

### SITE INFORMATION

Closure Report Hudgens #001 (01.01.2008) Incident #: NPAC0801736858 Lea County, New Mexico Unit J Sec 11 T16S R36E 32.9349823°, -103.3231506°

Produced Water Release Point of Release: Valve froze and popped the ball valve releasing produced water Release Date: 01.01.2008 Volume Released: 40 Barrels of Produced Water Volume Recovered: 32 Barrels of Produced Water



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

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

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

Released to Imaging: 11/1/2024 1:32:29 PM



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October 14, 2024

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

Re: Closure Report Hudgens #001 (01.01.2008) Chevron U.S.A., Inc. Site Location: Unit J, S11, T16S, R36E (Lat 32.9349823°, Long -103.3231506°) Lea County, New Mexico

To whom it may concern:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document the Hudgens #001 site assessment activities. The site is located at 32.9349823°, -103.3231506° within Unit J, S11, T16S, R36E, in Lea County, New Mexico (Figures 1A, Figure 1B and Figure 2).

#### **1.0 Site Information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on January 1, 2008, caused by a frozen ball valve popping. According to the initial C-141, the release resulted in approximately forty (40) barrels of produced water being released and thirty-two (32) barrels of produced water recovered. The impacted area was located on pad, shown in Figure 3. A C-141 form is attached in Appendix C.

#### 2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, two water sources are within a 0.50-mile radius of the location. The closest well is approximately 0.41 miles North of the site in S11, T16S, R36E and was drilled in 2019. The well has a reported depth to groundwater of 85' feet below the ground surface (ft bgs). The second water well is approximately 0.49 miles East of the site in S12, T16S, R36E and was drilled in 2020. The well has a reported depth to groundwater of 83' feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

#### 3.0 NMAC Regulatory Criteria

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

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

#### **4.0 Site Assessment Activities**

#### Initial Site Assessment

On January 5, 2022, a third-party environmental consultant performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) auger holes (AH-1 & AH-2) were installed to total depths ranging from surface to 12" below ground surface (bgs) inside the release area. 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. See Figure 3 for the sample locations.

#### Vertical Delineation

Due to a dense rock layer and the use of hand tools, vertical delineation was not achieved in the areas of AH-1 and AH-2. Refer to Table 1.

#### Secondary Site Assessment

On July 25, 2024, Carmona Resources performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, three (3) boreholes (BH-1 through BH-3) and four (4) horizontal sample points (H-1 through H-4) were advanced to depths ranging from the surface to 5' bgs inside the area of concern. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Labs in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Figure 3 for the sample locations.

#### Vertical Delineation

Vertical delineation was achieved in the areas of BH-1 through BH-3. Refer to Table 1.

#### Horizontal Delineation

Horizontal delineation was achieved in the areas of H-1 through H-4. Refer to Table 1.

### **5.0 Remediation Activities**

Between September 16, 2024 and September 20, 2024, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on September 12, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of AH-2/BH-1 and AH-1/BH-2 were excavated to a depth of 4.25' bgs. A total of twelve (12) confirmation floor samples were collected (CS-1 through CS-12), and six (6) sidewall samples (SW-1 through SW-6) were collected 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 4500/300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.



After reviewing laboratory results, SW-2 through SW-4 showed exceedances in both TPH and Chloride concentrations. The excavation was then widened to remove contaminated material from the areas that exceeded, and samples were recollected for laboratory analysis.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material from the landowner to surface grade. A composite sample of the backfill pit material was collected for laboratory analysis on September 18, 2024, before being utilized. Refer to Table 2. Approximately 2,360 square feet of contamination was remediated, resulting in 360 cubic yards of material excavated and transported offsite for proper disposal.

### **6.0 Reclamation Activities**

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Backfill material was provided by the landowner, with their pit located at 32.946848, -103.328569. On October 9, 2024, the backfilled areas in the pasture were seeded via tractor broadcaster with the appropriate pounds of pure live seed per acre. The topsoil was ripped with a dozer onto the seed to aid the vegetation process. The seed mixture used was BLM #3 seed mix, per landowner specifications. See Figure 5 for the re-vegetation area.

#### 7.0 Conclusions

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

Sincerely, Carmona Resources, LLC

Ashton Thielke Sr. Project Manager

Conner Moehring Sr. Project Manager

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

























# **APPENDIX** A



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### Table 1 Chevron Hudgens #001 Lea County, New Mexico

Sample ID	Date	Depth		TPH	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride (mg/kg)
oumpie ib	Buto	(ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	onionae (ing/kg)
AH-2	1/5/2022	0-6"	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,350
AII-2	"	6-12"	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,510
	7/25/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	< 0.300	816
	"	2'	<10.0	29.7	16.5	46.2	<0.050	<0.050	<0.050	<0.150	< 0.300	672
BH-1		3'	<10.0	11.5	<10.0	11.5	<0.050	<0.050	<0.050	<0.150	<0.300	640
	"	4'	<10.0	12.7	<10.0	12.7	<0.050	<0.050	<0.050	<0.150	<0.300	704
	"	5'	-	-	-	-	-	-	-	-	-	864
AH-1	1/5/2022	0-6"	ND	ND	ND	ND	ND	ND	ND	ND	ND	7,400
Ап-1	"	6-12"	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,670
	7/25/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	< 0.300	576
	"	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,040
BH-2		3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	640
	"	4'	<10.0	42.5	<10.0	42.5	<0.050	<0.050	<0.050	<0.150	<0.300	816
	"	5'	-	-	-	-	-	-	-	-	-	1,360
	7/25/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
BH-3	"	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
DII-5	"	3'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
	"	4'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
H-1	7/25/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-2	7/25/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
H-3	7/25/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-4	7/25/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulate	ory Criteria <sup>A</sup>		1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons ft - feet

(BH) Bore Hole

(AH) Auger Hole

(H) Horizontal Sample

Removed

### Table 2 Chevron Hudgens #001 Lea County, New Mexico

,												
Sample ID	Date	Depth (ft)	GRO	TPH DRO	l (mg/kg) MRO	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
CS-1	9/18/2024	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	896
CS-2	9/18/2024	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	736
CS-3	9/18/2024	4.25'	<10.0	52.6	26.6	79.2	<0.050	<0.050	<0.050	<0.150	<0.300	608
CS-4	9/18/2024	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,720
CS-5	9/18/2024	4.25'	<10.0	302	120	422	<0.050	<0.050	<0.050	<0.150	<0.300	1,150
CS-6	9/18/2024	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
CS-7	9/18/2024	4.25'	<10.0	413	113	526	<0.050	<0.050	<0.050	<0.150	<0.300	1,330
CS-8	9/18/2024	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,340
CS-9	9/18/2024	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	656
CS-10	9/18/2024	4.25'	<10.0	126	83.1	209	<0.050	<0.050	<0.050	<0.150	<0.300	1,020
CS-11	9/18/2024	4.25'	<10.0	147	36.1	183	<0.050	<0.050	<0.050	<0.150	<0.300	1,020
CS-12	9/18/2024	4.25'	<10.0	22.7	<10.0	22.7	<0.050	<0.050	<0.050	<0.150	<0.300	1,490
Regulatory			1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 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 Floor Sample

### Table 2 Chevron Hudgens #001 Lea County, New Mexico

O annu la ID	Dette	Depth		TPF	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	
Sample ID	Date	(ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Chloride (mg/kg)
SW-1	9/18/2024	4.25'	<10.0	43.5	10.0	53.5	<0.050	<0.050	<0.050	<0.150	<0.300	544
SW-2	9/18/2024	4.25'	<10.0	168	110	278	<0.050	<0.050	<0.050	<0.150	<0.300	736
5₩-2	9/19/2024	4.25'	<10.0	22.6	10.8	33.4	<0.050	<0.050	<0.050	<0.150	<0.300	384
	9/18/2024	4.25'	<10.0	99.1	32.4	132	<0.050	<0.050	<0.050	<0.150	<0.300	608
SW-3	9/19/2024	4.25'	<10.0	238	210	448	<0.050	<0.050	<0.050	<0.150	<0.300	144
	9/20/2024	4.25'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.98
	9/18/2024	4.25'	<10.0	28.9	<10.0	28.9	<0.050	<0.050	<0.050	<0.150	<0.300	640
SW-4	9/19/2024	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	608
	9/20/2024	4.25'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5.03
SW-5	9/18/2024	4.25'	<10.0	22.0	<10.0	22.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
SW-6	9/18/2024	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
Backfill Sample - 1	9/18/2024	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulatory	v Criteria <sup>A</sup>		1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg
(_) Not A	naluzad											

(-) Not Analyzed

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

mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet

(SW) Sidewall Sample

Removed

## **APPENDIX B**



### **PHOTOGRAPHIC LOG**



### **PHOTOGRAPHIC LOG**



.

## PHOTOGRAPHIC LOG

Photograp	h No. 7	SW W NW N 240 240 240 300 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
Facility:	Hudgens #001	$ 270^{\circ} + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + $
County:	Lea County, New Mexico	
Description: View West, b	: backfilled and reclaimed area.	Backfill Chevron Chesapeake Hudgens 00 23 Sep 2024, 11:46:4
Photograp	h No. 8	<b>N</b> NE <b>SE S</b> 0 30 60 120 150 1 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 •
Facility:	Hudgens #001	© 91°E (T)
County:	Lea County, New Mexico	
<b>Description</b> : View East, b	ackfilled and reclaimed area.	Backfill Chevron Chesapeake Hudgens OC 23 Sep 2024, 11:47.2
Photograp	h No. 9	1+ 0+0
Facility:	Hudgens #001	Curlis & Curlis Seed sow generously Herm % F/re Mix Origin Purity Germ 30.81 Blue Grama, Variety Not Stored
County:	Lea County, New Mexico	Blue Grama, Variety Not Stated     Origin Purity     Germ     Dormant     Total Germ:     Test Date       Green Sprangletop, Van Hom     50.20%     New Mexiod2 10%     97.00%     0.00%     97.00%     0.00%     97.00%     0.00%     97.00%     0.00%     97.00%     0.00%     97.00%     0.00%     97.00%     0.00%     97.00%     0.00%     92.00%     2.004
Description: Seed mix use	: ed per landowner specs.	Inert Matter: 16.77%   Other Crop: 0.34%   Weed Seed: 0.03%   Noxious Weed: None Texas Permit: 2772   Seed.com 4500 North Prince, Clovis, NNI 88 to 258 bulk pound5.95 962-4759

## PHOTOGRAPHIC LOG

Photograph	n No. 10	SE S SW W 240 270 3
Facility:	Hudgens #001	© 207°SW (T) LAT: 32.934805 LON: -103.323247 ±13ft ▲ 3886ft
County:	Lea County, New Mexico	
Description: View South, r	reseeding operation in progress.	Chevron Hudgens
Photograp	n No. 11	SE S SW W 120 150 180 210 240 270 270 180 180 180 180 180 180 180 180 180 18
Facility:	Hudgens #001	© 205°SW (T) LAT: 32.934845 LON: -103.322766 ±137ft ▲ 3880ft
County:	Lea County, New Mexico	
Description: View South, r	reseeding operation in progress.	Chevron Hudgens
Photograpi	n No. 12	NW N 300 330 0 30 NE 60 E
Facility:	Hudgens #001	• • • • • • • • • • • • • • • • •
County:	Lea County, New Mexico	
<b>Description:</b> View North, a	area of backfill material.	Backfill Material 2407 Chevron Chesapeake Hughes #1 19 Sep 2024, 08:40:50

# **APPENDIX C**



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

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

District III

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

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

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

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Action 309507

QUESTIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	309507
	Action Type:
	[NOTIEY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites				
Incident ID (n#)	nPAC0801736858			
Incident Name	NPAC0801736858 HUDGENS #001 @ 30-025-29712			
Incident Type	Produced Water Release			
Incident Status	Remediation Plan Approved			
Incident Well	[30-025-29712] HUDGENS #001			

#### Location of Release Source

Site Name	HUDGENS #001					
Date Release Discovered	01/01/2008					
Surface Owner	Private					

#### Sampling Event General Information

Please answer all the questions in this group.					
What is the sampling surface area in square feet	4,500				
What is the estimated number of samples that will be gathered	13				
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/31/2023				
Time sampling will commence	08:00 AM				

#### Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Contact: Blake Estep #: 432-894-6038
Please provide any information necessary for navigation to sampling site	GPS: 32.934650, -103.322962

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	309507
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By Condition Condition Date 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 1/30/2024 abarnhill remediation closure samples not being accepted.

Action 309507

CONDITIONS

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

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

District III

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

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

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

QUESTIONS

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Action 383246

QUESTIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	383246
	Action Type:
	[NOTIEV] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nPAC0801736858
Incident Name	NPAC0801736858 HUDGENS #001 @ 30-025-29712
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-29712] HUDGENS #001

#### Location of Release Source

Site Name	HUDGENS #001
Date Release Discovered	01/01/2008
Surface Owner	Private

#### Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,925
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/16/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	(32.934665, -103.322711°) Carmona Resources will be onsite from 09.16.2024 – 09.19.2024 to finish excavating and collect composite confirmation samples.

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	383246
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition
		Date
abarnhill	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.	9/12/2024

CONDITIONS

Action 383246

# **APPENDIX D**







## Earth Poly 2000 ft







Page 30 of 170

Hudgens #001 (01.01.2008)

Earth PoN

2000 ft





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix (R=POD has indicates been the POD has been replaced, replaced O=orphaned, & no longer serves a C=the file is water right file.) closed)

(quarters are smallest to largest)

water right file.)	closed)			smalle	est to la	rgest)							(meters)		(In feet	)
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth		Water Column
<u>L 00135 POD4</u>		L	LE		NW	SE	11	16S	36E	656779.0	3645322.0 *	۲	43	149	75	74
<u>L 00678 POD3</u>	R	L	LE	NW	SW	SE	11	16S	36E	656684.0	3645017.0 *	•	303	146	67	79
<u>L 00678 POD4</u>	R	L	LE	NW	SW	SE	11	16S	36E	656684.0	3645017.0 *	•	303	212	160	52
<u>L 04005</u>		L	LE				11	16S	36E	656583.0	3645505.0 *	٩	311	95	75	20
<u>L 00678</u>	R	L	LE		SW	SE	11	16S	36E	656785.0	3644918.0 *	•	375	95		
<u>L 12502 POD1</u>		L	LE	SW	SE	NE	11	16S	36E	656972.2	3645642.9	٩	385	195		
<u>L 00307 S</u>		L	LE	SW	SE	NE	11	16S	36E	657075.0	3645632.0 *	٩	430	205		
<u>L 11428</u>		L	LE	SW	SE	NE	11	16S	36E	657075.0	3645632.0 *	۲	430	156		
<u>L 00135 POD3</u>		L	LE		SW	NE	11	16S	36E	656774.0	3645725.0 *	۲	434	125	78	47
<u>L 03432</u>		L	LE	NE	NE	SE	11	16S	36E	657280.0	3645428.0 *	٩	488	110	68	42
<u>L 08423</u>		L	LE	NE	NE	SE	11	16S	36E	657280.0	3645428.0 *	٩	488	120	72	48
<u>L 12097 POD1</u>		L	LE	NW	SE	NE	11	16S	36E	656972.6	3645781.6	٩	515	170		
<u>L 12088 POD1</u>		L	LE	NW	SE	NE	11	16S	36E	656964.2	3645818.4	٩	547	205		
<u>L 05717</u>		L	LE		SE	NE	11	16S	36E	657176.0	3645733.0 *	•	572	110	67	43
<u>L 05857</u>		L	LE		SE	NE	11	16S	36E	657176.0	3645733.0 *	•	572	100	65	35
<u>L 07992</u>		L	LE		SE	NE	11	16S	36E	657176.0	3645733.0 *	•	572			
<u>L 09445</u>		L	LE		SE	NE	11	16S	36E	657176.0	3645733.0 *	•	572	110		
<u>L 09471</u>		L	LE		SE	NE	11	16S	36E	657176.0	3645733.0 *	•	572	110	72	38
<u>L 01984</u>		L	LE	SE	SE	NE	11	16S	36E	657275.0	3645632.0 *	•	575	95	55	40
<u>L 04080</u>		L	LE	SE	SE	NE	11	16S	36E	657275.0	3645632.0 *	•	575	103	75	28
<u>L 04261</u>		L	LE	SE	SE	NE	11	16S	36E	657275.0	3645632.0 *	٩	575	110	94	16
<u>L 12098 POD1</u>		L	LE	NE	SW	NE	11	16S	36E	656953.1	3645861.4	•	586	170		
<u>L 00307</u>		L	LE	NW	SE	NE	11	16S	36E	657075.0	3645832.0 *	٩	600	100	50	50
<u>L 14587 POD1</u>		L	LE	SE	NW	NE	11	16S	36E	656845.3	3645945.9	•	654	165	85	80
<u>L 05922</u>		L	LE			NE	11	16S	36E	656975.0	3645926.0 *	•	654	105	70	35
<u>L 09389</u>		L	LE			NE	11	16S	36E	656975.0	3645926.0 *	۲	654	110		

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(In feet)

(meters)

(quarters are

smallest to largest)

Received by OCD: 10/22/2024 9:10:46 AM (A CLW##### in the POD suffix (R=POD has indicates been the POD has been replaced, replaced, been replaced, O=orphaned, C=the file is replaced & no longer serves a water right file.) closed)

(In feet)

(meters)

water right file.)	closed)			smalle	st to la	rgest)							(meters)		(In feet)	1
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth		Water Column
<u>L 11093</u>		L	LE			NE	11	16S	36E	656975.0	3645926.0 *	•	654	120	70	50
<u>L 14959 POD1</u>		L	LE	NW	SE	NE	11	16S	36E	657053.7	3645906.1	٠	660	217	115	102
<u>L 01038</u>		L	LE	NW	NW	NE	14	16S	36E	656691.0	3644613.0 *	٠	689	90	60	30
<u>L 12093 POD1</u>		L	LE	SE	NE	NE	11	16S	36E	656963.7	3646012.5	٠	736	170		
<u>L 03999</u>		L	LE	SE	NW	NE	11	16S	36E	656867.0	3646028.0 *	•	737	95	65	30
<u>L 08682</u>		L	LE	SE	NW	NE	11	16S	36E	656867.0	3646028.0 *	٠	737	124	70	54
<u>L 08683</u>		L	LE	SE	NW	NE	11	16S	36E	656867.0	3646028.0 *	•	737	123	70	53
<u>L 07741</u>		L	LE	NE	NW	SW	11	16S	36E	656074.0	3645405.0 *	•	745	142	78	64
<u>L 03172 POD2</u>		L	LE	NE	NW	SW	12	16S	36E	657530.5	3645494.7	•	747	210		
<u>L 09053</u>	R	L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	۲	749	175	95	80
<u>L 09054</u>	R	L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	٩	749	135	65	70
<u>L 09054 POD2</u>		L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	٩	749	135	65	70
<u>L 09195</u>		L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	٠	749	135	90	45
<u>L 09198</u>		L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *		749	135	90	45
<u>L 09330</u>		L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	٠	749	140	70	70
<u>L 09331</u>		L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	•	749	140	90	50
<u>L 09340</u>		L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	•	749	150	90	60
<u>L 09492</u>	R	L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	•	749	135	65	70
<u>L 10354</u>		L	LE	SW	NW	NE	11	16S	36E	656667.0	3646028.0 *	٢	749	120	63	57
<u>L 08960</u>		L	LE	SW	SW	NW	12	16S	36E	657477.0	3645640.0 *	٢	751	112	72	40
<u>L 11748</u>		L	LE	SW	SW	NW	12	16S	36E	657477.0	3645640.0 *	٩	751	143	73	70
<u>L 11892 POD1</u>		L	LE	SW	SW	NW	12	16S	36E	657477.0	3645640.0 *	٢	751	130	70	60
<u>L 02527</u>		L	LE		NW	SW	12	16S	36E	657584.0	3645337.0 *	•	774	110	55	55
<u>L 05182</u>		L	LE	SW	NE	NE	11	16S	36E	657069.0	3646036.0 *	٩	787	110	75	35
<u>L 15067 POD1</u>		L	LE	NW	SW	SW	12	16S	36E	657554.1	3645025.6	•	789	234	85	149
<u>L 00307 POD5</u>		L	LE	NE	NW	SW	12	16S	36E	657591.5	3645415.6	•	790	224	75	149
<u>L 00307 POD4</u>	R	L	LE	NE	NW	SW	12	16S	36E	657612.7	3645388.2	٩	807	215	70	145
<u>L 00245 POD5</u>		L	LE	NE	NE	NW	14	16S	36E	656341.5	3644624.9	٩	815	186		
<u>L 05255</u>		L	LE		NW	NE	11	16S	36E	656768.0	3646129.0 *	•	837	100	85	15

