

CARMONA RESOURCES



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

CARMONA RESOURCES



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

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

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



TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 INITIAL SITE ASSESSMENT ACTIVITIES

5.0 SECONDARY SITE ASSESSMENT ACTIVITIES

6.0 RECLAMATION ACTIVITIES

7.0 CONCLUSIONS

FIGURES

FIGURE 1A/B	OVERVIEW	FIGURE 2	TOPOGRAPHIC
FIGURE 3	SAMPLE LOCATION	FIGURE 4A/B	EXCAVATION DEPTH
FIGURE 5	RECLAMATION		

APPENDICES

APPENDIX A	TABLES
APPENDIX B	PHOTOS
APPENDIX C	INITIAL AND FINAL C-141/NMOC D CORRESPONDENCE
APPENDIX D	SITE CHARACTERIZATION AND GROUNDWATER
APPENDIX E	LABORATORY REPORTS
APPENDIX F	SOIL MAP

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

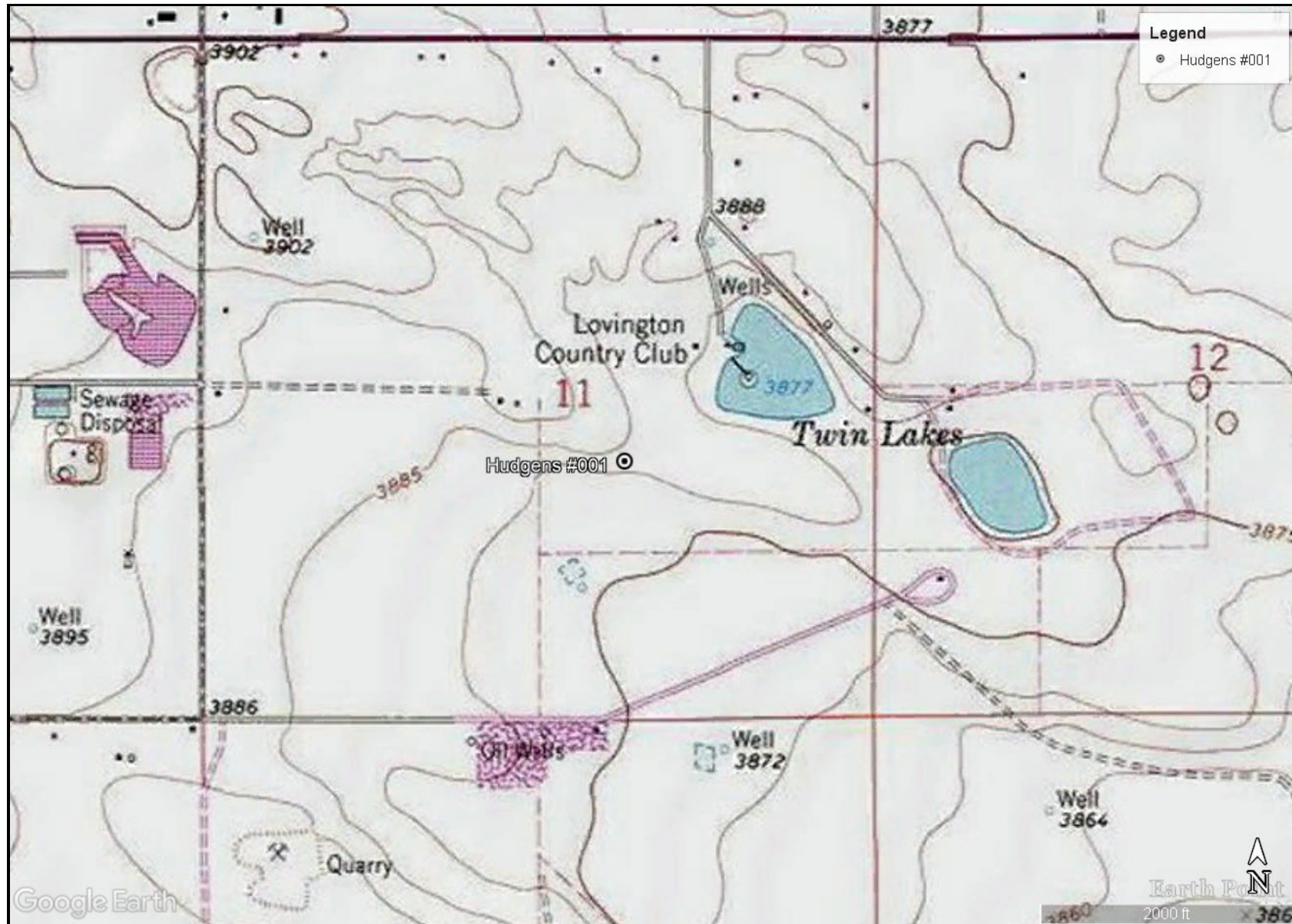
FIGURES

CARMONA RESOURCES









TOPOGRAPHIC MAP
 CHEVRON U.S.A., INC.
 HUDGENS #001 (01.01.2008)
 LEA COUNTY, NEW MEXICO
 32.9349823°, 103.3231506°

CARMONA RESOURCES



FIGURE 2



SAMPLE LOCATION MAP
CHEVRON U.S.A., INC.
HUDGENS #001 (01.01.2008)
LEA COUNTY, NEW MEXICO
32.9349823°, 103.3231506°



FIGURE 3







APPENDIX A

CARMONA RESOURCES



Table 1
Chevron
Hudgens #001
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
AH-2	1/5/2022	0-6"	ND	ND	ND	ND	ND	ND	ND	ND	ND	6,350
	"	6-12"	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,510
BH-1	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
	"	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
	"	6-12"	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,670
BH-2	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
	"	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
BH-3	7/25/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	"	2'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	"	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
Regulatory Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – 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)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	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 Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Floor Sample

