Over	<49.9	U *+ *1	999	845.0		mg/Kg		85	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 890-7563-1 MSD Client Sample ID: CS-1 (SURFACE) **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 100138** 

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U \*1 999 818.3 82 20 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U\*+\*1 999 787.3 mg/Kg 79 70 - 130 20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	79		70 - 130

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Prep Batch: 100114

Client: Carmona Resources

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Job ID: 890-7563-1

SDG: 2548

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100105/1-A

Project/Site: Dogie Draw Ender Wiggins

**Matrix: Solid** 

Analysis Batch: 100115

Client Sample ID: Method Blank

**Prep Type: Soluble** 

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 mg/Kg 01/13/25 09:40

Lab Sample ID: LCS 880-100105/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** 

**Prep Type: Soluble** 

Analysis Batch: 100115

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 244.4 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-100105/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 100115

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 245.3 mg/Kg 90 - 110

Lab Sample ID: 880-53060-A-1-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 100115

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 248 251 511.8 105 90 - 110 mg/Kg

Lab Sample ID: 880-53060-A-1-E MSD

**Matrix: Solid** 

Analysis Batch: 100115

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 251 Chloride 248 513.7 mg/Kg 106 90 - 110 20

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1 SDG: 2548

## **GC VOA**

# Prep Batch: 100108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	5035	
MB 880-100108/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100108/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100108/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7563-1 MS	CS-1 (SURFACE)	Total/NA	Solid	5035	
890-7563-1 MSD	CS-1 (SURFACE)	Total/NA	Solid	5035	

## Analysis Batch: 100111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	8021B	100108
MB 880-100108/5-A	Method Blank	Total/NA	Solid	8021B	100108
LCS 880-100108/1-A	Lab Control Sample	Total/NA	Solid	8021B	100108
LCSD 880-100108/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100108
890-7563-1 MS	CS-1 (SURFACE)	Total/NA	Solid	8021B	100108
890-7563-1 MSD	CS-1 (SURFACE)	Total/NA	Solid	8021B	100108

### **Analysis Batch: 100160**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	Total BTEX	

## **GC Semi VOA**

# Prep Batch: 100114

<b>Lab Sample ID</b> 890-7563-1	Client Sample ID CS-1 (SURFACE)	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-100114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7563-1 MS	CS-1 (SURFACE)	Total/NA	Solid	8015NM Prep	
890-7563-1 MSD	CS-1 (SURFACE)	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 100138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	8015B NM	100114
MB 880-100114/1-A	Method Blank	Total/NA	Solid	8015B NM	100114
LCS 880-100114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100114
LCSD 880-100114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100114
890-7563-1 MS	CS-1 (SURFACE)	Total/NA	Solid	8015B NM	100114
890-7563-1 MSD	CS-1 (SURFACE)	Total/NA	Solid	8015B NM	100114

### **Analysis Batch: 100156**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Total/NA	Solid	8015 NM	

# HPLC/IC

## Leach Batch: 100105

Released to Imaging: 4/9/2025 10:23:24 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Soluble	Solid	DI Leach	
MB 880-100105/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100105/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100105/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

# **QC Association Summary**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1

SDG: 2548

# HPLC/IC (Continued)

# Leach Batch: 100105 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53060-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-53060-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### **Analysis Batch: 100115**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7563-1	CS-1 (SURFACE)	Soluble	Solid	300.0	100105
MB 880-100105/1-A	Method Blank	Soluble	Solid	300.0	100105
LCS 880-100105/2-A	Lab Control Sample	Soluble	Solid	300.0	100105
LCSD 880-100105/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100105
880-53060-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	100105
880-53060-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	100105

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# **Lab Chronicle**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1

SDG: 2548

**Client Sample ID: CS-1 (SURFACE)** 

Date Collected: 01/10/25 06:00 Date Received: 01/10/25 14:00 Lab Sample ID: 890-7563-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100108	01/13/25 08:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100111	01/13/25 11:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100160	01/13/25 11:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			100156	01/13/25 11:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100114	01/13/25 08:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100138	01/13/25 11:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	100105	01/13/25 07:53	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100115	01/13/25 10:33	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 Job ID: 890-7563-1 Project/Site: Dogie Draw Ender Wiggins SDG: 2548