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Received by OCD: 10/22/2024 9:10:46 AM (A CLW##### in the POD suffix (R=POD has indicates been the POD has been replaced, replaced, Ine FOD sumIne FOD hasindicatesbeenthe POD has beenreplaced,replacedO=orphaned,& no longer serves aC=the file iswater right file.)closed)

replaced & no longer serves a water right file.)	O=orphaned, C=the file is closed)				ers are est to lai	rgest)							(meters)		(In feet	)
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth		Water Column
<u>L 07954</u>		L	LE		NW	NE	11	16S	36E	656768.0	3646129.0 *	•	837	120	85	35
<u>L 09653</u>		L	LE		NW	NE	11	16S	36E	656768.0	3646129.0 *		837	135	65	70
<u>L 09746</u>		L	LE		NW	NE	11	16S	36E	656768.0	3646129.0 *	۲	837	157	70	87
<u>L 09053 POD2</u>		L	LE	SW	NW	NE	11	16S	36E	656920.3	3646128.9	•	843	168	74	94
<u>L 00678 POD5</u>		L	LE		SW	SW	12	16S	36E	657589.0	3644933.0 *	•	857	126	105	21
<u>L 00678 POD5</u>	R	L	LE		SW	SW	12	16S	36E	657589.0	3644933.0 *		857	126	105	21
<u>L 04444</u>		L	LE		SW	SW	12	16S	36E	657589.0	3644933.0 *	٩	857	120	100	20
<u>L 00733</u>		L	LE		NE	NE	14	16S	36E	657194.0	3644521.0 *	٩	861	104	56	48
<u>L 00733</u>	R	L	LE		NE	NE	14	16S	36E	657194.0	3644521.0 *	۲	861	104	56	48
<u>L 12259 POD1</u>		L	LE							657629.7	3645564.1	•	862	195		
<u>L 00350 POD17</u>		L	LE	NE	SW	SW	12	16S	36E	657653.2	3645065.7	•	872	236	75	161
<u>L 12778 POD1</u>		L	LE	NW	NE	NW	14	16S	36E	656242.8	3644623.9	•	877	195		
<u>L 00307 POD2</u>		L	LE	NE	NW	SW	12	16S	36E	657683.0	3645436.0 *		883	110	55	55
<u>L 03172</u>	R	L	LE	NE	NW	SW	12	16S	36E	657683.0	3645436.0 *	٩	883	92	48	44
<u>L 04434</u>		L	LE			NW	11	16S	36E	656170.0	3645911.0 *		890	100	74	26
<u>L 06102</u>		L	LE			NW	11	16S	36E	656170.0	3645911.0 *	٩	890	100	75	25
<u>L 11693</u>		L	LE		NE	NE	11	16S	36E	657170.0	3646137.0 *	٩	917	135	69	66
<u>L 09749</u>		L	LE	SE	SW	NW	12	16S	36E	657677.0	3645640.0 *	۲	933	135	70	65
<u>L 09793</u>		L	LE	SE	SW	NW	12	16S	36E	657677.0	3645640.0 *	٩	933	135	90	45
<u>L 11742</u>		L	LE	SE	SW	NW	12	16S	36E	657677.0	3645640.0 *	٢	933	152	73	79
<u>L 05517</u>		L	LE	NE	NW	NE	11	16S	36E	656867.0	3646228.0 *	۲	937	95	75	20
<u>L 07032</u>		L	LE	NE	NW	NE	11	16S	36E	656867.0	3646228.0 *	٩	937	122	80	42
<u>L 00265</u>		L	LE	NW	NW	SW	11	16S	36E	655874.0	3645405.0 *	٢	943	120	45	75
<u>L 06498</u>		L	LE	NW	NW	NE	11	16S	36E	656667.0	3646228.0 *	۲	946	95	70	25
<u>L 14426 POD1</u>		L	LE	NE	SW	SW	12	16S	36E	657739.9	3645069.9	•	955	226	70	156
L 06322 POD2		L	LE	NW	NE	NE	11	16S	36E	657069.0	3646236.0 *	٢	978	144	65	79
<u>L 04099</u>		L	LE	NE	NE	NW	11	16S	36E	656465.0	3646220.0 *	۲	990	95	74	21
<u>L 05808</u>		L	LE	NE	NE	NW	11	16S	36E	656465.0	3646220.0 *	۲	990	116	85	31
<u>L 00135</u>		L	LE	SW	SW	NW	11	16S	36E	655868.0	3645609.0 *	۲	994	98		

August 20, 2024 02:13 PM MST

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<b>Received by OC</b> (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,	024 9:J	10:46 Al	(quart	ers are est to la:								(meters)		Page	34 of 170
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	x	Y	Мар	Distance	Well Depth	Depth Water	Water Column
<u>L 00135</u>	R	L	LE	SW	SW	NW	11	16S	36E	655868.0	3645609.0 *	•	994	98		
<u>L 00135 POD5</u>		L	LE	SW	SW	NW	11	16S	36E	655868.0	3645609.0 *	٩	994	146	58	88

Average Depth to Water: 74 feet

Minimum Depth: 45 feet

Maximum Depth: 160 feet

### Record Count: 86

**UTM Filters (in meters):** Easting: 656810.89 Northing: 3645292.29 **Radius:** 1000

\* UTM location was derived from PLSS - see Help

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

Released to Imaging: 11/1/2024 1:32:29 PM



WELL RECORD & LOG **OFFICE OF THE STATE ENGINEER** 

www.ose.state.nm.us

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Z	OSE POD N	O. (WELL	NO.) 63.54	187 Oliv	WELL TAG ID NO 22/A8			OSE FILE NO	<sup>(s).</sup> 14587		
ATIC	WELL OWN	VER NAME	E(S)		1 4 21 170			PHONE (OPTI			
OC/			SAILY	oliv	45				,		
	WELL OWN		and ADDIG555	$\cup$				сптү		STATE	ZIP
GENERAL AND WELL LOCATION		PO	Box 667			<u> </u>		Louing	tor	NM	88260
a a	WELL			DEGREES	MINUTES	SECON	DS				•
AL /	LOCATI		LATITUDE	<u>32</u>	56	Z6,	0 N	]	REQUIRED: ONE TEN	TH OF A SECOND	
<b>HER</b>	(FROM G	PS)	LONGITUDE	03	19	20.		* DATUM REG	QUIRED: WGS 84		
GE	DESCRIPT	ION RELA	TING WELL LOCATIO	N TO STREET AD	DRESS AND COMMON	LANDMA	RKS – PLS	S (SECTION, TO	WNSHЛP, RANGE) WI	HERE AVAILABLE	
-	1 100	19ton	Country	Club	Aller Dr.						
	LICENSE N	/	NAME OF LICEN	SED DRILLER				····	NAME OF WELL DE	RILLING COMPANY	
]	147	7	Kole	IT MAU	cik				m	tu	
İ	DRILLING S	-	DRILLING ENDE	D DEPTH OF C	OMPLETED WELL (F7	r)	BORE HOL	E DEPTH (FT)	· · ·	ST ENCOUNTERED (F	Т)
	1-23	- 17	1-24-19	· _ /	65		16	5	89	~	
z	COMPLETE	D WELL IS	S: ARTESIAN	DRY HO	DLE SHALLO	W (UNCON	(FINED)		STATIC WATER LE	VEL IN COMPLETED W	/ELL (FT)
0E	DRILLING F	LUID:	AIR	MUD	ADDITIV	ES – SPECI	ſFY:		<u> </u>		
2. DRILLING & CASING INFORMATION	DRILLING N	METHOD:	ROTARY	HAMM		00L	Отнен	R-SPECIFY:			
NFO	DEPTH	(feet bgl	) BORE HOL	E CASINO	G MATERIAL AND	OR		· · · · ·	0.000		
Į D	FROM	то			GRADE			SING ECTION	CASING INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE
ASH			(inches)		e each casing string, e sections of screen)	and	T (add coupli	YPE ing diameter)	(inches)	(inches)	(inches)
\$ C	0	125		SAR	26-160 AS		SL	P	5"	-4	RIANL
DN N	125	165	5 93	SOQ-	<u>26-160 ps;</u> 21-200 ps;		SL.	P	5"	4	1025
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						·					
<u> </u>	DEPTH	(feet bgl)	BORE HOLI	3 T.	IST ANNULAR SE		ERIAL AT		AMOUNT		
M	FROM	то	DIAM. (inche		VEL PACK SIZE-I				(cubic feet)	METHO PLACE	
ANNULAR MATERIAL	0	20	978	Bento	whe Holen	Inco M	6.00	30	17	MAnn	1
LAM	20	165	978	18"	AVE!	9 4	4.3	- 0	2,5 ter		
AR										1 Information	
m						···•					
					·····			<u> </u>			
	OSE INTERI	NAL USE				<u>.</u>		WR-20	WELL RECORD &	LOG (Version 06/3	<u>0/17)</u>
FILE		1455	3+	····	POD NO.	1	·	TRN N		8'+	
LOC	ATION U	<u>25-</u>	362-11	a.  .	Ч		W	/ELL TAG ID	NO. 2214	A PAGE	1 OF 2

DEFINIT (Res hg)     THICKNESS     CCUCIDE AND TYPE OF MATERIAL ENCOUNTEED. INCLUEE WATER BEARING CAVITIES OR REACTURE ZONES (DEW MATER (DEW)     WATER (PST/NOT)     PST/NATED (WATER (PST/NOT)     PST/NATED (WATER)     PST/NATED (PST/NOT)     PST/NATED (WATER)     PST/NATED (PST/NOT)     PST/NATED (WATER)     PST/NAT							
O     I <thi< th="">     I     I     I</thi<>					INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE	BEARING?	YIELD FOR WATER- BEARING
Image: state sta		0		1	tonc. il	Y Ø	
30     35     5     SAM     Y     Ø       45     165     120     Red Spud     Willington     Y     N       45     1     N     Y     N     Y     N       47     N     Y     N <td></td> <td><math>\overline{1}</math></td> <td>30</td> <td>29</td> <td>CALCH! PACI</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td> </td>		$\overline{1}$	30	29	CALCH! PACI	· · · · · · · · · · · · · · · · · · ·	
35     45     10     Cytostore     v     Ø       45     12.0     Red Stave Willhostore     Stringer S     Ø     N       45     12.0     Red Stave Willhostore     Stringer S     Ø     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y     N       9     N     Y     N     Y		30		5	Stand	Y Ø	
45     16.5     12.0     Red Saw Willmester Stringer S     CP     N       9     1	Ì			10	( Mestone)	Y OP	
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CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER     AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:     Image: Imag	5. TESI	PRINT NAM	E(S) OF DR	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION OTHER TH	AN LICENSEE:
FILE NO.     L - 1458     POD NO.     TRN NO.     G35487	6. SIGNATURE	CORRECT #	ECORD OF	THE ABOVE D DER WITHIN 34	ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R DAYS AFTER COMPLETION OF WELL DRILLING:	ECORD WITH THE STA $1-24-19$	S A TRUE AND TE ENGINEER
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# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NO	•	•		WELL TAG ID N			OSE FILE NO(	-		<u>.</u>	
NO	L-1506	67 POD1			20D4	4E		L-15	5067			
<b>GENERAL AND WELL LOCATION</b>	WELL OWNE							PHONE (OPTIC	ONAL)			
ĕ	Keri Arı											
IL	WELL OWNE		ADDRESS					CITY Loving	ton	state NM	ZIP 88260	
WE	PO Bo	0X 234						LOVING			00200	
	WELL			GREES	MINUTES	SECO	v					
AL /	LOCATIO	N LAT	ITUDE	32	55	55	.76 <sub>N</sub>		Y REQUIRED: ONE TENTH OF A SECOND			
IER	(FROM GP	S)	IGITUDE 1	03	18	53	.28 W	* DATUM REC	QUIRED: WGS 84			
Ē	DESCRIPTIC	ON RELATIN	G WELL LOCATION TO	STREET ADD	RESS AND COMM	ON LAND	IARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	IERE AVAILABLE	3	
	Tract A	A in SW/4	1 of Section 12, 7	Township	16S, Range	36E						
	LICENSE NO	).	NAME OF LICENSED	DRILLER					NAME OF WELL DR	ULLING COMPAN	Y	
	WD1	044	Alan G. Eade	S					Eades Drilling	& Pump Se	ervice	
	DRILLING ST	TARTED	DRILLING ENDED	DEPTH OF CO	OMPLETED WELL	(FT)		LE DEPTH (FT)	DEPTH WATER FIR		ED (FT)	
	12-28-	2020	12-29-2020		234		2	34 ~85				
					LE 🔽 SHALI	OW (IDIO		STATIC WATER LEVEL IN COMPLETED WELL (FT)				
Z	COMPLETED	D WELL IS:	ARTESIAN	DRY HO						~83		
DIT	DRILLING FI	LUID:	AIR -	MUD.	ADDIT	IVES – SPE	CIFY:			· · · · · · · · · · · · · · · · · · ·		
CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	🗍 намме	R CABLE	E TOOL	🗍 ОТНЕ	R – SPECIFY:			<i>.</i> .	
NFO	DEPTH (feet bgl) BORE HOLE CASING MATERIAL AND/OR							SINC	CASING	CASING W	ALL SLOT	
5	FROM	то	DIAM	<i></i>	GRADE		1	ASING NECTION	INSIDE DIAM.	THICKNE	SS SIZE	
VSID			(inches)		each casing strin sections of scree		T (add coup	YPE ling diameter)	(inches)	(inches)	(inches)	
& C	0	20	9.875		PVC SLIP.			PJOINT	5.135	.214		
Ş	20	174	8.75					PJOINT	5.135	.214		
DRILLING	174	234	8.75		PVC SCREEN		SLI	PJOINT	5.135	.214	.020	
DRI												
5.]												
	DEPTH	(feet hal)		1	IST ANNULAR	SFAL M	ATERIAL A		AMOUNT		ETHOD OF	
E	FROM	TO	BORE HOLE DIAM. (inches)		VEL PACK SIZ				(cubic feet)	1	ACEMENT	
RIA		20	9.875		BENTONITE	CHIPS - F	IYDRATEI	,	7	GR	AVITY FED	
ANNULAR MATERIAL	20	234	8.75			RAVEL			. 57		AVITY FED	
RM						. '						
<b>ILA</b>												
INN										· · ·		
3. A)												
FOR	OSE INTER	NAL USE						WR-2	0 WELL RECORD	& LOG (Versio	n 06/30/17)	
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LOC	ATION	Om			. 133			WELL TAG I	DNO. 200	NE	PAGE 1 OF 2	

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	DEPTH () FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WAT	ID TYPE OF MAT ER-BEARING CA pplemental sheets	VITIES C	OR FRAC	TURE ZONI	S	WAT BEARI (YES /	NG?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	1	<u></u>	· · · · ·	TOP S	OIL			s	Y 50	N	
	1	17	16		CALI					Y	N	
	17	21	4	N - 1 N - 10 - 10 - 10 - 10 - 10 - 10 -	SANDS			<u></u>		Y		-
	21	85	64		SAN					-	N	
	85	190	105	······	SAN					Y V	N	see note below
		· · · ·						· · ·			N	
ILL	190	234	44		SAND & C					$\Theta$	N	see note below
4. HYDROGEOLOGIC LOG OF WELL	234	-	-		RED C	LAY				Y	N	·
OF										Y	N	
ro							<b>2</b> 1 <b>2</b> 1 <b>3 2</b> 12 1			Y	N	
BIC										Y	N	
IO										Y	N	
GEO										Y	N	
NO I										Y	N	
HYL									·	Y	N	
4										Y	N	
										Y	N	······································
										Y	N	· · · · · · · · · · · · · · · · · · ·
				· · · · · · · · · · · · · · · · ·	·····					Y	N	
					, , . <b></b>				-	Y	N	
										Y	N	
										Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:				тот.	AL ESTIM	ATED	
	PUMP     AIR LIFT     BAILER     OTHER - SPECIFY:     see note below     WEL								LL YIELD	(gpm):	unknown	
NO	WELL TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.											
NISI	MISCELLA	NEOUS INF	FORMATION:									•
PER	Eades I	Drilling &	Pump Service	e did not test pur	p this well to a	determi	ne the i	maximum	yield	of the we	ell or e	ach
) SU	water b	earing st	rata. Howeve	r, the water beari	ng zones are o							
: RIC	perform	ance of t	he 3 HP pum	p installed in this	well.							
5. TEST; RIG SUPERVISION	PRINT NAM	(E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PRC	VIDED ONSITE S	SUPERVI	SION OF	WELL CON	STRU	CTION OT	HER TH	AN LICENSEE
5. T							51011 01					
  .	THE INDE	SIGNED 1	FRERV CEDTIE	IES THAT, TO THE E	EST OF HIS OP	HERKN		E AND BEI	1FF T	HE EUBEC		S A TRUE AND
RE	CORRECT F	RECORD O	F THE ABOVE D	ESCRIBED HOLE AN	ID THAT HE OR	SHE WIL	L FILE T					
UTU	AND THE P	ERMIT HO	LDER WITHIN 3	0 DAYS AFTER COM	PLETION OF WE	LL DRIL	LING:		• •	1		
6. SIGNATURE		M.	Gun	in france					-			
6. SI		llan	ade	-bol ALAN	V EADE	ĨS –			DI	- 11-	202	2/
		SIGNAT	UBE OF ORTILLE	B / PRINT SIGNEE	NAME					I	DATE	
			- Com	~				WD 20 WF			<u> </u>	nion 06/20/2017
	E NO.		167-P	nN.	POD NO.	1	·	TRN NO.		$2000 \times 10$		sion 06/30/2017)
		$\sum O$	_	6.12.13			WELL	TAG ID NO.	<u>q</u> 2 2	-004	$\frac{2}{7}$	PAGE 2 OF 2
	F	$-\sqrt{N}$			✓		بلابلانا ٢٢	THU ID NO.				1

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# Hugens #001





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New Mexico Oil Conservation Division

## **APPENDIX E**



Received by OCD: 10/22/2024 9:10:46 AM

# 2 3 4 5 6 7 8 9 10 11 12 13

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

## Laboratory Job ID: 880-9962-1

Client Project/Site: Hudgens #001 (9681)

## For:

Etech Environmental & Safety Solutions PO BOX 62228 Midland, Texas 79711

Attn: Brandon Wilson

RAMER

Authorized for release by: 1/13/2022 8:23:52 AM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Visit us at: www.eurofinsus.com/Env Released to Imaging: 11/1/2024 1:32.29 PM

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The

Expert

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	Definitions/Glossary	
	nvironmental & Safety Solutions udgens #001 (9681)	Job ID: 880-9962-1
Qualifiers		
GC VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC	······································	
Qualifier	Qualifier Description	
	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)	
MCL	Limit of Quantitation (DoD/DOE) 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	

TNTC Too Numerous To Count

.