Table 2
Chevron
Hudgens #001
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
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
	9/19/2024	4.25'	<10.0	22.6	10.8	33.4	<0.050	<0.050	<0.050	<0.150	<0.300	384
SW-3	9/18/2024	4.25'	<10.0	99.1	32.4	132	<0.050	<0.050	<0.050	<0.150	<0.300	608
	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
SW-4	9/18/2024	4.25'	<10.0	28.9	<10.0	28.9	<0.050	<0.050	<0.050	<0.150	<0.300	640
	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 Criteria^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(SW) Sidewall Sample

Removed

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 1**Facility:** Hudgens #001**County:** Lea County, New Mexico**Description:**

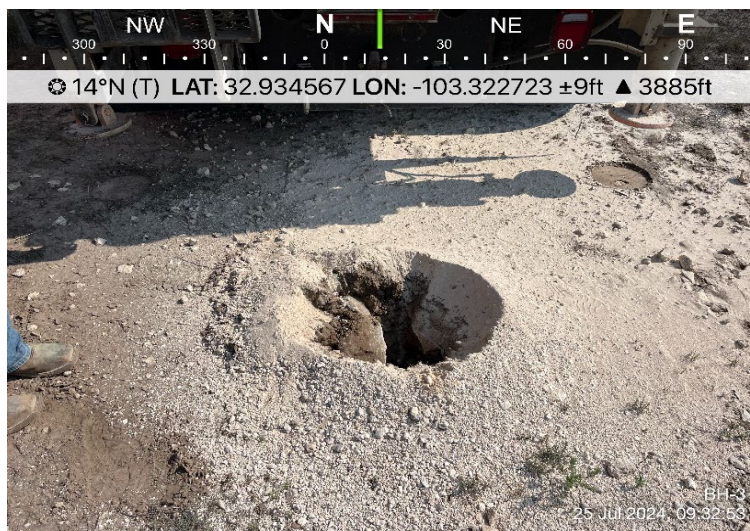
View Northwest, area of BH-1.

**Photograph No. 2****Facility:** Hudgens #001**County:** Lea County, New Mexico**Description:**

View Northwest, area of BH-2.

**Photograph No. 3****Facility:** Hudgens #001**County:** Lea County, New Mexico**Description:**

View North, area of BH-3.



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 4**Facility:** Hudgens #001**County:** Lea County, New Mexico**Description:**

View West, area of CS-1 through CS-12.

**Photograph No. 5****Facility:** Hudgens #001**County:** Lea County, New Mexico**Description:**

View North, area of CS-1 through CS-12.

**Photograph No. 6****Facility:** Hudgens #001**County:** Lea County, New Mexico**Description:**

View East, area of CS-1 through CS-12.



PHOTOGRAPHIC LOG
Chevron U.S.A., Inc.

Photograph No. 7

Facility: Hudgens #001

County: Lea County, New Mexico

Description:
View West, backfilled and reclaimed area.



Photograph No. 8

Facility: Hudgens #001

County: Lea County, New Mexico

Description:
View East, backfilled and reclaimed area.

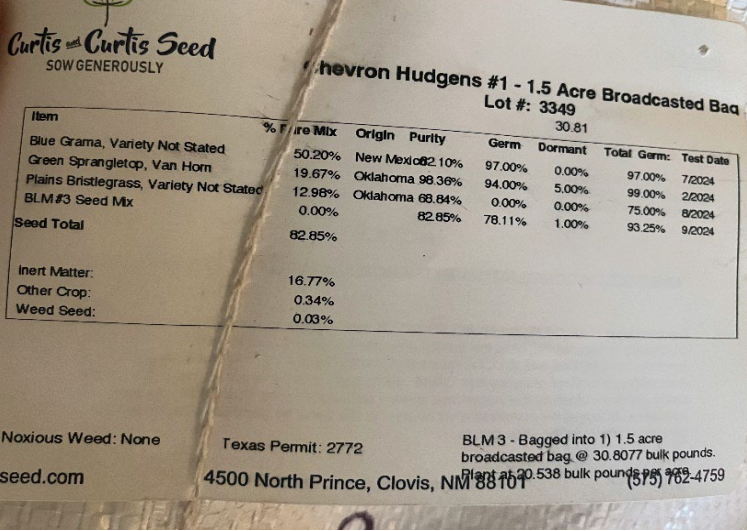


Photograph No. 9

Facility: Hudgens #001

County: Lea County, New Mexico

Description:
Seed mix used per landowner specs.