## **Laboratory: Eurofins Midland**

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

Authority	Progr	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
The following analytes	are included in this report, bu	ut the laboratory is not certi	fied by the governing authority. This lis	t may include analytes
for which the agency d	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

# **Method Summary**

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1

SDG: 2548

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

**Eurofins Carlsbad** 

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# Sample Summary

Client: Carmona Resources

Project/Site: Dogie Draw Ender Wiggins

Job ID: 890-7563-1

SDG: 2548

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7563-1	CS-1 (SURFACE)	Solid	01/10/25 06:00	01/10/25 14:00

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# **Login Sample Receipt Checklist**

Client: Carmona Resources Job Number: 890-7563-1

SDG Number: 2548

Login Number: 7563 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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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## **Login Sample Receipt Checklist**

Job Number: 890-7563-1

SDG Number: 2548

Login Number: 7563 List Source: Eurofins Midland List Number: 2

List Creation: 01/13/25 08:12 AM

Creator: Laing, Edmundo

Client: Carmona Resources

Question Answer Comment

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present

COC is filled out in ink and legible.

COC is filled out with all pertinent information

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

**Eurofins Carlsbad** 

Released to Imaging: 4/9/2025 10:23:24 AM

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Phone: (505) 629-6116
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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 409679

### **QUESTIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	409679
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2428155987
Incident Name	NAPP2428155987 DOGIE DRAW E25 W25 FED COM CTB TB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2415147694] DOGIE DRAW E25 W25 FED COM CTB TB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DOGIE DRAW E25 W25 FED COM CTB TB
Date Release Discovered	10/07/2024
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 172 BBL   Recovered: 172 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A flow line connected to a water transfer pump failed resulting in a release of 171.8 bbl of produced water onto location. Recovery efforts are ongoing. The leak is isolated.

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

QUESTIONS, Page 2

Action 409679

QUESTIONS	(continued)

Operator:  MARATHON OIL PERMIAN LLC	OGRID: 372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	409679
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
F =	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Cody Swanson Steege Title: Compliance Supervisor Email: swansonste@marathonoil.com
I hereby agree and sign off to the above statement	

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

QUESTIONS, Page 3

Action 409679

**QUESTIONS** (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	409679
	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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n 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)	5080	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	49.6	
GRO+DRO (EPA SW-846 Method 8015M)	49.6	
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1	
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	01/10/2025	
On what date will (or did) the final sampling or liner inspection occur	01/10/2025	
On what date will (or was) the remediation complete(d)	01/10/2025	
What is the estimated surface area (in square feet) that will be reclaimed	0	
What is the estimated volume (in cubic yards) that will be reclaimed	0	
What is the estimated surface area (in square feet) that will be remediated	0	
What is the estimated volume (in cubic yards) that will be remediated	0	
These estimated dates and measurements are recognized to be the best guess or calculation at the	e 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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# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 409679

**QUESTIONS** (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	409679
	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.)	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	Yes	
Other Non-listed Remedial Process. Please specify	All material stayed on location no remediation activities are required.	

er 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.

Name: Cody Swanson Steege Title: Compliance Supervisor I hereby agree and sign off to the above statement Email: swansonste@marathonoil.com Date: 02/28/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 409679

**QUESTIONS** (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	409679
	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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 409679

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	409679
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	418083
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/10/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	0	
What was the total volume (cubic yards) remediated	0	
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)	none	

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: Cody Swanson Steege
Title: Compliance Supervisor
Email: swansonste@marathonoil.com
Date: 02/28/2025

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

QUESTIONS, Page 7

Action 409679

QUESTIONS (continued)

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	409679
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

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

CONDITIONS

Action 409679

### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	409679
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Remediation closure is approved.	4/9/2025
michael.buchanan	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.	4/9/2025
michael.buchanan	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. The 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.	4/9/2025
michael.buchanan	A revegetation report will not be accepted until revegetation 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.	4/9/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	4/9/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	4/9/2025