4

5

#### Job ID: 880-9962-1

#### Job ID: 880-9962-1

#### Laboratory: Eurofins Midland

#### Narrative

Job Narrative 880-9962-1

#### Receipt

The samples were received on 1/7/2022 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was  $5.4^{\circ}$ C

#### GC VOA

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

#### GC Semi VOA

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**

Job ID: 880-9962-1

Client: Etech Environmental & Safety Solutions
Project/Site: Hudgens #001 (9681)

## **Client Sample ID: Auger Hole 1**

Date Collected: 01/05/22 16:08 Date Rece

## Lab Sample ID: 880-9962-1

Matrix: Solid

Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00198           <0.00198								
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	<0.00198	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene m-Xylene & p-Xylene		U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
m-Xylene & p-Xylene		U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
o-Xylene	<0.00396	U	0.00396		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
Surrogate	%Recovery		Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				01/07/22 14:31	01/11/22 00:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130				01/07/22 14:31	01/11/22 00:44	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/11/22 12:59	1
Method: 8015 NM - Diesel Range (	Organics (DR	0) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/11/22 14:19	1
Method: 8015B NM - Diesel Range	• · ·								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 17:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 17:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/07/22 14:36	01/08/22 17:52	1
o-Terphenyl	91		70 - 130				01/07/22 14:36	01/08/22 17:52	1
Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7400		49.9		mg/Kg	_		01/12/22 14:58	10

Xylenes, Total <0.00402 U 0.00402 mg/Kg 01/07/22 14:31 01/11/22 01:04 Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 4-Bromofluorobenzene (Surr) 123 70 - 130 01/07/22 14:31 01/11/22 01:04

**Eurofins Midland** 

#### Released to Imaging: 11/1/2024 1:32:29 PM

1

1

Limits

70 - 130

RL

RL

49.9

RL

49.9

49.9

49.9

Limits

70 - 130

70 - 130

0.00402

MDL Unit

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Job ID: 880-9962-1

## Project/Site: Hudgens #001 (9681)

Client: Etech Environmental & Safety Solutions

Method: Total BTEX - Total BTEX Calculation

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

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

<49.9 U

%Recovery Qualifier

80

91

84

<0.00402 U

#### **Client Sample ID: Auger Hole 1** Date Collected: 01/05/22 16:10

Date Received: 01/07/22 13:05

Sample Depth: 6-12"

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Lab Sample ID: 880-9962-2 Matrix: Solid

Analyzed

01/11/22 01:04

Analyzed

01/11/22 12:59

Analyzed

01/11/22 14:19

Analyzed

01/08/22 18:12

Lab Sample ID: 880-9962-3

Prepared

01/07/22 14:31

Prepared

Prepared

Prepared

01/07/22 14:36

D

D

D

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

01/07/22 14:36	01/08/22 18:12	1	
01/07/22 14:36	01/08/22 18:12	1	1
Prepared	Analyzed	Dil Fac	
01/07/22 14:36	01/08/22 18:12	1	
01/07/22 14:36	01/08/22 18:12		

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	5670		50.0		mg/Kg			01/12/22 15:08	10

#### **Client Sample ID: Auger Hole 2**

Date Collected: 01/05/22 16:12 Date Received: 01/07/22 13:05 Sample Depth: 0-6"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				01/07/22 14:31	01/11/22 02:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130				01/07/22 14:31	01/11/22 02:26	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/11/22 12:59	1
Method: 8015 NM - Diesel Ran	ge Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/11/22 14:19	1

**Eurofins Midland** 

#### **Client Sample Results**

Job ID: 880-9962-1

Matrix: Solid

5

Lab Sample ID: 880-9962-3

Lab Sample ID: 880-9962-4

Matrix: Solid

Client: Etech Environmental & Safety Solutions
Project/Site: Hudgens #001 (9681)

#### Client Sample ID: Auger Hole 2

Date Collected: 01/05/22 16:12 Date Received: 01/07/22 13:05

Sample Depth: 0-6"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:53	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/07/22 14:36	01/08/22 18:53	1
o-Terphenyl	91		70 - 130				01/07/22 14:36	01/08/22 18:53	1

wethod: 300.0 - Anions, ion Chron	latography - S	eldulo							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6350		49.7		mg/Kg			01/12/22 15:18	10

#### Client Sample ID: Auger Hole 2

Date Collected: 01/05/22 16:14 Date Received: 01/07/22 13:05

Sample Depth: 6-12"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				01/07/22 14:31	01/11/22 02:46	1
1,4-Difluorobenzene (Surr)	111		70 - 130				01/07/22 14:31	01/11/22 02:46	1
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/11/22 12:59	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/11/22 14:19	1
_ Method: 8015B NM - Diesel Rang	ae Organics (D	RO) (GC)							
Analyte	· · ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 Chloropotono			70 120				01/07/00 14:06	01/09/00 10:10	

		Client	Sample R	esults	;					
Client: Etech Environmental & Saf Project/Site: Hudgens #001 (9681)								Job ID: 880	-9962-1	2
Client Sample ID: Auger Ho	le 2						Lab Sa	mple ID: 880-	9962-4	
Date Collected: 01/05/22 16:14								Matri	x: Solid	
Date Received: 01/07/22 13:05 Sample Depth: 6-12"										
_ Method: 300.0 - Anions, Ion Chr	romatography -	Soluble								5
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3510		24.8		mg/Kg			01/12/22 15:28	5	
										8
										9
										1

Eurofins Midland

Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681)

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

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Client Sample ID (70-130) (70-130) Lab Sample ID 880-9960-A-1-A MS Matrix Spike 108 108 880-9960-A-1-B MSD Matrix Spike Duplicate 103 99 880-9962-1 Auger Hole 1 131 S1+ 93 880-9962-2 Auger Hole 1 123 84 880-9962-3 Auger Hole 2 138 S1+ 107 880-9962-4 Auger Hole 2 139 S1+ 111 LCS 880-16279/1-A Lab Control Sample 101 99 LCSD 880-16279/2-A Lab Control Sample Dup 105 95 MB 880-16220/5-A Method Blank 98 106 MB 880-16279/5-A Method Blank 108 97

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

				Percent Surrogate Recover
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-9942-A-1-C MS	Matrix Spike	77	76	
880-9942-A-1-D MSD	Matrix Spike Duplicate	85	85	
880-9962-1	Auger Hole 1	80	91	
880-9962-2	Auger Hole 1	80	91	
880-9962-3	Auger Hole 2	78	91	
880-9962-4	Auger Hole 2	90	105	
LCS 880-16281/2-A	Lab Control Sample	103	106	
LCSD 880-16281/3-A	Lab Control Sample Dup	108	112	
MB 880-16281/1-A	Method Blank	82	98	

Surrogate Legend 1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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#### Job ID: 880-9962-1

Prep Type: Total/NA

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# 6

#### Prep Type: Total/NA

Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681)

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

Lab Sample ID: MB 880-16220/5-A	λ									Client S	Sample ID: Metho	od Blank
Matrix: Solid											Prep Type:	Total/NA
Analysis Batch: 16342											Prep Batc	h: 1 <mark>6220</mark>
		MB	MB									
Analyte		sult		RL		MDL			D	Prepared	Analyzed	Dil Fac
Benzene	<0.00		U	0.00200			mg/Kg			01/07/22 09:17		1
Toluene	<0.00	200	U	0.00200			mg/Kg			01/07/22 09:17	7 01/10/22 10:46	1
Ethylbenzene	<0.00	200	U	0.00200			mg/Kg			01/07/22 09:17	7 01/10/22 10:46	1
m-Xylene & p-Xylene	<0.00	400	U	0.00400			mg/Kg			01/07/22 09:17	01/10/22 10:46	1
o-Xylene	<0.00	200	U	0.00200			mg/Kg			01/07/22 09:17	01/10/22 10:46	1
Xylenes, Total	<0.00	400	U	0.00400			mg/Kg			01/07/22 09:17	01/10/22 10:46	1
		ΜВ	МВ									
Surrogate	%Reco	very	Qualifier	Limits						Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		98		70 - 130						01/07/22 09:11	7 01/10/22 10:46	1
1,4-Difluorobenzene (Surr)		106		70 - 130						01/07/22 09:17	7 01/10/22 10:46	1
Lab Sample ID: MB 880-16279/5-A										Client S	Sample ID: Metho	od Blank
Matrix: Solid											Prep Type:	
Analysis Batch: 16342											Prep Batc	
Analysis Batch. 10342		мв	МВ								Frep Date	11. 102/5
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Prepared	Analyzed	Dil Fac
Benzene	<0.00	200	U	0.00200			mg/Kg		_	01/07/22 14:31	01/10/22 21:39	1
Toluene	<0.00	200	U	0.00200			mg/Kg			01/07/22 14:37	01/10/22 21:39	1
Ethylbenzene	<0.00	200	U	0.00200			mg/Kg			01/07/22 14:31	01/10/22 21:39	1
m-Xylene & p-Xylene	<0.00	400	U	0.00400			mg/Kg			01/07/22 14:32	01/10/22 21:39	1
o-Xylene	<0.00			0.00200			mg/Kg			01/07/22 14:32	01/10/22 21:39	1
Xylenes, Total	<0.00	400	U	0.00400			mg/Kg			01/07/22 14:31	01/10/22 21:39	1
		ΜВ	МВ									
Surrogate	%Reco		Qualifier	Limits						Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	////	108	Quaimer	<u></u>						01/07/22 14:3		1
1,4-Difluorobenzene (Surr)		97		70 - 130 70 - 130						01/07/22 14:3		1
		97		70 - 150						01/01/22 14.5	1 01/10/22 21.39	,
Lab Sample ID: LCS 880-16279/1-	A								С	lient Sample	D: Lab Control	Sample
Matrix: Solid											Prep Type:	Total/NA
Analysis Batch: 16342											Prep Batc	h: 16279
-				Spike	LCS	LCS					%Rec.	
Analyte				Added	Result	Qua	lifier	Unit		D %Rec	Limits	
Benzene				0.100	0.09238			mg/Kg		92	70 - 130	
Toluene				0.100	0.08627			mg/Kg		86	70 <sub>-</sub> 130	
Ethylbenzene				0.100	0.08328			mg/Kg		83	70 - 130	
m-Xylene & p-Xylene				0.200	0.1716			mg/Kg		86	70 <sub>-</sub> 130	
o-Xylene				0.100	0.08407			mg/Kg		84	70 - 130	
0-Aylene												
U-Aylene	LCS	LCS										
	LCS %Recovery			Limits								
				Limits 70 - 130								
Surrogate	%Recovery											
Surrogate	% <b>Recovery</b> 101 99			70 - 130				C!	ont	Sample ID:	ab Control Son	
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-16279/2	% <b>Recovery</b> 101 99			70 - 130				Cli	ent	Sample ID:	Lab Control San Prep Type:	
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-16279/2 Matrix: Solid	% <b>Recovery</b> 101 99			70 - 130				Cli	ent	Sample ID:	Prep Type:	Total/NA
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-16279/2	% <b>Recovery</b> 101 99			70 - 130 70 - 130		100	D	Cli	ent	Sample ID:	Prep Type: Prep Batc	Total/NA h: 16279
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-16279/2 Matrix: Solid	% <b>Recovery</b> 101 99			70 - 130	LCSD Result			Cli Unit	ent	Sample ID:	Prep Type:	Total/NA h: 16279 RPD

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Job ID: 880-9962-1

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Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681) Job ID: 880-9962-1

Prep Type: Total/NA

Prep Type: Total/NA

**Client Sample ID: Matrix Spike Duplicate** 

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

Lab Sample ID: LCSD 880-1	6279/2-A					Clie	nt Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid									Prep 1	Type: Tot	tal/NA
Analysis Batch: 16342									Prep	Batch:	16279
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene			0.100	0.08649		mg/Kg		86	70 - 130	0	35
Ethylbenzene			0.100	0.08511		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1746		mg/Kg		87	70 - 130	2	35
o-Xylene			0.100	0.08698		mg/Kg		87	70 <sub>-</sub> 130	3	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 - 130								
_ Lab Sample ID: 880-9960-A	-1-A MS							Client	Sample ID	: Matrix	Spike

#### Lab Sample ID: 880-9960-A-1-A MS Matrix: Solid Analysis Batch: 16342

Analysis Batch: 16342									Prep	p Batch: '	16279
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00198	U F1	0.100	0.06756	F1	mg/Kg		68	70 - 130		
Toluene	<0.00198	U F1	0.100	0.05938	F1	mg/Kg		59	70 - 130		
Ethylbenzene	<0.00198	U F1	0.100	0.05428	F1	mg/Kg		54	70 - 130		
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1102	F1	mg/Kg		55	70 - 130		
o-Xylene	<0.00198	U F1	0.100	0.05533	F1	mg/Kg		55	70 - 130		

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

#### Lab Sample ID: 880-9960-A-1-B MSD Matrix: Solid Analysis Batch: 16342

1,4-Difluorobenzene (Surr)

Analysis Batch: 16342									Prep	Batch:	16279
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.0998	0.07272		mg/Kg		73	70 - 130	7	35
Toluene	<0.00198	U F1	0.0998	0.06335	F1	mg/Kg		63	70 - 130	6	35
Ethylbenzene	<0.00198	U F1	0.0998	0.05857	F1	mg/Kg		58	70 - 130	8	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1183	F1	mg/Kg		59	70 - 130	7	35
o-Xylene	<0.00198	U F1	0.0998	0.05836	F1	mg/Kg		58	70 - 130	5	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								

70 - 130

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

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Lab Sample ID: MB 880-16281/1-A Matrix: Solid Analysis Batch: 16324	ів мв					Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	Total/NA
	ult Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics <5	.0 U	50.0		mg/Kg		01/07/22 14:36	01/08/22 13:27	1
(GRO)-C6-C10								

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Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681)

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ethod: 8015B NM - Diesel Ra	ange Of	yan		0) (00) (00	minue	-u)								
Lab Sample ID: MB 880-16281/1-A Matrix: Solid Analysis Batch: 16324											Client Sa		Method ype: To Batch:	tal/NA
		ΜВ	MB											
Analyte				RL		MDL	Unit		D	Pr	epared	Analyz	ed	Dil Fac
Diesel Range Organics (Over C10-C28)	<	50.0	U	50.0			mg/Kg			01/07	7/22 14:36	01/08/22	13:27	1
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0			mg/Kg			01/07	7/22 14:36	01/08/22	13:27	1
		ΜВ	МВ											
Surrogate	%Reco	very	Qualifier	Limits						Pi	repared	Analyz	ed	Dil Fac
1-Chlorooctane		82		70 - 130					-	01/0	7/22 14:36	01/08/22	13:27	1
p-Terphenyl		98		70 - 130						01/0	7/22 14:36	01/08/22	13:27	1
Lab Sample ID: LCS 880-16281/2-4	λ								CI	ient	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid													ype: To	
Analysis Batch: 16324													Batch:	16281
				Spike		LCS						%Rec.		
Analyte				Added	Result	Qual	ifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	792.8			mg/Kg			79	70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over C10-C28)				1000	1073			mg/Kg			107	70 - 130		
	LCS													
	203	LCS												
Surrogate %	Recovery		lifier	Limits										
			lifier	Limits 70 - 130										
Surrogate % 1-Chlorooctane o-Terphenyl	Recovery		lifier											
1-Chlorooctane	5 <b>Recovery</b> 103 106		lifier	70 - 130				Cli	ent	Sam	ple ID: L	ab Contro	l Samp	le Dup
1-Chlorooctane o-Terphenyl	5 <b>Recovery</b> 103 106		lifier	70 - 130				Cli	ent	Sam	ple ID: La	ab Contro Prep T		
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid	5 <b>Recovery</b> 103 106		lifier	70 - 130				Cli	ent	Sam	ple ID: La	Prep T	ype: To	tal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-16281/3	5 <b>Recovery</b> 103 106		lifier	70 - 130	LCSD	LCS	D	Cli	ent	Sam	ple ID: L	Prep T		tal/NA 16281
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324	5 <b>Recovery</b> 103 106		lifier	70 - 130 70 - 130	LCSD Result			Cli Unit	ent	Sam	ple ID: La %Rec	Prep T Prep	ype: To	tal/NA 16281 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Analyte Gasoline Range Organics	5 <b>Recovery</b> 103 106		lifier	70 - 130 70 - 130 Spike					ent s		-	Prep T Prep %Rec.	ype: To Batch:	tal/NA 16281 RPC Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Analyte	5 <b>Recovery</b> 103 106		lifier	70 - 130 70 - 130 Spike Added	Result			Unit	ent :		%Rec	Prep T Prep %Rec. Limits	ype: To Batch: RPD	<b>16281</b> <b>16281</b> <b>RPE</b> <u>Limi</u> 20
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	5 <b>Recovery</b> 103 106	Qual		70 - 130 70 - 130 <b>Spike</b> Added	<b>Result</b> 876.3			Unit mg/Kg	ent :		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 10	<b>tal/NA</b> <b>16281</b> <b>RPE</b> Limit
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Recovery 103 106 -A	Qual		70 - 130 70 - 130 <b>Spike</b> Added	<b>Result</b> 876.3			Unit mg/Kg	ent s		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 10	tal/NA 16281 RPD Limit
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	.Recovery 103 106 -A LCSD	Qual		70 - 130 70 - 130 Spike Added 1000	<b>Result</b> 876.3			Unit mg/Kg	ent :		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 10	tal/NA
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate %	Recovery 103 106 -A LCSD Recovery	Qual		70 - 130 70 - 130 Spike Added 1000 1000	<b>Result</b> 876.3			Unit mg/Kg	ent s		%Rec	Prep T Prep %Rec. Limits 70 - 130	ype: To Batch: RPD 10	tal/NA 16281 RPD Limit
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate % I-Chlorooctane p-Terphenyl	<b>Recovery</b> 103 106 -A <i>LCSD</i> <i>Recovery</i> 108 112	Qual		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 876.3			Unit mg/Kg	ent :		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130 70 - 130	ype: To Batch: <u>RPD</u> 10 9	0tal/NA 16281 RPE Limi 20 20
I-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate % I-Chlorooctane D-Terphenyl Lab Sample ID: 880-9942-A-1-C MS	<b>Recovery</b> 103 106 -A <i>LCSD</i> <i>Recovery</i> 108 112	Qual		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 876.3			Unit mg/Kg	ent :		<b>%Rec</b>	Prep T           %Rec.           Limits           70 - 130           70 - 130	ype: To Batch: <u>RPD</u> 10 9	<b>Spike</b>
I-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate % I-Chlorooctane -Terphenyl Lab Sample ID: 880-9942-A-1-C MS Matrix: Solid	<b>Recovery</b> 103 106 -A <i>LCSD</i> <i>Recovery</i> 108 112	Qual		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 876.3			Unit mg/Kg	ent :		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: To Batch: <u>RPD</u> 10 9 : Matrix ype: To	Spike
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate % 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-9942-A-1-C MS Matrix: Solid	Ecsp <i>LCSD</i> <i>Recovery</i> 108 108 112 5	Qual	D Diffier	70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 1000 70 - 130 70 - 130	<b>Result</b> 876.3 1179	Qual		Unit mg/Kg	ent s		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep T Prep	ype: To Batch: <u>RPD</u> 10 9	Spike
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate % 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-9942-A-1-C MS Matrix: Solid Analysis Batch: 16324	Recovery 103 106 -A -A <i>LCSD</i> <i>Recovery</i> 108 112 S Sample	Qual LCSI Qual Sam	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 876.3 1179 MS	Qual	ifier	Unit mg/Kg mg/Kg	ent	<u>D</u> .	%Rec 88 118 Client S	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 %Rec.	ype: To Batch: <u>RPD</u> 10 9 : Matrix ype: To	spike spike
1-Chlorooctane         p-Terphenyl         Lab Sample ID: LCSD 880-16281/3         Matrix: Solid         Analysis Batch: 16324         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         p-Terphenyl         Lab Sample ID: 880-9942-A-1-C MS         Matrix: Solid         Analysis Batch: 16324	Recovery 103 106 -A -A <i>LCSD</i> <i>Recovery</i> 108 112 S Sample Result	Qual LCSI Qual Sam	D lifier	70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 876.3 1179 MS Result	Qual	ifier	Unit mg/Kg mg/Kg	ent :		%Rec 88 118 Client S	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch: <u>RPD</u> 10 9 : Matrix ype: To	spike spike
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-16281/3 Matrix: Solid Analysis Batch: 16324 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate % 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-9942-A-1-C MS Matrix: Solid Analysis Batch: 16324	Recovery 103 106 -A -A <i>LCSD</i> <i>Recovery</i> 108 112 S Sample	Qual LCSI Qual Samı Qual	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 876.3 1179 MS	Qual	ifier	Unit mg/Kg mg/Kg	ent :	<u>D</u> .	%Rec 88 118 Client S	Prep T Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 %Rec.	ype: To Batch: <u>RPD</u> 10 9 : Matrix ype: To	Spike