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 10

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View South, reseeding operation in progress.



Photograph No. 11

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View South, reseeding operation in progress.



Photograph No. 12

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View North, area of backfill material.



APPENDIX C

CARMONA RESOURCES



District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS

Action 309507

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 309507
	Action Type: [NOTIFY] 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

Action 309507

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 309507
	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.	1/30/2024

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

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

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

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

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

QUESTIONS

Action 383246

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 383246
	Action Type: [NOTIFY] 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

Action 383246

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 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

APPENDIX D

CARMONA RESOURCES



Nearest water well

Chevron USA

Legend



- 0.41 Miles
- 0.49 Miles
- 0.50 Mile Radius
- Hudgens #001 (01.01.2008)
- NMSEO Water Well
- Tank Battery - Area of Concern



Low Karst

Chevron USA

Legend

-  Hudgens #001 (01.01.2008)
-  Low

Hudgens #001 (01.01.2008)





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

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






























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(quarters are smallest to largest)

(meters)

(In feet)

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
















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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	TwS	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
L 07954		L	LE		NW	NE	11	16S	36E	656768.0	3646129.0 *		837	120	85	35
L 09653		L	LE		NW	NE	11	16S	36E	656768.0	3646129.0 *		837	135	65	70
L 09746		L	LE		NW	NE	11	16S	36E	656768.0	3646129.0 *		837	157	70	87
L 09053 POD2		L	LE	SW	NW	NE	11	16S	36E	656920.3	3646128.9		843	168	74	94
L 00678 POD5		L	LE		SW	SW	12	16S	36E	657589.0	3644933.0 *		857	126	105	21
L 00678 POD5	R	L	LE		SW	SW	12	16S	36E	657589.0	3644933.0 *		857	126	105	21
L 04444		L	LE		SW	SW	12	16S	36E	657589.0	3644933.0 *		857	120	100	20
L 00733		L	LE		NE	NE	14	16S	36E	657194.0	3644521.0 *		861	104	56	48
L 00733	R	L	LE		NE	NE	14	16S	36E	657194.0	3644521.0 *		861	104	56	48
L 12259 POD1		L	LE							657629.7	3645564.1		862	195		
L 00350 POD17		L	LE	NE	SW	SW	12	16S	36E	657653.2	3645065.7		872	236	75	161
L 12778 POD1		L	LE	NW	NE	NW	14	16S	36E	656242.8	3644623.9		877	195		
L 00307 POD2		L	LE	NE	NW	SW	12	16S	36E	657683.0	3645436.0 *		883	110	55	55
L 03172	R	L	LE	NE	NW	SW	12	16S	36E	657683.0	3645436.0 *		883	92	48	44
L 04434		L	LE			NW	11	16S	36E	656170.0	3645911.0 *		890	100	74	26
L 06102		L	LE			NW	11	16S	36E	656170.0	3645911.0 *		890	100	75	25
L 11693		L	LE		NE	NE	11	16S	36E	657170.0	3646137.0 *		917	135	69	66
L 09749		L	LE	SE	SW	NW	12	16S	36E	657677.0	3645640.0 *		933	135	70	65
L 09793		L	LE	SE	SW	NW	12	16S	36E	657677.0	3645640.0 *		933	135	90	45
L 11742		L	LE	SE	SW	NW	12	16S	36E	657677.0	3645640.0 *		933	152	73	79
L 05517		L	LE	NE	NW	NE	11	16S	36E	656867.0	3646228.0 *		937	95	75	20
L 07032		L	LE	NE	NW	NE	11	16S	36E	656867.0	3646228.0 *		937	122	80	42
L 00265		L	LE	NW	NW	SW	11	16S	36E	655874.0	3645405.0 *		943	120	45	75
L 06498		L	LE	NW	NW	NE	11	16S	36E	656667.0	3646228.0 *		946	95	70	25
L 14426 POD1		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 *		978	144	65	79
L 04099		L	LE	NE	NE	NW	11	16S	36E	656465.0	3646220.0 *		990	95	74	21
L 05808		L	LE	NE	NE	NW	11	16S	36E	656465.0	3646220.0 *		990	116	85	31
L 00135		L	LE	SW	SW	NW	11	16S	36E	655868.0	3645609.0 *		994	98		