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	76		70 - 130

Eurofins Midland

Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

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

Matrix: Solid	MSD							-	: Matrix Sp Prep 1	Type: To	
Analysis Batch: 16324										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec.	Duton.	RPE
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics	<49.9		999	966.2		mg/Kg		95	70 - 130	14	2
(GRO)-C6-C10		-									_
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1231		mg/Kg		121	70 - 130	13	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	85		70 - 130								
lethod: 300.0 - Anions, Ion Lab Sample ID: MB 880-16437/1 Matrix: Solid Analysis Batch: 16545		ography						Client S	ample ID: Prep	Method Type: So	
		MB MB									
Analyte	Re	esult Qualifier		RL	MDL Unit		) P	repared	Analyz	ed	Dil Fa
Chloride	<	5.00 U		5.00	mg/K	g			01/12/22	10:42	
									ID: Lab Co Prep		
Matrix: Solid	- ^		Spike	LCS	LCS					Type: So	
Matrix: Solid Analysis Batch: 16545 <sup>Analyte</sup>			Added	Result	LCS Qualifier	Unit	D	%Rec	Prep %Rec. Limits		
Matrix: Solid Analysis Batch: 16545 <sup>Analyte</sup>								-	Prep %Rec.		
Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid			Added	Result		Unit mg/Kg	D	%Rec 103	Prep %Rec. Limits 90 - 110	Type: So	olubl
Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid			Added 250	Result 257.9	Qualifier	Unit mg/Kg	D	%Rec 103	Prep %Rec. Limits 90 - 110 Lab Contro Prep	Type: So  ol Sampl	e Du olubi
Lab Sample ID: LCS 880-16437/ Matrix: Solid Analysis Batch: 16545 Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545			Added 250 Spike	Result 257.9 LCSD	Qualifier	Unit mg/Kg Cliet	D	%Rec 103 ple ID: I	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec.	Type: So  ol Sampl Type: So	e Du olubi RP
Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545 Analyte			Added 250 Spike Added	Result 257.9 LCSD Result	Qualifier	Unit mg/Kg Clies Unit	D	%Rec 103 ple ID: I	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits	Type: So 	e Du olub olub RP Lim
Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545 Analyte			Added 250 Spike	Result 257.9 LCSD	Qualifier	Unit mg/Kg Cliet	D	%Rec 103 ple ID: I	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec.	Type: So  ol Sampl Type: So	e Du olubi olubi RP Lim
Matrix: Solid Analysis Batch: 16545 Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: 880-9960-A-4-D	7/3-A		Added 250 Spike Added	Result 257.9 LCSD Result	Qualifier	Unit mg/Kg Clies Unit	D	%Rec 103 ple ID: 1 %Rec 104	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID	Type: So ol Sampl Type: So <u></u> 1 : Matrix	e Du olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 16545 Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: 880-9960-A-4-D Matrix: Solid	7/3-A		Added 250 Spike Added	Result 257.9 LCSD Result	Qualifier	Unit mg/Kg Clies Unit	D	%Rec 103 ple ID: 1 %Rec 104	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID	Type: So ol Sampl Type: So <u>RPD</u> 1	e Du olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid	7/3-A		Added 250 Spike Added	Result 257.9 LCSD Result 260.2	Qualifier	Unit mg/Kg Clies Unit	D	%Rec 103 ple ID: 1 %Rec 104	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID	Type: So ol Sampl Type: So <u></u> 1 : Matrix	e Du olubi olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 16545 Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: 880-9960-A-4-D Matrix: Solid	7/3-A MS Sample	Sample Qualifier	Added 250 Spike Added 250	Result 257.9 LCSD Result 260.2 MS	Qualifier LCSD Qualifier	Unit mg/Kg Clies Unit	D	%Rec 103 ple ID: 1 %Rec 104	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep	Type: So ol Sampl Type: So <u></u> 1 : Matrix	e Du olubi olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 16545 Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545 Chloride Lab Sample ID: 880-9960-A-4-D Matrix: Solid Analysis Batch: 16545 Analyte	7/3-A MS Sample	-	Added 250 Spike Added 250 Spike	Result 257.9 LCSD Result 260.2 MS	Qualifier LCSD Qualifier MS	Unit mg/Kg Clies Unit mg/Kg	D	%Rec 103 ple ID: 1 %Rec 104 Client	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec.	Type: So ol Sampl Type: So <u></u> 1 : Matrix	e Du olubi RP Lim 2 Spik
Matrix: Solid Analysis Batch: 16545 Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545 Chloride Lab Sample ID: 880-9960-A-4-D Matrix: Solid Analysis Batch: 16545	7/3-A MS Sample Result 15.0 MSD	Qualifier	Added 250 Spike Added 250 Spike Added 250	Result 257.9 LCSD Result 260.2 MS Result 290.0	Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg Unit mg/Kg	D	%Rec           103           ple ID: I           %Rec           104           Client           %Rec           110	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 . Matrix Sp Prep	Type: So Sampl Type: So <u>RPD</u> 1 : Matrix Type: So	e Du olubl RP Lim 2 Spik olubl
Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: LCSD 880-1643 Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: 880-9960-A-4-D Matrix: Solid Analysis Batch: 16545 Analyte Chloride Lab Sample ID: 880-9960-A-4-E Matrix: Solid	7/3-A MS Sample Result 15.0 MSD Sample	Qualifier	Added 250 Spike Added 250 Spike Added	Result 257.9 LCSD Result 260.2 MS Result 290.0	Qualifier LCSD Qualifier MS	Unit mg/Kg Unit mg/Kg	D	%Rec           103           ple ID: I           %Rec           104           Client           %Rec           110	Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110	Type: So Sampl Type: So <u>RPD</u> 1 : Matrix Type: So Dike Dup	e Du olubl RP Lim 2 Spik olubl

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## **QC** Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681)

5

Job ID: 880-9962-1

GC VOA

#### Prep Batch: 16220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16220/5-A	Method Blank	Total/NA	Solid	5035	
rep Batch: 16279					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	5035	
880-9962-2	Auger Hole 1	Total/NA	Solid	5035	
880-9962-3	Auger Hole 2	Total/NA	Solid	5035	
880-9962-4	Auger Hole 2	Total/NA	Solid	5035	
MB 880-16279/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16279/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16279/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9960-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-9960-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 16342

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	8021B	16279
880-9962-2	Auger Hole 1	Total/NA	Solid	8021B	16279
880-9962-3	Auger Hole 2	Total/NA	Solid	8021B	16279
880-9962-4	Auger Hole 2	Total/NA	Solid	8021B	16279
MB 880-16220/5-A	Method Blank	Total/NA	Solid	8021B	16220
MB 880-16279/5-A	Method Blank	Total/NA	Solid	8021B	16279
LCS 880-16279/1-A	Lab Control Sample	Total/NA	Solid	8021B	16279
LCSD 880-16279/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16279
880-9960-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	16279
880-9960-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16279

#### Analysis Batch: 16518

Lab Sample ID 880-9962-1	Client Sample ID Auger Hole 1	Prep Type Total/NA	Matrix	Method Total BTEX	Prep Batch
880-9962-2	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-9962-3	Auger Hole 2	Total/NA	Solid	Total BTEX	
880-9962-4	Auger Hole 2	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 16281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-9962-2	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-9962-3	Auger Hole 2	Total/NA	Solid	8015NM Prep	
880-9962-4	Auger Hole 2	Total/NA	Solid	8015NM Prep	
MB 880-16281/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16281/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16281/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9942-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9942-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Analysis Batch: 16324					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	8015B NM	16281

Eurofins Midland

## **QC** Association Summary

Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681)

#### GC Semi VOA (Continued)

#### Analysis Batch: 16324 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-9962-2	Auger Hole 1	Total/NA	Solid	8015B NM	16281	
880-9962-3	Auger Hole 2	Total/NA	Solid	8015B NM	16281	
880-9962-4	Auger Hole 2	Total/NA	Solid	8015B NM	16281	
MB 880-16281/1-A	Method Blank	Total/NA	Solid	8015B NM	16281	
LCS 880-16281/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16281	
LCSD 880-16281/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16281	
880-9942-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	16281	
880-9942-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16281	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	8015 NM	
880-9962-2	Auger Hole 1	Total/NA	Solid	8015 NM	
880-9962-3	Auger Hole 2	Total/NA	Solid	8015 NM	
880-9962-4	Auger Hole 2	Total/NA	Solid	8015 NM	

HPLC/IC

#### Leach Batch: 16437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Soluble	Solid	DI Leach	
880-9962-2	Auger Hole 1	Soluble	Solid	DI Leach	
880-9962-3	Auger Hole 2	Soluble	Solid	DI Leach	
880-9962-4	Auger Hole 2	Soluble	Solid	DI Leach	
MB 880-16437/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-16437/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16437/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9960-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9960-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 16545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Soluble	Solid	300.0	16437
880-9962-2	Auger Hole 1	Soluble	Solid	300.0	16437
880-9962-3	Auger Hole 2	Soluble	Solid	300.0	16437
880-9962-4	Auger Hole 2	Soluble	Solid	300.0	16437
MB 880-16437/1-A	Method Blank	Soluble	Solid	300.0	16437
LCS 880-16437/2-A	Lab Control Sample	Soluble	Solid	300.0	16437
LCSD 880-16437/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16437
880-9960-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	16437
880-9960-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16437

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Job ID: 880-9962-1

-

Initial

Amount

5.05 g

5 mL

10.00 g

5.01 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

16279

16342

16518

16554

16281

16324

16437

16545

Number

Dil

1

1

1

1

10

Factor

Run

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Date Received: 01/07/22 13:05

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 880-9962-1

Lab

XEN MID

XEN MID

XEN MID

XEN MID

XEN MID

XEN MID

#### Lab Sample ID: 880-9962-1 Matrix: Solid

Analyst

KL

KL

AJ

AJ

DM

AJ

Prepared

or Analyzed

01/07/22 14:31

01/11/22 00:44

01/11/22 12:59

01/11/22 14:19

01/07/22 14:36

01/08/22 17:52

5 9

#### Lab Sample ID: 880-9962-2 Matrix: Solid

#### **Client Sample ID: Auger Hole 1** Date Collected: 01/05/22 16:10

Date Received: 01/07/22 13:05

	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	16279	01/07/22 14:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16342	01/11/22 01:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16518	01/11/22 12:59	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16281	01/07/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16324	01/08/22 18:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16437	01/10/22 13:11	СН	XEN MID
Soluble	Analysis	300.0		10			16545	01/12/22 15:08	CH	XEN MID

#### **Client Sample ID: Auger Hole 2** Date Collected: 01/05/22 16:12

#### Date Received: 01/07/22 13:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16279	01/07/22 14:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16342	01/11/22 02:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16518	01/11/22 12:59	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16281	01/07/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16324	01/08/22 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16437	01/10/22 13:11	СН	XEN MID
Soluble	Analysis	300.0		10			16545	01/12/22 15:18	СН	XEN MID

#### **Client Sample ID: Auger Hole 2** Date Collected: 01/05/22 16:14 Date Received: 01/07/22 13:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16279	01/07/22 14:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16342	01/11/22 02:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16518	01/11/22 12:59	AJ	XEN MID

**Eurofins Midland** 

Matrix: Solid

01/10/22 13:11 СН XEN MID 01/12/22 14:58 СН XEN MID

Matrix: Solid

Lab Sample ID: 880-9962-3

Lab Sample ID: 880-9962-4

**Client Sample ID: Auger Hole 2** 

Date Collected: 01/05/22 16:14

Date Received: 01/07/22 13:05

Job ID: 880-9962-1

## Lab Sample ID: 880-9962-4

Matrix: Solid

9

#### Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 16554 Analysis 01/11/22 14:19 AJ XEN MID 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 16281 01/07/22 14:36 DM XEN MID Total/NA Analysis 8015B NM 16324 01/08/22 19:13 AJ XEN MID 1 16437 01/10/22 13:11 XEN MID Soluble Leach DI Leach 5.05 g 50 mL СН 300.0 16545 01/12/22 15:28 XEN MID Soluble Analysis 5 CH

#### Laboratory References:

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

**Eurofins Midland** 

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			or another or annual y		
Client: Etech Environm Project/Site: Hudgens #		ons		Job ID: 880-9962-1	
Laboratory: Eurofi	ns Midland				
Unless otherwise noted, all a	nalytes for this laboratory	were covered under each acc	reditation/certification below.		
Authority	I	Program	Identification Number	Expiration Date	
Texas			T104704400-21-22	06-30-22	5
the agency does not off		but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	6
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					0

Eurofins Midland

#### **Method Summary**

Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

Method	Method Description	Protocol	Laboratory	
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID	
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID	
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID	
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID	
300.0	Anions, Ion Chromatography	MCAWW	XEN MID	
5035	Closed System Purge and Trap	SW846	XEN MID	
8015NM Prep	Microextraction	SW846	XEN MID	
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID	
Protocol Refe	rences:			
ASTM = A	STM International			
MCAWW =	"Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March	1983 And Subsequent Revisions.		
SW846 = '	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition	n, November 1986 And Its Updates.		
TAL SOP =	<ul> <li>TestAmerica Laboratories, Standard Operating Procedure</li> </ul>			

#### Protocol References:

#### Laboratory References:

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

#### **Sample Summary**

Client: Etech Environmental & Safety Solutions Project/Site: Hudgens #001 (9681) Page 60 of 170

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
380-9962-1	Auger Hole 1	Solid	01/05/22 16:08	01/07/22 13:05	0-6"	
380-9962-2	Auger Hole 1	Solid	01/05/22 16:10	01/07/22 13:05	6-12"	
380-9962-3	Auger Hole 2	Solid	01/05/22 16:12	01/07/22 13:05	0-6"	
80-9962-4	Auger Hole 2	Solid	01/05/22 16:14	01/07/22 13:05	6-12"	
						- 1

	5	ω	1 Materio	Relinquished by (Signature)	to server Annow must be name unity or une cust of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such to fixence. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms	Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcon of service Xenco will be liable only for the cost of service and subcontained and subcontain	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed						Aliner Hole 2	Auger Hole 2	Auger Hole 1	Auger Hole 1	Sample Identification	Sample Custody Seals	Cooler Custody Seals	Received Intact.	Temperature (°C)	SAMPLE RECEIPT	Sampler's Name Bla	PO Number 15313	Project Number 15313	Project Name Hu	Phone 432	City, State ZIP Od	Address 130	Company Name Ete	Project Manager Bra			
		(	20	ignature)	of \$75.00 will be applied	ment and relinquishmer	200.8 / 6020: nd Metal(s) to be a								1 S	1 S	ation Matrix	Yes No (N/)		es N	"k ~	Temp Blank	Blake Estep	313	313	Hudgens #001 (9681)	432-563-2200	Odessa, Tx 79765	13000 W CR 100	Etech Environmental	Brandon Wilson		BORATORIES	
			r. s. M	Received t	to each project an	It of samples const	幋					17072022	115,000	1/5/2022	1/5/2022	1/5/2022	Date Sampled					1k Yes (No)				)						Hobbs		
			2.12	Received by (Signature)	t assume any res Id a charge of \$5	itutes a valid pur	8RCRA 13PPM Tex TCLP / SPLP 6010					5 T		16 12	16 10	16 08	Time Sampled	Total Containers	Correction Factor	TYC	Thermometer ID	Wet Ice	Due Date	Rush	Routine	Tum	Email b	0	A	0		NM (575-392-75	Midland T	Holiston T
			1-	<b>e</b>	ponsibility for an for each sample	chase order from	A Texas 11 A					¢-		0-6"	6-12"	0-6"	Depth		õ	$\left  a \right $		(es) No	lte		×	Turn Around	brandon@etechenv com, blake@etechenv com	City, State ZIP	Address	Company Name	Bill to (if different)	Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)	Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296	1000 ALC (1901)
			1-7-2d	Date/Time	y losses or ex submitted to )	) client compa	Al Sb As RA Sb As						╋	-+	 ×		Numb					5					chenv com					2 (480-355-09	0) EL Paso 1	Chair
			13.05	lime	penses incurr (enco, but not	ny to Xenco, i	Ba Be Ba Be					> > >	+	-			BETEX Chlorid		20	IB							blake@et					00) Atlanta (	2 14) 902-030 X (915)585-3	n of C
	6	4	N	Relinqi	ed by the clier analyzed The	ts affiliates an	Cd Ca d Cr Co				-						,,									•	echenv co					3A (770-449-	3443 Lubboc	Chain of Custody
				Relinquished by	nt if such loss ose terms will	d subcontract	Cr Co Cu Cu Pb N																			NALYSIS	n					8800) Tamp	וס דא (ביוט) s k TX (806)79	V
				by (Signature)	losses are due to circumstances beyond the control will be enforced unless previously negotiated	tractors. It assigns standard terms and conditions	Cu Fe Pb Mg Mn Mo Ni K Mn Mo Ni Se Ag Ti U										······					••••••••••				ANALYSIS REQUEST		R				a FL (813-62	10) 509-3334 6)794-1296	
					circumstances nless previou	s standard te	1g Mn Mo Se Ag Ti																			-	Deliverables	Reporting Level IIevel IIIPST/UST	State of Project:	Program: UST/PST		0-2000)		
				Received by	beyond the c sly negotiated	rms and cond	N K Se		 	96-088				+															roject:		W	www		Worł
			1 1	by (Signature)	control		Ag SiO			880-9962 Chain of Custody				+													ADa	/el III □Ps		RP Brov	ork Order	www xenco com		Work Order No:
			, A	ture)			2 Na Sr Ti 1631 / 245.1			f Custody							Sa	lab	TAT sta							*				PRP Brownfields RC	š	m Page		No:
Revised Date 051418 Rev 2018 1				Date/Time			2 Na Sr Ti Sn U V Zn 1631/245.1/7470 /7471 Hg										Sample Comments	lab If received by 4 30pm	sto the devices but the							Work Order Notes	Other			RC Buperfund	and the second	le of	•	9942

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Job Number: 880-9962-1

#### Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Login Number: 9962	List Source: Eurofins Midland
List Number: 1	
Creator: Rodriguez, Leticia	

•		
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 ampered 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	
s 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	



August 14, 2024

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

RE: HUDGENS #001

Enclosed are the results of analyses for samples received by the laboratory on 07/25/24 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project Number:	HUDGENS #001 2407 ASHTON THIELKE	Reported: 14-Aug-24 11:26
--	-----------------	--	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH - 1 (0-1')	H244428-01	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 1 (2')	H244428-02	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 1 (3')	H244428-03	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 1 (4')	H244428-04	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 1 (5')	H244428-05	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 2 (0-1')	H244428-06	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 2 (2')	H244428-07	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 2 (3')	H244428-08	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 2 (4')	H244428-09	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 2 (5')	H244428-10	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 3 (0-1')	H244428-11	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 3 (2')	H244428-12	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 3 (3')	H244428-13	Soil	25-Jul-24 00:00	25-Jul-24 12:00
BH - 3 (4')	H244428-14	Soil	25-Jul-24 00:00	25-Jul-24 12:00

08/14/24 - Client added chloride to samples -05 and -10 (see COC). This is the revised report and will replace the one sent on 07/30/24.

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	310 W WALL ST, SUITE 500Project Number: 2407												
BH - 1 (0-1') H244428-01 (Soil)													
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
			Cardina	l Laborat	tories								
Inorganic Compounds													
Chloride	816		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B				
Volatile Organic Compounds b	y EPA Method	8021											
Benzene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B				
Toluene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B				
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B				
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072529	JH	26-Jul-24	8021B				
Total BTEX	< 0.300		0.300	mg/kg	50	4072529	JH	26-Jul-24	8021B				
Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5	-134	4072529	JH	26-Jul-24	8021B				
Petroleum Hydrocarbons by G	C FID												
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B				
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B				
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B				
Surrogate: 1-Chlorooctane			108 %	48.2	-134	4072522	MS	26-Jul-24	8015B				
Surrogate: 1-Chlorooctadecane			114 %	49.1	-148	4072522	MS	26-Jul-24	8015B				

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCESProject:HUDGENS #001Reported:310 W WALL ST, SUITE 500Project Number:240714-Aug-24 11:26MIDLAND TX, 79701Project Manager:ASHTON THIELKE Fax To:Fax To:										26
				- 1 ( 2' ) 428-02 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	672		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds h	oy EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5	-134	4072529	ЛН	26-Jul-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	29.7		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	16.5		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701		Project: HUDGENS #001 Reported: Project Number: 2407 14-Aug-24 11:26 Project Manager: ASHTON THIELKE Fax To:										
BH - 1 (3') H244428-03 (Soil)												
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	ories							
Inorganic Compounds Chloride	640		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B			
Volatile Organic Compounds b		2021	10.0		·	10,2020		20 041 21	1000 01 2			
Benzene*	<0.050	5021	0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B			
Toluene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B			
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B			
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072529	ЛН	26-Jul-24	8021B			
Total BTEX	< 0.300		0.300	mg/kg	50	4072529	JH	26-Jul-24	8021B			
Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5	-134	4072529	ЈН	26-Jul-24	8021B			
Petroleum Hydrocarbons by G	C FID											
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B			
DRO >C10-C28*	11.5		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B			
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B			
Surrogate: 1-Chlorooctane			96.7 %	48.2	-134	4072522	MS	26-Jul-24	8015B			
Surrogate: 1-Chlorooctadecane			103 %	49.1	-148	4072522	MS	26-Jul-24	8015B			

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701		Project: HUDGENS #001 Project Number: 2407 Project Manager: ASHTON THIELKE Fax To:								
				- 1 ( 4' ) 428-04 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	704		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072529	ЈН	26-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5	-134	4072529	ЈН	26-Jul-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	12.7		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			123 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			133 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701			Project Nun Project Mana	nber: 24	UDGENS #00 407 SHTON THIE		1	Reported: 14-Aug-24 11:26			
BH - 1 (5') H244428-05 (Soil)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	864		16.0	mg/kg	4	4081342	CT	13-Aug-24	4500-Cl-B		

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CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: HUDGENS #001 Reported: Project Number: 2407 14-Aug-24 11:2 Project Manager: ASHTON THIELKE Fax To:									
				- 2 ( 0-1' 428-06 (Sc	,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	576		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5	-134	4072529	JH	26-Jul-24	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			116 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			123 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701			1	Reported: 14-Aug-24 11:26						
				- 2 ( 2' ) 428-07 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds									(#00 cl 5	
Chloride	1040		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5	-134	4072529	ЈН	26-Jul-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			124 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			132 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701			1	Reported: 14-Aug-24 11:26						
				- 2 (3') 428-08 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	640		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5	-134	4072529	ЛН	26-Jul-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			130 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			138 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager


CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701			Project Num Project Mana	ber: 240				1	Reported: 14-Aug-24 11:	26
				- 2 ( 4' ) 128-09 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	016		16.0		4	4070(05		26 1 1 24	4500 CL D	
Chloride	816		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072529	JH	26-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072529	ЛН	26-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5	-134	4072529	JH	26-Jul-24	8021B	
Petroleum Hydrocarbons by GO	C FID									S-04
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	42.5		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			135 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			146 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701			Project Num Project Mana	ber: 2	HUDGENS #00 2407 ASHTON THIE			1	Reported: 4-Aug-24 11:	26
			BH H2444	- 2 (: 128-10						
Analyte	Result	MDL	Reporting Limit	Units	s Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labo	oratories					
Inorganic Compounds										
Chloride	1360		16.0	mg/kg	g 4	4081342	CT	13-Aug-24	4500-Cl-B	

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701			Project Num Project Mana	ber: 240				1	Reported: 14-Aug-24 11:	26
				- 3 ( 0-1' 428-11 (So	·					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072630	JH	29-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072630	JH	29-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072630	JH	29-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.1 %	71.5	-134	4072630	ЛН	29-Jul-24	8021B	
<u>Petroleum Hydrocarbons by G</u>	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			125 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			131 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

## **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701			Project Num Project Mana	ber: 240				1	Reported: 14-Aug-24 11:	26
				[ - 3 ( 2' ) 428-12 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds			160			1072625		26 1 1 24	4500 CL D	
Chloride	160		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072630	ЈН	29-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072630	ЈН	29-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5	-134	4072630	JH	29-Jul-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			102 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			106 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

## **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701			Project Num Project Mana	, ber: 240				1	Reported: 4-Aug-24 11:	26
				- 3 ( 3' ) 428-13 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	144		16.0	mg/kg	4	4072636	HM	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4072630	JH	29-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072630	JH	29-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072630	JH	29-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072630	JH	29-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072630	ЈН	29-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5	-134	4072630	JH	29-Jul-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			101 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			108 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

## **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701		Project:HUDGENS #001Reported:Project Number:240714-Aug-24 11:26Project Manager:ASHTON THIELKEFax To:Fax To:								26
				[ - 3 ( 4' ) 428-14 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	224		16.0	mg/kg	4	4072636	HM	26-Jul-24	4500-Cl-B	
Volatile Organic Compounds by		8021		00						
Benzene*	< 0.050		0.050	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4072630	ЈН	29-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4072630	ЛН	29-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.8 %	71.5	-134	4072630	ЛН	29-Jul-24	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctane			114 %	48.2	-134	4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			124 %	49.1	-148	4072522	MS	26-Jul-24	8015B	

## **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Inorganic Compounds - Quality Control**

		Cardir	1al Lab	oratories						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4072625 - 1:4 DI Water	Result	Elillit	Onits	Lever	Result	/utile	Linits	IC D	Linit	Totes
Blank (4072625-BLK1)				Prepared &	z Analyzed:	26-Jul-24				
Chloride	ND	16.0	mg/kg							
LCS (4072625-BS1)				Prepared &	Analyzed:	26-Jul-24				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4072625-BSD1)				Prepared &	Analyzed:	26-Jul-24				
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	
Batch 4072636 - 1:4 DI Water										
Blank (4072636-BLK1)				Prepared &	Analyzed:	26-Jul-24				
Chloride	ND	16.0	mg/kg							
LCS (4072636-BS1)				Prepared &	Analyzed:	26-Jul-24				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4072636-BSD1)				Prepared &	Analyzed:	26-Jul-24				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 4081342 - 1:4 DI Water										
Blank (4081342-BLK1)				Prepared &	Analyzed:	13-Aug-24				
Chloride	ND	16.0	mg/kg							
LCS (4081342-BS1)				Prepared &	Analyzed:	13-Aug-24				
Chloride	432	16.0	mg/kg	400		108	80-120			

## **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: HUDGENS #001 Project Number: 2407 Project Manager: ASHTON THIELKE Fax To:	Reported: 14-Aug-24 11:26
	Inorganic Compounds - Quality Control Cardinal Laboratories	

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4081342 - 1:4 DI Water										
LCS Dup (4081342-BSD1)				Prepared &	Analyzed:	13-Aug-24				
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

## **Cardinal Laboratories**

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project Number:	HUDGENS #001 2407 ASHTON THIELKE	Reported: 14-Aug-24 11:26
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## Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
maryu	Kesult	Liillt	Units	Level	Kesun	/0KEC	Liiiits	NI D	Liiiit	notes
Batch 4072529 - Volatiles										
Blank (4072529-BLK1)				Prepared: 2	5-Jul-24 Ai	nalyzed: 26	-Jul-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0549		mg/kg	0.0500		110	71.5-134			
LCS (4072529-BS1)				Prepared: 2	5-Jul-24 A1	nalyzed: 26	-Jul-24			
Benzene	2.11	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.19	0.050	mg/kg	2.00		110	86-128			
Ethylbenzene	2.26	0.050	mg/kg	2.00		113	85.9-128			
m,p-Xylene	4.68	0.100	mg/kg	4.00		117	89-129			
o-Xylene	2.22	0.050	mg/kg	2.00		111	86.1-125			
Total Xylenes	6.90	0.150	mg/kg	6.00		115	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	71.5-134			
LCS Dup (4072529-BSD1)				Prepared: 2	5-Jul-24 A1	nalyzed: 26	-Jul-24			
Benzene	2.09	0.050	mg/kg	2.00		105	82.8-130	0.955	15.8	
Toluene	2.18	0.050	mg/kg	2.00		109	86-128	0.450	15.9	
Ethylbenzene	2.25	0.050	mg/kg	2.00		113	85.9-128	0.322	16	
m,p-Xylene	4.63	0.100	mg/kg	4.00		116	89-129	1.12	16.2	
o-Xylene	2.21	0.050	mg/kg	2.00		110	86.1-125	0.373	16.7	
Total Xylenes	6.84	0.150	mg/kg	6.00		114	88.2-128	0.883	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	71.5-134			

# Batch 4072630 - Volatiles

Blank (4072630-BLK1)			Prepared: 26-Jul-24 Analyzed: 29-Jul-24
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

## Cardinal Laboratories

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project Number:	HUDGENS #001 2407 ASHTON THIELKE	Reported: 14-Aug-24 11:26	
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## Volatile Organic Compounds by EPA Method 8021 - Quality Control

# **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4072630 - Volatiles										
Blank (4072630-BLK1)				Prepared: 2	26-Jul-24 A	nalyzed: 29	9-Jul-24			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.4	71.5-134			
LCS (4072630-BS1)				Prepared: 2	26-Jul-24 A	nalyzed: 29	9-Jul-24			
Benzene	2.00	0.050	mg/kg	2.00		100	82.8-130			
Toluene	1.95	0.050	mg/kg	2.00		97.6	86-128			
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.2	85.9-128			
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.6	89-129			
o-Xylene	1.93	0.050	mg/kg	2.00		96.6	86.1-125			
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.3	71.5-134			
LCS Dup (4072630-BSD1)				Prepared: 2	26-Jul-24 A	nalyzed: 29	9-Jul-24			
Benzene	1.86	0.050	mg/kg	2.00		93.1	82.8-130	7.14	15.8	
Toluene	1.81	0.050	mg/kg	2.00		90.6	86-128	7.53	15.9	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.2	85.9-128	8.31	16	
m,p-Xylene	3.58	0.100	mg/kg	4.00		89.4	89-129	8.74	16.2	
o-Xylene	1.77	0.050	mg/kg	2.00		88.3	86.1-125	8.93	16.7	
Total Xylenes	5.34	0.150	mg/kg	6.00		89.0	88.2-128	8.80	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.7	71.5-134			

## **Cardinal Laboratories**

## \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project Number:	HUDGENS #001 2407 ASHTON THIELKE	Reported: 14-Aug-24 11:26	
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## Petroleum Hydrocarbons by GC FID - Quality Control

# **Cardinal Laboratories**

A L. d.	Dlt	Reporting	T	Spike	Source	0/ DEC	%REC	DDD	RPD	N-4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4072522 - General Prep - Organics										
Blank (4072522-BLK1)				Prepared: 2	25-Jul-24 A	nalyzed: 26	Jul-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	49.1-148			
LCS (4072522-BS1)				Prepared: 2	25-Jul-24 A	nalyzed: 26	Jul-24			
GRO C6-C10	205	10.0	mg/kg	200		103	66.4-123			
DRO >C10-C28	194	10.0	mg/kg	200		96.9	66.5-118			
Total TPH C6-C28	399	10.0	mg/kg	400		99.8	77.6-123			
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	60.3		mg/kg	50.0		121	49.1-148			
LCS Dup (4072522-BSD1)				Prepared: 2	25-Jul-24 A	nalyzed: 26	Jul-24			
GRO C6-C10	208	10.0	mg/kg	200		104	66.4-123	1.43	17.7	
DRO >C10-C28	198	10.0	mg/kg	200		98.8	66.5-118	2.00	21	
Total TPH C6-C28	406	10.0	mg/kg	400		101	77.6-123	1.71	18.5	
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	48.2-134			
Surrogate: 1-Chlorooctadecane	63.0		mg/kg	50.0		126	49.1-148			

## **Cardinal Laboratories**

## \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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			+		4	+	×	-	G	×		7/25/2024	3	· BH-1 (4')	4
		-	+		+	-	-	-	G	×		7/25/2024	3	BH-1 (3')	S
		+	+		_	+	-	-	G	×		7/25/2024	3	BH-1 (2')	l
			-			×	×	-	G	×		7/25/2024	1')	BH-1 (0-1')	-
Sample Comments	Sa	x					ТРН	# of Cont	Water Comp	Soil	Time	Date	fication	Sample Identification	
NaOH+Ascorbic Acid: SAPC	NaOH+						801		1	Corrected Temperature:	Corrected	-		I otal Containers:	
7n Acetata+NaOH: 7n									7.2°	Temperature Reading:	Temperatu	NO NIA	Yes	Sample Custody Seals:	
Na.S.O.: NaSO.	HOL							Pa		Factor:	Correction Factor:	NO NIA	Yes	Cooler Custody Seals:	-
NARIC				-		le 45	802	aran	140	eter ID:	Thermometer ID:	-	O	Received Intact:	
	H-DO - HD							nete	Yes No	Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT	-
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TRRP Level IV	Level III PST/UST	Reportin							City, State ZIP:			9701	Midland, TX 79701	ate ZIP:	
_	State of Project:	State of							Address:			l Ste. 500	310 West Wall Ste.	Address:	
RRC	Program: UST/PST PRP Brownfields RRC	Program							Company Name:			ources	Carmona Resources	Company Name:	
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Page 1 of 2	P														
23 of	Work Order No:														Page 8
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Chain of Custody

e 85 of 170

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Page         Work Order Comments         Program: UST/PST       PRP       Brownfields       RRc         State of Project:       Reporting:Level II       Level III       PST/UST       Preservation         ANALYSIS REQUEST       Preservation       Nome: NO       Coli Cool       HCL: HC       HSO; HB         Image: Color Cool       Image: Cool       Image: Color Cool	Project Manage:         Addros Truble         Bit to glower         Camous Resources         Work Order, Camous Resources           Organization         Sono         Enail         Truble Address         Camous Resources         Project Name         Project Name         Project Name         Project Name         Project Name         NATVES Reformante         Project Name         Project Name<				0 4							5	ceive?
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Work Order No: Hatt													5

Chain of Custody

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July 30, 2024

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

RE: HUDGENS #001

Enclosed are the results of analyses for samples received by the laboratory on 07/25/24 12:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	07/25/2024		Sampling Date:	07/25/2024
Reported:	07/30/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: H - 1 (0-1') (H244427-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/26/2024	ND	2.11	106	2.00	0.955	
Toluene*	<0.050	0.050	07/26/2024	ND	2.19	110	2.00	0.450	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.26	113	2.00	0.322	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	6.90	115	6.00	0.883	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	07/26/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	205	103	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	194	96.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	0						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	07/25/2024		Sampling Date:	07/25/2024
Reported:	07/30/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: H - 2 (0-1') (H244427-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	2.11	106	2.00	0.955	
Toluene*	<0.050	0.050	07/26/2024	ND	2.19	110	2.00	0.450	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.26	113	2.00	0.322	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	6.90	115	6.00	0.883	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/26/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	205	103	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	194	96.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	07/25/2024		Sampling Date:	07/25/2024
Reported:	07/30/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: H - 3 (0-1') (H244427-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	2.11	106	2.00	0.955	
Toluene*	<0.050	0.050	07/26/2024	ND	2.19	110	2.00	0.450	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.26	113	2.00	0.322	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	6.90	115	6.00	0.883	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/26/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	205	103	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	194	96.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	07/25/2024		Sampling Date:	07/25/2024
Reported:	07/30/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: H - 4 (0-1') (H244427-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	2.11	106	2.00	0.955	
Toluene*	<0.050	0.050	07/26/2024	ND	2.19	110	2.00	0.450	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	2.26	113	2.00	0.322	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	6.90	115	6.00	0.883	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/26/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	205	103	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	194	96.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