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(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
L 00135	R	L	LE	SW	SW	NW	11	16S	36E	655868.0	3645609.0	*		994	98	
L 00135 POD5		L	LE	SW	SW	NW	11	16S	36E	655868.0	3645609.0	*		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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

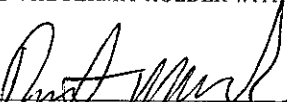
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210 JAN 20 10 10 17

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) 635487		WELL TAG ID NO. 221A8		OSE FILE NO(S). L14587		
	WELL OWNER NAME(S) SALLY OLIVAS				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS PO Box 667				CITY Louington	STATE NM	
					ZIP 88260		
WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32		MINUTES 56	SECONDS 26.0 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103		19	20.0 W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Louington Country Club, Allen Dr.							
2. DRILLING & CASING INFORMATION	LICENSE NO. 1477		NAME OF LICENSED DRILLER Robert MAUCH		NAME OF WELL DRILLING COMPANY M+W		
	DRILLING STARTED 1-23-19		DRILLING ENDED 1-24-19		DEPTH OF COMPLETED WELL (FT) 165	BORE HOLE DEPTH (FT) 165	
					DEPTH WATER FIRST ENCOUNTERED (FT) 85		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 85		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
	0	125	9 3/8	SAR 26-160 PSI	SLIP	5"	1/4
	125	165	9 3/8	SAR 21-200 PSI	SLIP	5"	1/4
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					
	0	20	9 3/8	Bentonite Holeplug chips 3/8	17	MANUAL	
	20	165	9 3/8	1/8" GRAVEL	2.5 tons	MANUAL	

FOR OSE INTERNAL USE

FILE NO. L14587	WR-20 WELL RECORD & LOG (Version 06/30/17)
LOCATION 16S-36E-11 2.1.4	TRN NO. 635487
POD NO. 1	PAGE 1 OF 2
WELL TAG ID NO. 221A8	

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES: (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL	0	1	1	topsoil	Y <input checked="" type="checkbox"/>	
	1	30	29	caliche Rock	Y <input checked="" type="checkbox"/>	
	30	35	5	SAND	Y <input checked="" type="checkbox"/>	
	35	45	10	Limestone	Y <input checked="" type="checkbox"/>	
	45	165	120	Red SAND w/Limestone Stringer S	<input checked="" type="checkbox"/> N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					30 0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	pump @ 30 gpm					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME					1-24-19 DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	L-14587	POD NO.	1
LOCATION		TRN NO.	035487
16S-36E-11	201-4	WELL TAG ID NO.	221A8
		PAGE 2 OF 2	

OSE DTI JAN 15 2021 PM 2:22



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) L-15067 POD1		WELL TAG ID NO. 20D4E		OSE FILE NO(S). L-15067		
	WELL OWNER NAME(S) Keri Arreola				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS PO Box 234				CITY Lovington	STATE NM	
					ZIP 88260		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 55	SECONDS 55.76	<input checked="" type="checkbox"/> N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE 103	18	53.28	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Tract A in SW/4 of Section 12, Township 16S, Range 36E							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1044		NAME OF LICENSED DRILLER Alan G. Eades			NAME OF WELL DRILLING COMPANY Eades Drilling & Pump Service	
	DRILLING STARTED 12-28-2020	DRILLING ENDED 12-29-2020	DEPTH OF COMPLETED WELL (FT) 234	BORE HOLE DEPTH (FT) 234	DEPTH WATER FIRST ENCOUNTERED (FT) ~85		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) ~83		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
	0	20	9.875	PVC	SLIP JOINT	5.135	.214
	20	174	8.75	PVC	SLIP JOINT	5.135	.214
	174	234	8.75	PVC SCREEN	SLIP JOINT	5.135	.214
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					
	0	20	9.875	BENTONITE CHIPS - HYDRATED	7	GRAVITY FED	
	20	234	8.75	GRAVEL	57	GRAVITY FED	