3 Warn 1	Relinquished by:						H-4 (0-1')	H-3 (0-1')	H-2 (0-1')	H-1 (0-1')	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project   ocation	Project Number:	Project Name:	Phone: 4	City, State ZIP: M			Project Manager: As		
	(Signature)							1)	")	")	fication		Yes	Yes N					Lea		Hudg	432-813-8988	Midland, TX 79701	310 West Wall Ste. 500	Carmona Resources	Ashton Thielke		
. Ju	. /			•			7/25/2024	7/25/2024	7/25/2024	7/25/2024	Date		NO (NIA)	O (NIA)	1	Temp Blank:		MM	Lea Co, NM	2407	Hudgens #001		01	te. 500	ces			
1 Jak	Received by:	-	Please \$								Time	Corrected	[emperatu	Correction Factor:	Thermometer ID:	Yes NO			-				8					
2 della	d by: (Signature		Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com						××	×	Soil	Corrected Temperature:	Temperature Reading:	Factor:	ter ID:	Wet Ice:	lab, if recei	TAT starts the day received by the	Due Date:	✓ Routine	Turn	Email:						
	ure)		to cmoehr								Water		4.20	1	140	Yes No	ved by 4:30pm	day received b	Normal	Rush	Turn Around	ThielkeA@Carmonaresources.com	City, State ZIP:	Address:	Company Name	Bill to: (if different)		
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Revised .				*							Sample Comments		Ascorbic	ate+Na(	NaSO	NABIS	1D		0	0	Preservative Codes		Other:	TRRP		Its	ge	14
/ised Date 05012020 Rev. 2020	Date/Time										Comm		Acid: S	UH: Zn	ω		THUCH	NaOH: Na	MeOH: Me	DI Water: H2U	IVe Co			Level IV			1 of	10
020 5	Time										ents		APC					NHN NA	: Me	Iter: H	des	•		/el IV		fund		

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~9117

Received by OCD: 10/22/2024 9:10:46 AM



September 19, 2024

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

RE: HUDGENS #001

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



# Analytical Results For: CARMONA RESOURCES

		ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: CS - 1 (4.25') (H245666-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	0						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: CS - 2 (4.25') (H245666-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.4	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: CS - 3 (4.25') (H245666-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	52.6	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	26.6	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

### Sample ID: CS - 4 (4.25') (H245666-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

### Sample ID: CS - 5 (4.25') (H245666-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	mg/kg Analyzed By: HM		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	302	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	120	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

### Sample ID: CS - 6 (4.25') (H245666-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	0						

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: CS - 7 (4.25') (H245666-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS	MS			S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	413	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	113	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	150 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

### Sample ID: CS - 8 (4.25') (H245666-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/18/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/18/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/18/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: CS - 9 (4.25') (H245666-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	<10.0	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: CS - 10 (4.25') (H245666-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	mg/kg Analyzed By: HM		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	09/18/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	ND	214	107	200	0.887	
DRO >C10-C28*	126	10.0	09/18/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	83.1	10.0	09/18/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: CS - 11 (4.25') (H245666-11)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	09/19/2024	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	214	107	200	0.887	
DRO >C10-C28*	147	10.0	09/19/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	36.1	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: CS - 12 (4.25') (H245666-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	09/19/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	214	107	200	0.887	
DRO >C10-C28*	22.7	10.0	09/19/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: SW - 1 (4.25') (H245666-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	mg/kg Analyzed By: CT		d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/19/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	214	107	200	0.887	
DRO >C10-C28*	43.5	10.0	09/19/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

## Sample ID: SW - 2 (4.25') (H245666-14)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Reco	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	09/19/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	214	107	200	0.887	
DRO >C10-C28*	168	10.0	09/19/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	110	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	0						

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Celey D. Keene, Lab Director/Quality Manager


		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

#### Sample ID: SW - 3 (4.25') (H245666-15)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/19/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	214	107	200	0.887	
DRO >C10-C28*	99.1	10.0	09/19/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	32.4	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

#### Sample ID: SW - 4 (4.25') (H245666-16)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/19/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	214	107	200	0.887	
DRO >C10-C28*	28.9	10.0	09/19/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

#### Sample ID: SW - 5 (4.25') (H245666-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/19/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	214	107	200	0.887	
DRO >C10-C28*	22.0	10.0	09/19/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/18/2024		Sampling Date:	09/18/2024
Reported:	09/19/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

#### Sample ID: SW - 6 (4.25') (H245666-18)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.21	111	2.00	7.17	
Toluene*	<0.050	0.050	09/19/2024	ND	2.29	115	2.00	6.50	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.34	117	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.99	117	6.00	5.75	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/19/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2024	ND	214	107	200	0.887	
DRO >C10-C28*	<10.0	10.0	09/19/2024	ND	215	107	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	09/19/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14							

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

				1 Cule me	Relinquished by:										S						Sample	Total Containers:	Sample Custody Seals	Cooler Custody Seals	Received Intact	SAMPLE RECEIPT	PO 井	Sampler's Name	Project Location	Project Number	Project Name:	Phone:	City, State ZIP	Address:	Company Name	Project Manager
			-		d by: (Signature)					CS-10 (4.25')	CS-9 (4.25')	CS-8 (4.25')	-7 (4.25')	-6 (4.25')	CS-5 (4.25')	CS-4 (4:25')	CS-3 (4.25')	CS-2 (4.25')	US-1 (4.25')		Idontification	S:	ly Seals:	/ Seals:	ŕt	ECEIPT		ne:	5	1H		432-81				
					ire)					9/1	9/1	9/1	9/1	9/1	9/1	9/1	9/1	9/1	./6				Yes No	Yes No	Yes	Temp Blank		CM	Lea Co,	2407	Hudgens #001	432-813-8983	d, TX 79701	310 West Wall Ste. 500	Carmona Resources	Ashton Thielke
			menn.	11 11	. / Re					9/18/2024	9/18/2024	9/18/2024	9/18/2024	9/18/2024	9/18/2024	9/18/2024	9/18/2024	9/18/2024	9/18/2024	Date		1		(N/A) C				M	o, NM	07	ns #001		 	2. 500	es	
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			and	1 May	(Signature			a results to		×	×	×	×	×	×	×	×	×	×	Soil		mperature:	Reading:	actor:	r ID:	Wet Ice:			Due Date:	Routine	Turi	Email:				
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				ture)						-	-	+	+	+	+-	+	+	+			NaO	Zn A		o NaHS	_	H <sub>2</sub> SC	HCL: HC	Cool	None			ADaPT	PST/UST	rownfiel	ler Com	
				Da																Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	NaHSO4: NABIS	H <sub>3</sub> PO <sub>4</sub> : HP	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	HC	Cool: Cool	None: NO	<b>Preservative Codes</b>	Curci.		TRRP	State of Project:	ments	Page
		×	× 5.	Date/Time																ommen	Acid: SA	H: Zn				NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H <sub>2</sub> O	tive Coo			VI lavel	uperfund		_1 of

Released to Imaging: 11/1/2024 1:32:29 PM

Chain of Custody

Work Order No: Hatsu

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			Jan Vienne	· · · · · · · · · · · · · · · · · · ·	Relinguished hu							SVV-6 (4.25')	SVV-5 (4.25)	SW-4 (4.25)	SW-3 (4.25')	SW-2 (4.25')	SW-1 (4.25')	CS-12 (4.25')	US-11 (4.25)	Sample Identification		Total Containers:	Sample Custody Seals:	Cooler Custody Seals	Received Intact:	SAMPLE RECEIPT	PO #	Sampler's Name:	Project Location	Project Number:	Project Name:	Prione:	City, state ZIP:	Address:	Company Name:	Project Manager:
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	,		ULDXU	Received by: (Signature		ŝ		r rease serior results to cmoenring@carmonaresources.com and mcarmona@carmonaresources.com	Please send											Time	Corrected Temperature	Connated Tax	Temperature Reading	Correction Factor:	e l	Yes NO V			Due							
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ZD a				re)																San	NaOH+A	Zn Aceta	Na2S2O3: NaSO3	NaHSO4: NABIS		H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	Pre	,				Program: UST/PST PRP Rrownfields PbpC	P P
Vised Fat- 000-19				Date/Time																Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	NaSO <sub>3</sub>	NABIS	Þ			-		ervati		· · ·	TRRP			rage 2
100 0 mil 000				Time	•															nents	: SAPC	1				NaOH: Na	HNO3: HN	MeOH: Me	Di Water: H <sub>2</sub> O	Codes						of 2

# Chain of Custody

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Work Order No: H34

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**Received by OCD: 10/22/2024 9:10:46 AM** 



September 20, 2024

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

RE: HUDGENS #001

Enclosed are the results of analyses for samples received by the laboratory on 09/19/24 13:56.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/19/2024		Sampling Date:	09/19/2024
Reported:	09/20/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

#### Sample ID: SW - 2 (4.25') (H245721-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/20/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	208	104	200	0.426	
DRO >C10-C28*	22.6	10.0	09/20/2024	ND	196	97.8	200	0.735	
EXT DRO >C28-C36	10.8	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/19/2024		Sampling Date:	09/19/2024
Reported:	09/20/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

#### Sample ID: SW - 3 (4.25') (H245721-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/20/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	208	104	200	0.426	
DRO >C10-C28*	238	10.0	09/20/2024	ND	196	97.8	200	0.735	
EXT DRO >C28-C36	210	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CARMONA RESOURCES ASHTON THIELKE 310 W WALL ST, SUITE 500 MIDLAND TX, 79701 Fax To:		
Received:	09/19/2024		Sampling Date:	09/19/2024
Reported:	09/20/2024		Sampling Type:	Soil
Project Name:	HUDGENS #001		Sampling Condition:	Cool & Intact
Project Number:	2407		Sample Received By:	Tamara Oldaker
Project Location:	LEA CO., NM			

#### Sample ID: SW - 4 (4.25') (H245721-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2024	ND	2.08	104	2.00	3.82	
Toluene*	<0.050	0.050	09/19/2024	ND	2.00	99.8	2.00	3.35	
Ethylbenzene*	<0.050	0.050	09/19/2024	ND	2.03	102	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/19/2024	ND	6.08	101	6.00	3.39	
Total BTEX	<0.300	0.300	09/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/20/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	ND	208	104	200	0.426	
DRO >C10-C28*	<10.0	10.0	09/20/2024	ND	196	97.8	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	09/20/2024	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Sector Margon         Anton Thate         Single Sin			- I				10	:40	71.1/1			U	20	)-	-																		Page	1.
Antron Truelez       Balto a rawent       Common Resources         100 // Vier. Viality       Biological and the antropy of the antr			Kelinquished by: (S					-				SW-4 (4.2	SW-3 (4.2	SW-2 (4.2	Sample Identii		Total Containers:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIP	PO#	Sampler's Name:	Project Location	Project Number:	Project Name:		ate ZIP:							
Bits       Common Resources       Page 1, of 1         S00       One of the present       Common Resources       Page 1, of 1         S00       One of the present       Common Resources       Page 1, of 1         S00       One of the present       Common Resources       Page 1, of 1         S00       Transman       Common Resources       Page 1, of 1       Page 1, of 1         S00       Transman       Common Resources       Page 1, of 1       Pag		-	Signature)												fication		Yes	Yes	(Yes				Lea		Hudg	432-813-8988	Midland, TX 797	310 West Wall S	Carmona Resou	Ashton Thielke		. )		
Image:       Cammon Resources       Not Criter No:       Mathematical status         Image:       Cammon Resources       Image:       <		JUNI.	· /· Re						*	2	-,	9/19/2024	9/19/2024	9/19/2024			INA	NA	No			CM	Co, NM	2407	Jens #001		01		Irces					
Work Crder No:       H344501         'Page 1_ of 1       Page 1_ of 1         'Work Order Comments       Preservative Codes         'III   Level III   PST/UST   RRP   Level IV       None: NO       DI Vater: H2         ADaPT -       Other:       Other:         'III   Level IV       None: NO       DI Water: H2         ADaPT -       None: NO       DI Water: H2         Cool: Cool       MeOH: M8         H3, PO4: H2       NaOH: ABIS         NaCate+NaOH: Zn       NaOH: ABIS         NaOH: Ascorbic Acid: SAPC       Sample Comments         Sample Comments       Interments         'III   III   IIII   IIIIIIIIIIIIIIIIIII		and l				ease send r										orrected Temp	emperature Re	orrection Factor	hermometer IE	10000			Due											
Work Crder No:       Page 1_ of 1         Work Order Comments       Page 1_ of 1         'PST PRP       Brownfields RRC       uperfund         adapt 0       None: NO       DI Water. H <sub>2</sub> Coci: Coci         None: NO       None: NO       DI Water. H <sub>2</sub> Coci: Coci         H:       None: NO       DI Water. H <sub>2</sub> Coci: Coci         H:       None: NO       DI Water. H <sub>2</sub> Coci: Coci         None: NO       DI Water. H <sub>2</sub> Coci: Coci       MeOH: Me         H:       None: NO       DI Water. H <sub>2</sub> Coci: Coci         NaOH: Association Acid: SAPC       Sample Comments         Note: No       DateTTime		Mar	signature				-	+				×	×	×		erature: 5,4	ading:			let Ice:		Duto.			-		City	Add	Co	Bill				
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Work Crder No:       H344501         'Page 1_ of 1       Page 1_ of 1         'Work Order Comments       Preservative Codes         'III   Level III   PST/UST   RRP   Level IV       None: NO       DI Vater: H2         ADaPT -       Other:       Other:         'III   Level IV       None: NO       DI Water: H2         ADaPT -       None: NO       DI Water: H2         Cool: Cool       MeOH: M8         H3, PO4: H2       NaOH: ABIS         NaCate+NaOH: Zn       NaOH: ABIS         NaOH: Ascorbic Acid: SAPC       Sample Comments         Sample Comments       Interments         'III   III   IIII   IIIIIIIIIIIIIIIIIII	6 4		Rel		and n				12														+							Irces				
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Work Crder No:       H344501         'Page 1_ of 1       Page 1_ of 1         'Work Order Comments       Preservative Codes         'III   Level III   PST/UST   RRP   Level IV       None: NO       DI Vater: H2         ADaPT -       Other:       Other:         'III   Level IV       None: NO       DI Water: H2         ADaPT -       None: NO       DI Water: H2         Cool: Cool       MeOH: M8         H3, PO4: H2       NaOH: ABIS         NaCate+NaOH: Zn       NaOH: ABIS         NaOH: Ascorbic Acid: SAPC       Sample Comments         Sample Comments       Interments         'III   III   IIII   IIIIIIIIIIIIIIIIIII	-				ource		$\vdash$		-	+-	$\left  \right $	+	+	+									-	EST		Delivera	Reporti	State o	Dronera					
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Received by OCD: 10/22/2024 9:10:46 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Mike Carmona Carmona Resources 310 W Wall St Ste 500 Midland, Texas 79701 Generated 9/24/2024 11:38:54 AM

# JOB DESCRIPTION

Hudgens #001 Lea Co, NM

# **JOB NUMBER**

880-48804-1

EOL

RT OR ona ces II St 500

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

AMER

Generated 9/24/2024 11:38:54 AM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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	Definitions/Glossary		
Client: Carmor		Job ID: 880-48804-1	
Project/Site: H	udgens #001	SDG: Lea Co, NM	2
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA	N		5
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		8
U	Indicates the analyte was analyzed for but not detected.		
Glossary			9
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)		12
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)		

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC

RER

RPD

TEF TEQ

TNTC

RL

# **Case Narrative**

#### Client: Carmona Resources Project: Hudgens #001

## Job ID: 880-48804-1

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#### Job ID: 880-48804-1

# Eurofins Midland

#### Job Narrative 880-48804-1

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 9/23/2024 8:38 AM. 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 2.2°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-3 (4.25') (880-48804-1) and SW-4 (4.25') (880-48804-2).

#### GC VOA

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

#### Diesel Range Organics

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-91441 and analytical batch 880-91462 was outside the upper control limits.

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 880-91449 and analytical batch 880-91460 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

**Eurofins Midland** 

# **Client Sample Results**

Client: Carmona Resources Project/Site: Hudgens #001

## Client Sample ID: SW-3 (4.25')

Date Collected: 09/20/24 00:00 Date Received: 09/23/24 08:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/24 09:41	09/23/24 16:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/24 09:41	09/23/24 16:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/24 09:41	09/23/24 16:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/23/24 09:41	09/23/24 16:41	1
o-Xylene	0.00300		0.00200		mg/Kg		09/23/24 09:41	09/23/24 16:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/23/24 09:41	09/23/24 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				09/23/24 09:41	09/23/24 16:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130				09/23/24 09:41	09/23/24 16:41	1
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/23/24 16:41	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	<50.0	U	50.0		mg/Kg			09/24/24 02:23	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/23/24 09:26	09/24/24 02:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/23/24 09:26	09/24/24 02:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/24 09:26	09/24/24 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				09/23/24 09:26	09/24/24 02:23	1
o-Terphenyl	85		70 - 130				09/23/24 09:26	09/24/24 02:23	1
Method: EPA 300.0 - Anions, Ior	n Chromatograp	ohy - Solubl	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			09/23/24 12:59	1
Client Sample ID: SW-4 (4.2	5')						Lab Sam	ple ID: 880-4	8804-2
ate Collected: 09/20/24 00:00								Matri	x: Solid
ate Received: 09/23/24 08:38									
Date Received: 09/23/24 08:38 - Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	)						
-	• •	ounds (GC Qualifier	) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8021B - Volatile	• •		·	MDL	Unit mg/Kg	D	Prepared 09/23/24 09:41	Analyzed 09/23/24 17:02	Dil Fac
Analyte	Result	Qualifier U		MDL		<u> </u>	<u> </u>		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr) 1.4-Difluorobenzene (Surr)	94 96		70 <sub>-</sub> 130 70 - 130	09/23/24 09:41 09/23/24 09:41	09/23/24 17:02 09/23/24 17:02	1 1

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Job ID: 880-48804-1 SDG: Lea Co, NM

# Lab Sample ID: 880-48804-1

Matrix: Solid

5

# **Client Sample Results**

Job ID: 880-48804-1 SDG: Lea Co, NM

Matrix: Solid

Lab Sample ID: 880-48804-2

#### Client Sample ID: SW-4 (4.25')

Date Collected: 09/20/24 00:00 Date Received: 09/23/24 08:38

Client: Carmona Resources

Project/Site: Hudgens #001

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/23/24 17:02	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/24/24 02:41	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		09/23/24 09:26	09/24/24 02:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		09/23/24 09:26	09/24/24 02:41	1
C10-C28)									
Dil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/23/24 09:26	09/24/24 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				09/23/24 09:26	09/24/24 02:41	1
p-Terphenyl	84		70 - 130				09/23/24 09:26	09/24/24 02:41	1
Method: EPA 300.0 - Anions, Ion	Chromatogram	hv - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.03		5.01		mg/Kg			09/23/24 13:05	1

Client: Carmona Resources Project/Site: Hudgens #001 Job ID: 880-48804-1 SDG: Lea Co, NM

Prep Type: Total/NA

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-48804-1	SW-3 (4.25')	93	86	
880-48804-2	SW-4 (4.25')	94	96	
890-7143-A-11-D MS	Matrix Spike	125	109	
890-7143-A-11-E MSD	Matrix Spike Duplicate	106	102	
LCS 880-91429/1-A	Lab Control Sample	99	116	
LCSD 880-91429/2-A	Lab Control Sample Dup	104	103	
MB 880-91429/5-A	Method Blank	74	92	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acce
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-48804-1	SW-3 (4.25')	110	85	
880-48804-2	SW-4 (4.25')	107	84	
890-7144-A-7-F MS	Matrix Spike	102	90	
890-7144-A-7-G MSD	Matrix Spike Duplicate	102	88	
LCS 880-91441/2-A	Lab Control Sample	114	105	
LCSD 880-91441/3-A	Lab Control Sample Dup	115	103	
MB 880-91441/1-A	Method Blank	100	153 S1+	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Project/Site: Hudgens #001