FOR OSE INTERNAL USE

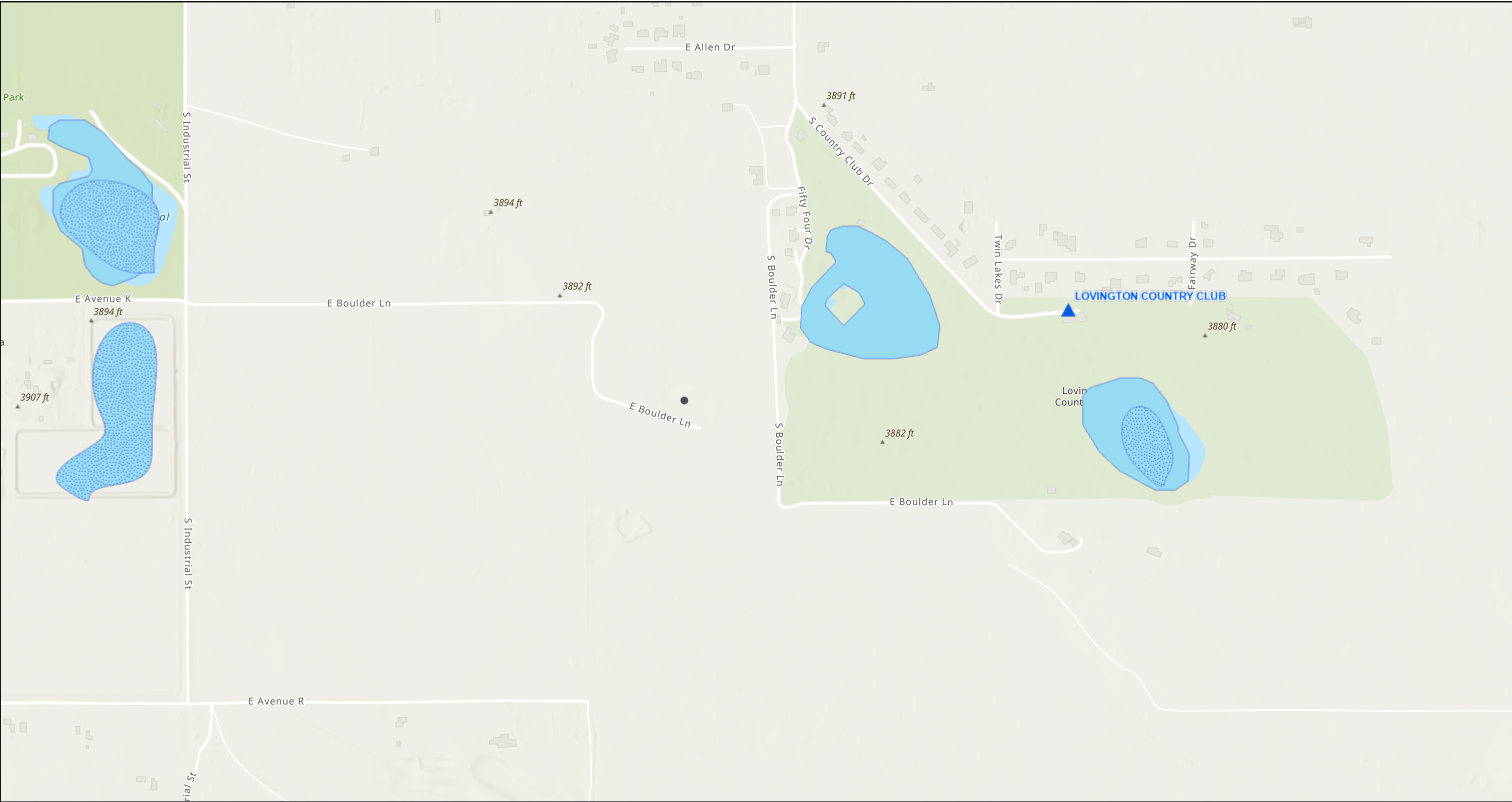
WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. L-15067-POD1	POD NO. 1	TRN NO. 687212
LOCATION Dom 16. 36. 12. 133	WELL TAG ID NO. 20D4E	PAGE 1 OF 2

OSE DTI JAN 15 2021 PM 2:22

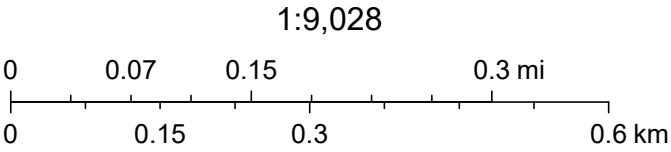
4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	TOP SOIL	Y N	
	1	17	16	CALICHE	Y N	
	17	21	4	SANDSTONE	Y N	
	21	85	64	SAND	Y N	
	85	190	105	SAND	Y N	see note below
	190	234	44	SAND & GRAVEL	Y N	see note below
	234	-	-	RED CLAY	Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER – SPECIFY: see note below					TOTAL ESTIMATED WELL YIELD (gpm): unknown
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION: Eades Drilling & Pump Service did not test pump this well to determine the maximum yield of the well or each water bearing strata. However, the water bearing zones are capable of producing at least 30 gpm based on the performance of the 3 HP pump installed in this well. PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"><div>SIGNATURE OF DRILLER / PRINT SIGNED NAME <u>Alan Eades</u> ALAN EADES</div><div>DATE <u>01-11-2021</u></div></div>					
FOR USE INTERNAL USE						
FILE NO. <u>L-15067-PDD</u>		POD NO. <u>1</u>		TRN NO. <u>682212</u>		PAGE 2 OF 2
LOCATION <u>Tron 16.36.12.133</u>		WELL TAG ID NO. <u>20D45</u>				

Hugens #001



6/10/2024, 9:22:27 PM

- OSW Water Bodys
- OSE Probable Playas
- NMED Drinking Water Systems



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APPENDIX E

CARMONA RESOURCES





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

A handwritten signature in black ink that reads "Jessica Kramer".

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

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

LINKS

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results through
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www.eurofinsus.com/Env

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.

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

Laboratory Job ID: 880-9962-1

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Hudgens #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
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

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

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°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

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

Job ID: 880-9962-1

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-9962-1

Date Collected: 01/05/22 16:08

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
o-Xylene	<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	Qualifier	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	Result	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 (DRO) (GC)

Analyte	Result	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 Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 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
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7400		49.9		mg/Kg			01/12/22 14:58	10

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-9962-2

Date Collected: 01/05/22 16:10

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 6-12"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/22 14:31	01/11/22 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/07/22 14:31	01/11/22 01:04	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-9962-1

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-9962-2

Date Collected: 01/05/22 16:10

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 6-12"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84		70 - 130	01/07/22 14:31	01/11/22 01:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/11/22 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/11/22 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/07/22 14:36	01/08/22 18:12	1
o-Terphenyl	91		70 - 130				01/07/22 14:36	01/08/22 18:12	1

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

Lab Sample ID: 880-9962-3

Date Collected: 01/05/22 16:12

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 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 BTEX 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 Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/11/22 14:19	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-9962-1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9962-3

Date Collected: 01/05/22 16:12

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 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
Oil 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

Method: 300.0 - Anions, Ion Chromatography - Soluble

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

Lab Sample ID: 880-9962-4

Date Collected: 01/05/22 16:14

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 6-12"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/22 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 (DRO) (GC)

Analyte	Result	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 Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				01/07/22 14:36	01/08/22 19:13	1
o-Terphenyl	105		70 - 130				01/07/22 14:36	01/08/22 19:13	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-9962-1

Client Sample ID: Auger Hole 2
Date Collected: 01/05/22 16:14
Date Received: 01/07/22 13:05
Sample Depth: 6-12"

Lab Sample ID: 880-9962-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3510		24.8		mg/Kg			01/12/22 15:28	5

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Surrogate Summary

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

Job ID: 880-9962-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9960-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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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

QC Sample Results

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

Job ID: 880-9962-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16220/5-A

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16220

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 09:17	01/10/22 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/07/22 09:17	01/10/22 10:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/07/22 09:17	01/10/22 10:46	1

Lab Sample ID: MB 880-16279/5-A

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 14:31	01/10/22 21:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/07/22 14:31	01/10/22 21:39	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/07/22 14:31	01/10/22 21:39	1

Lab Sample ID: LCS 880-16279/1-A

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09238		mg/Kg		92	70 - 130
Toluene	0.100	0.08627		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08328		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1716		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08407		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-16279/2-A

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09219		mg/Kg		92	70 - 130	0	35

Eurofins Midland

QC Sample Results

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

Job ID: 880-9962-1

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

Lab Sample ID: LCSD 880-16279/2-A

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits			
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 - 130		3	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-9960-A-1-A MS

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									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	

Surrogate	MS		Limits
	%Recovery	Qualifier	
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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-16281/1-A

Matrix: Solid

Analysis Batch: 16324

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16281

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 13:27	1

Eurofins Midland

QC Sample Results

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

Job ID: 880-9962-1

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

Lab Sample ID: MB 880-16281/1-A

Matrix: Solid

Analysis Batch: 16324

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 13:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 13:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				01/07/22 14:36	01/08/22 13:27	1
o-Terphenyl	98		70 - 130				01/07/22 14:36	01/08/22 13:27	1

Lab Sample ID: LCS 880-16281/2-A

Matrix: Solid

Analysis Batch: 16324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	792.8		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1073		mg/Kg		107	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	103		70 - 130				
o-Terphenyl	106		70 - 130				

Lab Sample ID: LCSD 880-16281/3-A

Matrix: Solid

Analysis Batch: 16324

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	876.3		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1179		mg/Kg		118	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: 880-9942-A-1-C MS

Matrix: Solid

Analysis Batch: 16324

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16281

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	843.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1076		mg/Kg		105	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	77		70 - 130						
o-Terphenyl	76		70 - 130						

Eurofins Midland

QC Sample Results

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

Job ID: 880-9962-1

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

Lab Sample ID: 880-9942-A-1-D MSD

Matrix: Solid

Analysis Batch: 16324

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16281

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	966.2		mg/Kg		95	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1231		mg/Kg		121	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	85		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16437/1-A

Matrix: Solid

Analysis Batch: 16545

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/12/22 10:42	1

Lab Sample ID: LCS 880-16437/2-A

Matrix: Solid

Analysis Batch: 16545

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.9		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-16437/3-A

Matrix: Solid

Analysis Batch: 16545

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	260.2		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-9960-A-4-D MS

Matrix: Solid

Analysis Batch: 16545

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15.0		250	290.0		mg/Kg		110	90 - 110