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

_	iganio compo		-							
Lab Sample ID: MB 880-91429/ Matrix: Solid	5-A						Client Sa	mple ID: Metho Prep Type: <sup>-</sup>	Total/NA	4
Analysis Batch: 91435	МВ	МВ						Prep Batcl	1: 91429	5
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/24 08:30	09/23/24 11:50	1	
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/24 08:30	09/23/24 11:50	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/24 08:30	09/23/24 11:50	1	7
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/23/24 08:30	09/23/24 11:50	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/24 08:30	09/23/24 11:50	1	8
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/23/24 08:30	09/23/24 11:50	1	
	МВ	МВ								9
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	74		70 - 130				09/23/24 08:30	09/23/24 11:50	1	
1,4-Difluorobenzene (Surr)	92		70 - 130				09/23/24 08:30	09/23/24 11:50	1	

#### Lab Sample ID: LCS 880-91429/1-A Matrix: Solid

#### Analysis Batch: 91435

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09434		mg/Kg		94	70 - 130	
Toluene	0.100	0.08655		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.08979		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1692		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08512		mg/Kg		85	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

#### Lab Sample ID: LCSD 880-91429/2-A

#### Matrix: Solid

Analysis Batch: 91435							Prep	Batch:	91429
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07969		mg/Kg		80	70 - 130	17	35
Toluene	0.100	0.07414		mg/Kg		74	70 - 130	15	35
Ethylbenzene	0.100	0.07990		mg/Kg		80	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1901		mg/Kg		95	70 - 130	12	35
o-Xylene	0.100	0.09200		mg/Kg		92	70 - 130	8	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

# Lab Sample ID: 890-7143-A-11-D MS

#### Matrix: Solid Analysis Potoby 01425

Analysis Batch: 91435									Pre	o Batch: 91429
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.08396		mg/Kg		84	70 - 130	
Toluene	0.00238		0.0996	0.08231		mg/Kg		80	70 - 130	

**Eurofins Midland** 

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

Job ID: 880-48804-1 SDG: Lea Co, NM

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 91429

# **QC Sample Results**

Client: Carmona Resources Project/Site: Hudgens #001 Job ID: 880-48804-1 SDG: Lea Co, NM

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

Lab Sample ID: 890-7143-A-11	-D MS									Client	Sample ID:	Matrix	Spike
Matrix: Solid											Prep T	ype: To	tal/N/
Analysis Batch: 91435											Prep	Batch:	91429
-	Sample	Sam	ple	Spike	MS	MS					%Rec		
Analyte	Result	Qual	lifier	Added	Result	Qua	lifier	Unit	0	) %Rec	Limits		
Ethylbenzene	<0.00201	U		0.0996	0.08911			mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	<0.00402	U		0.199	0.1720			mg/Kg		86	70 - 130		
o-Xylene	<0.00201	U		0.0996	0.1061			mg/Kg		107	70 _ 130		
	MS	мs											
Surrogate	%Recovery		lifier	Limits									
4-Bromofluorobenzene (Surr)	125			70 - 130									
1,4-Difluorobenzene (Surr)	109			70 - 130									
,,													
Lab Sample ID: 890-7143-A-11	-E MSD							C	lient	Sample ID	: Matrix Sp		
Matrix: Solid											Prep T	уре: То	tal/N
Analysis Batch: 91435											Prep	Batch:	9142
	Sample	Sam	ple	Spike	MSD	MSD	)				%Rec		RP
Analyte	Result	Qual	lifier	Added	Result	Qua	lifier	Unit		0 %Rec	Limits	RPD	Lim
Benzene	<0.00201	U		0.100	0.08303			mg/Kg		83	70 - 130	1	3
Toluene	0.00238			0.100	0.07825			mg/Kg		76	70 - 130	5	3
Ethylbenzene	<0.00201	U		0.100	0.07873			mg/Kg		78	70 - 130	12	3
m-Xylene & p-Xylene	<0.00402	U		0.201	0.1831			mg/Kg		91	70 - 130	6	3
o-Xylene	<0.00201	U		0.100	0.08986			mg/Kg		89	70 - 130	17	3
	MSD	MSD	)										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	106			70 - 130									
1,4-Difluorobenzene (Surr)	102			70 - 130									
lathad: 9015P NM Diaca			vice (DP										
lethod: 8015B NM - Diese	Range O	yai											
Lab Sample ID: MB 880-91441	/ <b>1-A</b>									Client Sa	ample ID: N	<b>Nethod</b>	Blan
Matrix: Solid											Prep T	ype: To	tal/N
Analysis Batch: 91462											Prep	Batch:	9144
-		ΜВ	МВ										
Analyte	R	esult	Qualifier	F	RL	MDL	Unit		D	Prepared	Analyze	əd	Dil Fa
Gasoline Range Organics		<50.0	U	50	.0		mg/Kg		09	9/23/24 09:26	09/23/24 2	21:17	
(GRO)-C6-C10													
Diesel Range Organics (Over	<	<50.0	U	50	.0		mg/Kg		09	9/23/24 09:26	09/23/24 2	21:17	
C10-C28)				50	0		ma m/1/-			100/04 00:00	00/00/04 0	1.17	
Oil Range Organics (Over C28-C36)	<	\$50.0	U	50	.0		mg/Kg		09	9/23/24 09:26	09/23/24 2	1:17	
		MB	МВ										
	a ( <b>-</b>		Qualifier	l insite						Prepared	Analyze	he	Dil Fa
Surrogate	%Reco	overy	Quaimer	Limits	_					Ticpulcu		u	0
Surrogate 1-Chlorooctane	%Reco	100	Quaimer		_				09	0/23/24 09:26			2

# Eurofins Midland

Prep Type: Total/NA

Prep Batch: 91441

**Client Sample ID: Lab Control Sample** 

%Rec

Limits

70 - 130

70 - 130

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Lab Sample ID: LCS 880-91441/2-A

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Analysis Batch: 91462

Gasoline Range Organics

Diesel Range Organics (Over

LCS LCS

1034

847.6

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

103

85

Spike

Added

1000

1000

# **QC Sample Results**

Client: Carmona Resources Project/Site: Hudgens #001

(GRO)-C6-C10

Diesel Range Organics (Over

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

Lab Sample ID: LCS 880-914	441/2-A						Client	t Sample	D: Lab Co	ontrol S	ample
Matrix: Solid										Type: To	
Analysis Batch: 91462										Batch:	
											•••••
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	114		70 - 130								
o-Terphenyl	105		70 - 130								
Lab Sample ID: LCSD 880-9	1441/3-A					Clier	nt San	nole ID: I	Lab Contro	l Sampl	e Dun
Matrix: Solid										Type: To	
Analysis Batch: 91462										Batch:	
Analysis Baten. 91402			Spike		LCSD				%Rec	Baten.	RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1063	Quannel	mg/Kg		106	70 - 130	3	20
(GRO)-C6-C10			1000	1003		myrky		100	10 - 130	3	20
Diesel Range Organics (Over			1000	866.8		mg/Kg		87	70 - 130	2	20
C10-C28)				000.0				0,		-	20
- /	1000	1000									
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane		Quaimer	70 - 130								
o-Terphenyl	103		70 - 130 70 - 130								
5- Terphenyi	103		70 - 130								
Lab Sample ID: 890-7144-A-	7-F MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 91462										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0		999	754.3		mg/Kg		76	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	999	760.6		mg/Kg		76	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	90		70 - 130								
· ·											
Lab Sample ID: 890-7144-A-	7-G MSD					CI	ient Sa	ample IC	): Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 91462										Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	999	765.5		mg/Kg		77	70 - 130	1	20
(000) 00 040						5. 5				-	-

<50.0 U

SDG: Lea Co, NM

Job ID: 880-48804-1

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**Eurofins Midland** 

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20

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999

745.1

mg/Kg

75

70 - 130

# **QC Sample Results**

Client: Carmona Resources Project/Site: Hudgens #001 Job ID: 880-48804-1 SDG: Lea Co, NM

# Method: 300.0 - Anions, Ion Chromatography

_ Lab Sample ID: MB 880-91449/1	-A											Client S	ample ID:	Method	Blank
Matrix: Solid														Type: S	
Analysis Batch: 91460															
-		MB M	ИВ												
Analyte	R	esult (	Qualifier		RL		MDL	Unit		D	Р	repared	Analy	zed	Dil Fac
Chloride	<	<5.00 l	J		5.00			mg/Kg	)				09/23/24	12:16	1
Lab Sample ID: LCS 880-91449/	2-A									Clie	ent	Sample	D: Lab C	ontrol S	ample
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 91460															
				Spike		LCS	LCS						%Rec		
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
_Chloride				250		238.9			mg/Kg			96	90 - 110		
Lab Sample ID: LCSD 880-9144	9/3-A								Cli	ent S	am	ple ID: I	Lab Contr	ol Samp	le Dup
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 91460															
				Spike		LCSD	LCSI	D					%Rec		RPD
Analyte				Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		236.4			mg/Kg			95	90 - 110	1	20
_ Lab Sample ID: 880-48786-A-1-0	CMS											Client	Sample II	D: Matrix	Spike
Matrix: Solid													Prep	Type: S	oluble
Analysis Batch: 91460															
	Sample	Sampl	le	Spike		MS	MS						%Rec		
Analyte	Result	Qualif	ier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Chloride	920	F1		249		1127	F1		mg/Kg			83	90 - 110		
- Lab Sample ID: 880-48786-A-1-E	D MSD									Client	Sa	mple ID	): Matrix S	pike Du	plicate
Matrix: Solid														Type: S	
Analysis Batch: 91460															
	Sample	Sampl	le	Spike		MSD	MSD						%Rec		RPD
Analyte	Result	Qualif	ier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	920	F1		249		1125	F1		mg/Kg			83	90 - 110	0	20

# **QC** Association Summary

Client: Carmona Resources Project/Site: Hudgens #001

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Job ID: 880-48804-1 SDG: Lea Co, NM

# GC VOA

## Prep Batch: 91429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-48804-1	SW-3 (4.25')	Total/NA	Solid	5035	
380-48804-2	SW-4 (4.25')	Total/NA	Solid	5035	
MB 880-91429/5-A	Method Blank	Total/NA	Solid	5035	
CS 880-91429/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-91429/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7143-A-11-D MS	Matrix Spike	Total/NA	Solid	5035	
390-7143-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48804-1	SW-3 (4.25')	Total/NA	Solid	8021B	91429
880-48804-2	SW-4 (4.25')	Total/NA	Solid	8021B	91429
MB 880-91429/5-A	Method Blank	Total/NA	Solid	8021B	91429
LCS 880-91429/1-A	Lab Control Sample	Total/NA	Solid	8021B	91429
LCSD 880-91429/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91429
890-7143-A-11-D MS	Matrix Spike	Total/NA	Solid	8021B	91429
890-7143-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	91429

#### Analysis Batch: 91621

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
880-48804-1	SW-3 (4.25')	Total/NA	Solid	Total BTEX	
880-48804-2	SW-4 (4.25')	Total/NA	Solid	Total BTEX	

# GC Semi VOA

#### Prep Batch: 91441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48804-1	SW-3 (4.25')	Total/NA	Solid	8015NM Prep	
880-48804-2	SW-4 (4.25')	Total/NA	Solid	8015NM Prep	
MB 880-91441/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91441/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91441/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7144-A-7-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7144-A-7-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 91462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48804-1	SW-3 (4.25')	Total/NA	Solid	8015B NM	91441
880-48804-2	SW-4 (4.25')	Total/NA	Solid	8015B NM	91441
MB 880-91441/1-A	Method Blank	Total/NA	Solid	8015B NM	91441
LCS 880-91441/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91441
LCSD 880-91441/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91441
890-7144-A-7-F MS	Matrix Spike	Total/NA	Solid	8015B NM	91441
890-7144-A-7-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	91441

#### Analysis Batch: 91619

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
880-48804-1	SW-3 (4.25')	Total/NA	Solid	8015 NM	
880-48804-2	SW-4 (4.25')	Total/NA	Solid	8015 NM	

Eurofins Midland

# **QC** Association Summary

Client: Carmona Resources Project/Site: Hudgens #001

Job ID: 880-48804-1

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SDG: Lea Co, NM

## HPLC/IC

## Leach Batch: 91449

ab Sample ID.	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
380-48804-1	SW-3 (4.25')	Soluble	Solid	DI Leach	
380-48804-2	SW-4 (4.25')	Soluble	Solid	DI Leach	
MB 880-91449/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-91449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-91449/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
	Matrix Spike	Soluble	Solid	DI Leach	
380-48786-A-1-C MS					
380-48786-A-1-C MS 380-48786-A-1-D MSD nalysis Batch: 91460 Lab Sample ID	Matrix Spike Duplicate	Soluble	Solid Matrix	DI Leach Method	Prep Batch
380-48786-A-1-D MSD nalysis Batch: 91460	Matrix Spike Duplicate				
380-48786-A-1-D MSD nalysis Batch: 91460 .ab Sample ID	Matrix Spike Duplicate Client Sample ID	Soluble Prep Type	Matrix	Method	
380-48786-A-1-D MSD nalysis Batch: 91460 Lab Sample ID 380-48804-1	Matrix Spike Duplicate         Client Sample ID         SW-3 (4.25')	Soluble Prep Type Soluble	Matrix Solid	Method 300.0	91449
380-48786-A-1-D MSD nalysis Batch: 91460 Lab Sample ID 380-48804-1 380-48804-2	Client Sample ID         SW-3 (4.25')         SW-4 (4.25')	Soluble Prep Type Soluble Soluble	Matrix Solid Solid	Method 300.0 300.0	91449 91449
380-48786-A-1-D MSD nalysis Batch: 91460 Lab Sample ID 380-48804-1 380-48804-2 MB 880-91449/1-A	Matrix Spike Duplicate          Client Sample ID         SW-3 (4.25')         SW-4 (4.25')         Method Blank	Soluble Prep Type Soluble Soluble Soluble	Matrix Solid Solid Solid	Method 300.0 300.0 300.0	91449 91449 91449 91449
380-48786-A-1-D MSD nalysis Batch: 91460 Lab Sample ID 380-48804-1 380-48804-2 WB 880-91449/1-A _CS 880-91449/2-A	Matrix Spike Duplicate Client Sample ID SW-3 (4.25') SW-4 (4.25') Method Blank Lab Control Sample	Soluble Prep Type Soluble Soluble Soluble Soluble Soluble Soluble	Matrix Solid Solid Solid Solid Solid	Method           300.0           300.0           300.0           300.0           300.0           300.0	91449 91449 91449 91449 91449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48804-1	SW-3 (4.25')	Soluble	Solid	300.0	91449
880-48804-2	SW-4 (4.25')	Soluble	Solid	300.0	91449
MB 880-91449/1-A	Method Blank	Soluble	Solid	300.0	91449
LCS 880-91449/2-A	Lab Control Sample	Soluble	Solid	300.0	91449
LCSD 880-91449/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91449
880-48786-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	91449
880-48786-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	91449

Eurofins Midland

Job ID: 880-48804-1 SDG: Lea Co, NM

#### Client Sample ID: SW-3 (4.25') Date Collected: 09/20/24 00:00 Date Received: 09/23/24 08:38

Client: Carmona Resources

Project/Site: Hudgens #001

	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	91429	09/23/24 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	91435	09/23/24 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91621	09/23/24 16:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			91619	09/24/24 02:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	91441	09/23/24 09:26	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	91462	09/24/24 02:23	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	91449	09/23/24 09:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	91460	09/23/24 12:59	СН	EET MID

# Client Sample ID: SW-4 (4.25')

#### Date Collected: 09/20/24 00:00 Date Received: 09/23/24 08:38

#### Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 91429 Total/NA Prep 4.99 g 5 mL 09/23/24 09:41 MNR EET MID Total/NA 8021B 5 mL 09/23/24 17:02 EET MID Analysis 1 5 mL 91435 MNR Total/NA Total BTEX 91621 09/23/24 17:02 Analysis 1 A.I EET MID Total/NA Analysis 8015 NM 1 91619 09/24/24 02:41 AJ EET MID Total/NA Prep 8015NM Prep 91441 EL 10.06 g 10 mL 09/23/24 09:26 EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 91462 09/24/24 02:41 TKC EET MID 1 Soluble Leach **DI Leach** 4.99 g 50 mL 91449 09/23/24 09:39 SA EET MID Soluble Analysis 300.0 50 mL 50 mL 91460 09/23/24 13:05 СН EET MID 1

#### Laboratory References:

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

**Eurofins Midland** 

# Lab Sample ID: 880-48804-1

Lab Sample ID: 880-48804-2

Matrix: Solid

Matrix: Solid

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Client: Carmona Resources Project/Site: Hudgens #001

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

uthority	Progra	m	Identification Number	Expiration Date
exas	NELAP	)	T104704400	06-30-25
The following analytes	and the strate of the Alata management land		is allowed by a second se	t may include analytee
for which the agency of	loes not offer certification.	Matrix	ied by the governing authority. This lis Analvte	t may include analytes
• ,		·	Analyte Total TPH	t may include analytes

10

Job ID: 880-48804-1

SDG: Lea Co, NM

Eurofins Midland

# **Method Summary**

Client: Carmona Resources Project/Site: Hudgens #001 Job ID: 880-48804-1 SDG: Lea Co, NM

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

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

# Sample Summary

Client: Carmona Resources Project/Site: Hudgens #001 Job ID: 880-48804-1 SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-48804-1	SW-3 (4.25')	Solid	09/20/24 00:00	09/23/24 08:38
880-48804-2	SW-4 (4.25')	Solid	09/20/24 00:00	09/23/24 08:38

880-48804 Chain of Custody	Page1 of1	Work Order Comments	Program: UST/PST DRP Brownfields RRC Duperfund	[		: EDD ADaPT C Other:	Preservative Codes	None: NO DI Water: H <sub>2</sub> O	10		H <sub>2</sub> S04: H <sub>2</sub> NaOH: Na		HOLI NAHSO4: NABIS		NaOH+Ascorbic Acid: SAPC	Sample Comments							com	Received by: (Signature) Date/Time			Revised Date 05012020 Rev. 2020 1
Chain of Custody		Carmona Resources	Program: U	State of Project:	Reporting:Le	com Deliverables: EDD	ANALYSIS REQUEST		(	WBC		_	· OAS		£108	Нат		╋	_				Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com	ime Relinquished by: (Signature)	\$ 38 <sup>2</sup> 2	ω	9 10 11 12 13 14
Chain of		(if different)	Company Name:	Address:	City, State ZIP:	Email: ThielkeA@Carmonaresources.com		JRush Code	24 HR			S	Para		0.0	1	Comp		< - ג				moehring@carmonaresou	Date/Time	0123/2H		
		Bill to:	C	Ado	Cit	Email: Th	Turn Around	Routine	Due Date:			Yes No Wet Ice:	Thermometer ID:	Temperature Reading:	Corrected Temperature:			: >	×				Please send results to c	Repeated by: (Signature)	2	D	
		Ashton Thielke	Carmona Resources	310 West Wall Ste. 500	Midland, TX 79701	432-813-8988	Hudgens #001	2407	Lea Co, NM	CM		) Blank:	No No	AIN		Date	0		9/20/2024					gnature)			
		Project Manager: Ashi	Company Name: Carr	Address: 310	City, State ZIP: Midl	Phone: 432-	Project Name:	Project Number:	Project Location	Sampler's Name:	PO#	SAMPLE RECEIPT	Received Intact:	Sample Custody Seals:	Total Containers:	Sample Identification	SW-3 (4 25)	CIM 4 /4 DEI	(.02.4) 4-000					Relinquished by: (Signature)	33	5	

Page 19 of 20

9/24/2024

Job Number: 880-48804-1 SDG Number: Lea Co, NM

List Source: Eurofins Midland

# Login Sample Receipt Checklist

Client: Carmona Resources

#### Login Number: 48804 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14



September 25, 2024

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

RE: HUDGENS #001

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received

09/25/24 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 09/19/24.

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701		Project: HUDGENS #001 Project Number: 2407 Project Manager: ASHTON THIELKE Fax To:								Reported: 25-Sep-24 08:49		
			BACKFII H2450	LL SAM 665-01 (Se								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	ories							
Inorganic Compounds												
Chloride	16.0		16.0	mg/kg	4	4091845	HM	18-Sep-24	4500-Cl-B			
Volatile Organic Compounds by 1	EPA Method	8021										
Benzene*	< 0.050		0.050	mg/kg	50	4091826	ЛН	18-Sep-24	8021B			
Toluene*	< 0.050		0.050	mg/kg	50	4091826	ЛН	18-Sep-24	8021B			
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4091826	ЛН	18-Sep-24	8021B			
Total Xylenes*	< 0.150		0.150	mg/kg	50	4091826	ЛН	18-Sep-24	8021B			
Total BTEX	< 0.300		0.300	mg/kg	50	4091826	JH	18-Sep-24	8021B			
Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5	-134	4091826	JH	18-Sep-24	8021B			
Petroleum Hydrocarbons by GC	FID											
GRO C6-C10*	<10.0		10.0	mg/kg	1	4091830	MS	18-Sep-24	8015B			
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4091830	MS	18-Sep-24	8015B			
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4091830	MS	18-Sep-24	8015B			
Surrogate: 1-Chlorooctane			105 %	48.2	-134	4091830	MS	18-Sep-24	8015B			
Surrogate: 1-Chlorooctadecane	118 %	49.1	-148	4091830	MS	18-Sep-24 8015B						

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


## Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: HUD Project Number: 2407 Project Manager: ASH Fax To:	)7	Reported: 25-Sep-24 08:49
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### **Inorganic Compounds - Quality Control**

	Cardinal Laboratories										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 4091845 - 1:4 DI Water											
Blank (4091845-BLK1)				Prepared &	& Analyzed:	18-Sep-24					
Chloride	ND	16.0	mg/kg								
LCS (4091845-BS1)				Prepared &	& Analyzed:	18-Sep-24					
Chloride	416	16.0	mg/kg	400		104	80-120				
LCS Dup (4091845-BSD1) Prepared & Analyzed: 18-Sep-24											
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20		

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#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project Number:	HUDGENS #001 2407 ASHTON THIELKE	Reported: 25-Sep-24 08:49
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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories
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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4091826 - Volatiles										
Blank (4091826-BLK1)				Prepared &	Analyzed:	18-Sep-24	ļ			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	71.5-134			
LCS (4091826-BS1)				Prepared &	Analyzed:	18-Sep-24	Ļ			
Benzene	2.21	0.050	mg/kg	2.00		111	82.8-130			
Toluene	2.29	0.050	mg/kg	2.00		115	86-128			
Ethylbenzene	2.34	0.050	mg/kg	2.00		117	85.9-128			
m,p-Xylene	4.74	0.100	mg/kg	4.00		119	89-129			
o-Xylene	2.25	0.050	mg/kg	2.00		112	86.1-125			
Total Xylenes	6.99	0.150	mg/kg	6.00		117	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	71.5-134			
LCS Dup (4091826-BSD1)				Prepared &	Analyzed:	18-Sep-24	ļ			
Benzene	2.06	0.050	mg/kg	2.00		103	82.8-130	7.17	15.8	
Toluene	2.15	0.050	mg/kg	2.00		107	86-128	6.50	15.9	
Ethylbenzene	2.19	0.050	mg/kg	2.00		110	85.9-128	6.51	16	
m,p-Xylene	4.48	0.100	mg/kg	4.00		112	89-129	5.66	16.2	
o-Xylene	2.12	0.050	mg/kg	2.00		106	86.1-125	5.93	16.7	
Total Xylenes	6.60	0.150	mg/kg	6.00		110	88.2-128	5.75	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	71.5-134			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project Number:	HUDGENS #001 2407 ASHTON THIELKE	Reported: 25-Sep-24 08:49
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### Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

		Reporting	<b>T</b> T <b>1</b> .	Spike	Source	AUDEC	%REC	000	RPD	<b>N</b> T -
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4091830 - General Prep - Organics										
Blank (4091830-BLK1)				Prepared &	Analyzed:	18-Sep-24	ļ			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	48.2-134			
Surrogate: 1-Chlorooctadecane	56.7		mg/kg	50.0		113	49.1-148			
LCS (4091830-BS1)				Prepared &	z Analyzed:	18-Sep-24	Ļ			
GRO C6-C10	214	10.0	mg/kg	200		107	66.4-123			
DRO >C10-C28	215	10.0	mg/kg	200		107	66.5-118			
Total TPH C6-C28	429	10.0	mg/kg	400		107	77.6-123			
Surrogate: 1-Chlorooctane	61.1		mg/kg	50.0		122	48.2-134			
Surrogate: 1-Chlorooctadecane	66.0		mg/kg	50.0		132	49.1-148			
LCS Dup (4091830-BSD1)				Prepared &	Analyzed:	18-Sep-24	Ļ			
GRO C6-C10	212	10.0	mg/kg	200		106	66.4-123	0.887	17.7	
DRO >C10-C28	209	10.0	mg/kg	200		104	66.5-118	2.67	21	
Total TPH C6-C28	421	10.0	mg/kg	400		105	77.6-123	1.78	18.5	
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0		120	48.2-134			
Surrogate: 1-Chlorooctadecane	64.3		mg/kg	50.0		129	49.1-148			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

			100000	Call Marks	Relinquished by: (Signature)	teustoner									-		Backst:11	Background-Sample -	Sample Identification		Total Containers:	Samp.3 Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPILE RECEIPT	PO 井	Sampler's Name:	Project Location	Project Number:	Project Name:			City, State ZIP: M	Address: 31	Company Name: C	Project Manager: A	
			m Ra		gnature)	ner degr				-						-	K.	1 q/18/2024	Date Date	-		Yes No NA	Yes No MA	Ves No	Temp Blank:		CM	Lea Co, NM	2407	Hudgens #001		432-813-8988	Midland, TX 79701	310 West Wall Ste. 500	Carmona Resources	Ashton Thielke	
			Mana Ma	IIIALA I	Received by: 19	uste l	)		Please send results to cmoehring@carmonaresources com and more				-				4	DA I	Time	Concred reliberative	Corrected Tem	Temperature Reading	Correction Factor	e l	Yes NO W		,			9							
•			1000	(amphilic	Simple	TDC			esults to cr			_			+	+	>	<	Soil	Jeialute.	- Sector	eading.	OF:	Ģ	Wet Ice:			Due Date:	] Routine	Turn Around	Email: Th	1 -	2	Ac	0	B	
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	•	•	42-8-64		,	25. 2	-		armonaroo									1	# of Cont						eters	5		Cone	Pres.		monaresou						
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		50 A	• •	Relinquished by: (Signature)				irmona@carmona																						ANAI VOIS DE						•	
		2 2				*		@carmonaresources.com														_							-MOROT	01601	Deliverables: EDD	Reporting:	omic of Fluject.	Program.:			
	2			Received by: (Signature)				Com													_	_									S: EDD	Reporting:Level II Level III	ivject.	State of Broinst:			
				: (Signature	Ì	•																н	OLD								ADaPT			PRP Brow	VORK UTGER		
																			Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na2S2O3: NaSO3	NaHSO4: NABIS	H <sub>3</sub> PO <sub>4</sub> : HP	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	Preservative Codes		PT Other:	PST/UST RRP		vnfields RRC	work Urder Comments	r aye	Dawa
				Date/Time														CIIIOIIIO	mments	cid SAPC	- Zn				NaOH: Na	HNO3: HN .	MeOH: Me	DI Water: H <sub>2</sub> O	ve Codes				Ÿ	uperfund			

# **Received by OCD: 10/22/2024 9:10:46 AM**

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Chain of Custody

Page 8 of 8

Work Order No:

# **APPENDIX F**

# CARMONA RESOURCES

*Received by OCD: 10/22/2024 9:10:46 AM* 

Page 151 of 170



USDA Natural Resources Conservation Service Released to Imaging: 11/1/2024 1:32:29 PM Web Soil Survey National Cooperative Soil Survey 10/11/2024 Page 1 of 3



# Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Kg	Kimbrough gravelly loam, 0 to 3 percent slopes	0.7	100.0%
Totals for Area of Interest		0.7	100.0%



# Lea County, New Mexico

# Kg—Kimbrough gravelly loam, 0 to 3 percent slopes

# Map Unit Setting

National map unit symbol: 2tw42 Elevation: 2,500 to 4,800 feet Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F Frost-free period: 180 to 220 days Farmland classification: Not prime farmland

## **Map Unit Composition**

Kimbrough and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

## **Description of Kimbrough**

## Setting

Landform: Playa rims, plains Down-slope shape: Convex, linear Across-slope shape: Concave, linear Parent material: Loamy eolian deposits derived from sedimentary rock

## **Typical profile**

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

## **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

## Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s

*Hydrologic Soil Group:* D *Ecological site:* R077DY049TX - Very Shallow 12-17" PZ *Hydric soil rating:* No

# **Minor Components**

## Eunice

Percent of map unit: 6 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Convex Ecological site: R077DY049TX - Very Shallow 12-17" PZ Hydric soil rating: No

## Spraberry

Percent of map unit: 5 percent Landform: Playa rims, plains Down-slope shape: Convex, linear Across-slope shape: Linear Ecological site: R077DY049TX - Very Shallow 12-17" PZ Hydric soil rating: No

## Kenhill

Percent of map unit: 4 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: R077DY038TX - Clay Loam 12-17" PZ Hydric soil rating: No

# **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 21, Sep 3, 2024



(29)

# BLM SERIAL #:

## COMPANY REFERENCE:

# 3.4 Seed Mixture 3, for Shallow Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass (Setaria magrostachya)	1.0
Green Spangletop (Leptochloa dubia)	2.0
Side oats Grama (Bouteloua curtipendula)	5.0

\*Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

From:	Ashton Thielke
То:	Hall, Brittany, EMNRD
Cc:	Barnhill, Amy
Subject:	[EXTERNAL] NPAC0801736858 - Hudgens #1 - Well Investigation
Date:	Thursday, October 31, 2024 8:07:06 AM
Attachments:	image001.png
	NPAC0801736858 - Hudgens #1 - Site Map and Photolog.pdf

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

Good morning Brittany,

After our discussion earlier this week, I sent one of my field staff to investigate and document the absence of the historic water wells around our remediation area that we just concluded on.

After discussing with the field staff and reviewing the photos they took, no windmills or wells were found in the area.

Both L-04005 & L-678 are no longer onsite.

Please see the attached site map and photolog created following the field visit.

Let me know if you have any questions!

Thanks!

Ashton Thielke Environmenal Manager 310 West Wall Street, Suite 500 Midland TX, 79701 M: 432-813-8988 C: 281-753-5659 <u>ThielkeA@carmonaresources.com</u> <u>Environmental Consulting Firm - Carmona Resources</u>

CARMONA RESOURCES



Received by OCD: 10/22/2024 9:10:46 AM HISTORIC Well Investigation

-

in the second

Hudgens #001 Chevron USA NPAC0801736858

75' - Drilled 1958 - L-04005

CHudgens #001

.

67' - Drilled 1957 - L-678

Google Earth Released to Imaging: 11/1/2024 1:32:29 PM Intege @ 2024 Airbus



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# PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph	No. 1	V I ™ 300 1 • I • I • I • I	NW 330	N	30 NE	60 60
Facility:	Hudgens #001	© 2°N (T	)	11"N, 103°19'	30"W ±19ft	▲ 3907ft
County:	Lea County, New Mexico					
<b>Description:</b> View North, ar No. L-04005.	ea of the historic water well under permit					0 Oct 2024, 15:37-4
Photograph	No. 2	<b>N</b>	NE	60 94 1 • 1 • 1 • 1	0 120	SE •   •   •   •
Facility:	Hudgens #001			11"N, 103°19		
County:	Lea County, New Mexico					
<b>Description:</b> View East, are No. L-04005.	ea of the historic water well under permit					0 Oct 2024, 15:37:
Photograph	No. 3	60 1 • 1 • 1 • 1 • 1 •	E 12	0 SE 150	<b>S</b> 180	210 SV
Facility:	Hudgens #001	• 140°SE	(T) 🖲 32°5	6'12"N, 103°1	9'30"W ±9f	t ▲ 3896ft
County:	Lea County, New Mexico					3 Mag
<b>Description:</b> View Sputhea: permit No. L-0	st, area of the historic water well under 4005.					0 Oct 2024, 15 38-

# **PHOTOGRAPHIC LOG**

Chevron U.S.A., Inc.



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# PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph	No. 7	E S SV/ W NV
Facility:	Hudgens #001	<sup>150</sup> 180 210 240 270 300 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 •
County:	Lea County, New Mexico	
Description: View Southwe permit No. L-6	est, area of the historic water well unde	er 30 Oct 2024, 15:59:53
Photograph	No. 8	SW W NW N 10 240 270 30 330 0 330 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 •
Facility:	Hudgens #001	© 301°NW (T)
County:	Lea County, New Mexico	
Description: View Northwe permit No. L-6	st, area of the historic water well unde 378.	r 30 Oct 2024, 15:59:57
Photograph	No. 9	NW         N         NE         E           300         0         30         60         90           1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 •
Facility:	Hudgens #001	© 9°N (T)
County:	Lea County, New Mexico	
<b>Description:</b> View North, an No. L-678.	rea of the historic water well under per	mit
		30 Oct 2024, 16:00:34

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

District III

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

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

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

QUESTIONS

Action 394428

QUESTIONS	
	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	394428
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nPAC0801736858
Incident Name	NPAC0801736858 HUDGENS #001 @ 30-025-29712
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-29712] HUDGENS #001

#### Location of Release Source

Please answer all the questions in this group.	
Site Name	HUDGENS #001
Date Release Discovered	01/01/2008
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	Νο
Has this release endangered or does it have a reasonable probability of endangering public health	Νο
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: Freeze   Tank (Any)   Produced Water   Released: 40 BBL   Recovered: 32 BBL   Lost: 8 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)	Not answered.

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

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QUESTIONS, Page 2

Action 394428

**QUESTIONS** (continued) Operator: OGRID: CHEVRON U S A INC 4323 6301 Deauville Blvd Action Number Midland, TX 79706 394428 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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.
ſ	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	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	Тгие
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.
	liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted 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 rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required bases 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 rt 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: Amy Barnhill Title: Waste & Water Specialist

Email: ABarnhill@chevron.com

Date: 10/22/2024

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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 394428

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**QUESTIONS** (continued)

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	394428
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	id the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 500 and 1000 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Νο

#### Remediation Plan

	hat apply or are indicated. This information must be provided t	
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	<b>:</b> (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	7400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	526
GRO+DRO	(EPA SW-846 Method 8015M)	413
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes complet nelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM
which includes the anticipated tim		ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM 09/16/2024
which includes the anticipated time On what estimated date wi	nelines for beginning and completing the remediation.	
which includes the anticipated tim On what estimated date wi On what date will (or did) th	nelines for beginning and completing the remediation.	09/16/2024
which includes the anticipated tim On what estimated date wi On what date will (or did) th On what date will (or was)	nelines for beginning and completing the remediation. Ill the remediation commence he final sampling or liner inspection occur	09/16/2024 09/16/2024
which includes the anticipated time On what estimated date wi On what date will (or did) the On what date will (or was) What is the estimated surface	nelines for beginning and completing the remediation. Ill the remediation commence the final sampling or liner inspection occur the remediation complete(d)	09/16/2024           09/16/2024           09/20/2024
which includes the anticipated time On what estimated date wi On what date will (or did) the On what date will (or was) What is the estimated surfate What is the estimated volume	elines for beginning and completing the remediation. Il the remediation commence the final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed	09/16/2024           09/16/2024           09/20/2024           2360
which includes the anticipated tim On what estimated date wi On what date will (or did) th On what date will (or was) What is the estimated surfa What is the estimated volum What is the estimated surfa	elines for beginning and completing the remediation. Ill the remediation commence the final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed me (in cubic yards) that will be reclaimed	09/16/2024       09/16/2024       09/20/2024       2360       360

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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District III

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

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

QUESTIONS, Page 4

Action 394428

**QUESTIONS** (continued) Operator OGRID: CHEVRON U.S.A.INC 4323 6301 Deauville Blvd Action Number 394428 Midland, TX 79706 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation) QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal LEA LAND LANDFILL [fEEM0112342028] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations Name: Amy Barnhill Title: Waste & Water Specialist I hereby agree and sign off to the above statement Email: ABarnhill@chevron.com Date: 10/22/2024

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 394428

QUESTIONS (continued)		
Operator: CHEVRON U S A INC	OGRID: 4323	
6301 Deauville Blvd Midland, TX 79706	Action Number: 394428	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
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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District III

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

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

QUESTIONS, Page 6

Action 394428

QUESTIONS (continued)		
Operator:	OGRID:	
CHEVRON U S A INC	4323	
6301 Deauville Blvd	Action Number:	
Midland, TX 79706	394428	
	Action Type:	
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	383246
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/16/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	2925

#### **Remediation Closure Request**

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	2360
What was the total volume (cubic yards) remediated	360
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	13100
What was the total volume (in cubic yards) reclaimed	360
Summarize any additional remediation activities not included by answers (above)	"After a new site assessment to reassess the tank battery where this spill occurred, remediation was required. The area was dug to a depth of 4.25 to address chloride and TPH impact onsite. Sidewalls were extended laterally during the remediation process to achieve acceptable clean up standards. The area was backfill with topsoil from the landowner's backfill pit and was reseeded per Landowner specs."
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
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 releas the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 repor	uses 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 ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist

by agree and sign off to the above statement Email: ABarnhill@chevron.com Date: 10/22/2024

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District III

Operator:

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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

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QUESTIONS, Page 7

Action 394428

**QUESTIONS** (continued) OGRID: CHEVRON U S A INC 4323 6301 Deauville Blvd Action Number Midland, TX 79706 394428

Action Type:

[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

### QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	13100	
What was the total volume of replacement material (in cubic yards) for this site	360	
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a 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.		
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	10/09/2024	
Summarize any additional reclamation activities not included by answers (above)	The entire remediation area as well as area where truck traffic impacted the landowners land were all ripped and reseeded before leaving the site to leave no trace of tracks onsite. Please see photolog in report for documentation of vegetation regrowth.	
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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 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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 10/22/2024	

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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 8

Action 394428

**QUESTIONS** (continued) Operator: OGRID: CHEVRON U S A INC 4323 6301 Deauville Blvd Action Number Midland, TX 79706 394428 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied

Requesting a restoration complete approval with this submission

No Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.

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District IV

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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

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CONDITIONS

Action 394428

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	394428
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	Reclamation report approved.	11/1/2024
bhall	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.	11/1/2024
bhall	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Sampling notification was not given for samples collected on 9/20/2024. Please include sample times on all chain of custody(s) in future reports.	11/1/2024