Lab Sample ID: 880-9960-A-4-E MSD

Matrix: Solid

Analysis Batch: 16545

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15.0		250	286.0		mg/Kg		108	90 - 110	1	20

Eurofins Midland

QC Association Summary

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

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	

Prep 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	Prep Type	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	Total BTEX	
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	Prep Type	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)

Job ID: 880-9962-1

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

Analysis Batch: 16554

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	
LCS 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

Eurofins Midland

Lab Chronicle

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

Job ID: 880-9962-1

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-9962-1

Date Collected: 01/05/22 16:08

Matrix: Solid

Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	16279	01/07/22 14:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16342	01/11/22 00:44	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			10.00 g	10 mL	16281	01/07/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16324	01/08/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16437	01/10/22 13:11	CH	XEN MID
Soluble	Analysis	300.0		10			16545	01/12/22 14:58	CH	XEN MID

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-9962-2

Date Collected: 01/05/22 16:10

Matrix: Solid

Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	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	CH	XEN MID
Soluble	Analysis	300.0		10			16545	01/12/22 15:08	CH	XEN MID

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9962-3

Date Collected: 01/05/22 16:12

Matrix: Solid

Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	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	CH	XEN MID
Soluble	Analysis	300.0		10			16545	01/12/22 15:18	CH	XEN MID

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9962-4

Date Collected: 01/05/22 16:14

Matrix: Solid

Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	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

Lab Chronicle

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

Job ID: 880-9962-1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9962-4

Date Collected: 01/05/22 16:14

Matrix: Solid

Date Received: 01/07/22 13:05

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

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

- 1
- 2
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- 14

Accreditation/Certification Summary

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

Job ID: 880-9962-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

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 References:

- ASTM = ASTM 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, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

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)

Job ID: 880-9962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-9962-1	Auger Hole 1	Solid	01/05/22 16:08	01/07/22 13:05	0-6"
880-9962-2	Auger Hole 1	Solid	01/05/22 16:10	01/07/22 13:05	6-12"
880-9962-3	Auger Hole 2	Solid	01/05/22 16:12	01/07/22 13:05	0-6"
880-9962-4	Auger Hole 2	Solid	01/05/22 16:14	01/07/22 13:05	6-12"

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0380 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)565-3443 Lubbock TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-592-7550)
Hobbs NM (575-392-7550)

Work Order No: 9942

www.xenco.com Page 1 of 1

Project Manager	Brandon Wilson	Bill to: (if different)	
Company Name	Etech Environmental	Company Name	
Address	13000 W CR 100	Address	
City, State ZIP	Odessa, Tx 79765	City, State ZIP	
Phone	432-563-2200	Email	brandon@etechenv.com, blake@etechenv.com

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

Project Name	Huddgens #001 (9681)	Turn Around
Project Number	15313	Routine <input checked="" type="checkbox"/>
P O Number	15313	Rush
Sampler's Name	Blake Estep	Due Date

SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice	Yes	No
Temperature (°C)	53/54	Thermometer ID					
Received intact.	Yes No	ICE					
Cooler Custody Seals	Yes No	N/A		Correction Factor		10	
Sample Custody Seals	Yes No	N/A		Total Containers			

[illegible]

Number of Containers		ANALYSIS REQUEST	Work Order Notes
TPH 8015M			
BETEX 8021B			
Chlorides			
TAT starts the day received by the lab if received by 4:30pm			
Sample Comments			

[illegible]

888-9962 Chain of Custody

TAT starts the day received by the lab if received by 4 30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn	
TCLP / SPLP 6010																															
8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U															
1631 / 245.1 / 7470 / 7471																															
Hd																															

Notice signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. 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 will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>M. E. E.</i>	<i>Steve D</i>	11-22-15 05:2			
2					
3					
4					
5					
6					

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-9962-1

Login Number: 9962
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited 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. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

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. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

BH - 1 (0-1')
H244428-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	816		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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) 110 % 71.5-134 4072529 JH 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 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



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

Analytical Results For:

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

BH - 1 (2')
H244428-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	672		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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)			111 %	71.5-134		4072529	JH	26-Jul-24	8021B	
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Petroleum Hydrocarbons by GC 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	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		4072522	MS	26-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 1 (3')
H244428-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	640		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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)			110 %	71.5-134		4072529	JH	26-Jul-24	8021B	
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Petroleum Hydrocarbons by GC 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	
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Surrogate: 1-Chlorooctadecane			103 %	49.1-148		4072522	MS	26-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 1 (4')
H244428-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	704		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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)			111 %	71.5-134		4072529	JH	26-Jul-24	8021B	
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Petroleum Hydrocarbons by GC 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	
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Surrogate: 1-Chlorooctadecane			133 %	49.1-148		4072522	MS	26-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 1 (5')
H244428-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	864		16.0	mg/kg	4	4081342	CT	13-Aug-24	4500-Cl-B	
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 2 (0-1')
H244428-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	576		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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	
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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			116 %	48.2-134		4072522	MS	26-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			123 %	49.1-148		4072522	MS	26-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 2 (2')
H244428-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1040		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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)			110 %	71.5-134		4072529	JH	26-Jul-24	8021B	
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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	
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Surrogate: 1-Chlorooctadecane			132 %	49.1-148		4072522	MS	26-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 2 (3')
H244428-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	640		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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	
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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	
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Surrogate: 1-Chlorooctadecane			138 %	49.1-148		4072522	MS	26-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 2 (4')
H244428-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	816		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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)			112 %		71.5-134	4072529	JH	26-Jul-24	8021B	
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Petroleum Hydrocarbons by GC 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	
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Surrogate: 1-Chlorooctadecane			146 %		49.1-148	4072522	MS	26-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 2 (5')
H244428-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1360		16.0	mg/kg	4	4081342	CT	13-Aug-24	4500-Cl-B	
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 3 (0-1')
H244428-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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	JH	29-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.1 %	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			125 %	48.2-134		4072522	MS	26-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			131 %	49.1-148		4072522	MS	26-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 3 (2')
H244428-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	4072625	AC	26-Jul-24	4500-Cl-B	
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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	JH	29-Jul-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	71.5-134		4072630	JH	29-Jul-24	8021B	
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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	

<i>Surrogate: 1-Chlorooctane</i>			102 %	48.2-134		4072522	MS	26-Jul-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %	49.1-148		4072522	MS	26-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 3 (3')
H244428-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	4072636	HM	26-Jul-24	4500-Cl-B	
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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	JH	29-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		4072630	JH	29-Jul-24	8021B	
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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	
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Surrogate: 1-Chlorooctadecane			108 %	49.1-148		4072522	MS	26-Jul-24	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

BH - 3 (4')
H244428-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	4072636	HM	26-Jul-24	4500-Cl-B	
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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	JH	29-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.8 %		71.5-134	4072630	JH	29-Jul-24	8021B	
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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			114 %		48.2-134	4072522	MS	26-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			124 %		49.1-148	4072522	MS	26-Jul-24	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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 4072625 - 1:4 DI Water**Blank (4072625-BLK1)**

Prepared & Analyzed: 26-Jul-24

Chloride	ND	16.0	mg/kg
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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
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Batch 4072636 - 1:4 DI Water**Blank (4072636-BLK1)**

Prepared & Analyzed: 26-Jul-24

Chloride	ND	16.0	mg/kg
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LCS (4072636-BS1)

Prepared & Analyzed: 26-Jul-24

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (4072636-BSD1)

Prepared & Analyzed: 26-Jul-24

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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Batch 4081342 - 1:4 DI Water**Blank (4081342-BLK1)**

Prepared & Analyzed: 13-Aug-24

Chloride	ND	16.0	mg/kg
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LCS (4081342-BS1)

Prepared & Analyzed: 13-Aug-24

Chloride	432	16.0	mg/kg	400	108	80-120
----------	-----	------	-------	-----	-----	--------

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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	
----------	-----	------	-------	-----	--	-----	--------	------	----	--

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4072529 - Volatiles**Blank (4072529-BLK1)**

Prepared: 25-Jul-24 Analyzed: 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: 25-Jul-24 Analyzed: 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-BS1)

Prepared: 25-Jul-24 Analyzed: 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							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4072630 - Volatiles**Blank (4072630-BLK1)**

Prepared: 26-Jul-24 Analyzed: 29-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: 26-Jul-24 Analyzed: 29-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-BS1)

Prepared: 26-Jul-24 Analyzed: 29-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			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4072522 - General Prep - Organics**Blank (4072522-BLK1)**

Prepared: 25-Jul-24 Analyzed: 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: 25-Jul-24 Analyzed: 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: 25-Jul-24 Analyzed: 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			

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H244428

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

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

Project Name:	Hudgens #001	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	2407																None: NO	DI Water: H ₂ O
Project Location:	Lea Co, NM	Due Date:	Normal														Cool: Cool	MeOH: Me
Sampler's Name:	MM																HCL: HC	HNO ₃ : HN
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters										HOLD
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140															
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	1.2															
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	7.2															
Total Containers:		Corrected Temperature:																
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
BH-1 (0-1')	7/25/2024		X		G	1	X	X	X	X								
BH-1 (2')	7/25/2024		X		G	1	X	X	X	X								
BH-1 (3')	7/25/2024		X		G	1	X	X	X	X								
BH-1 (4')	7/25/2024		X		G	1	X	X	X	X								
BH-1 (5')	7/25/2024		X		G	1												
BH-2 (0-1')	7/25/2024		X		G	1	X	X	X	X								
BH-2 (2')	7/25/2024		X		G	1	X	X	X	X								
BH-2 (3')	7/25/2024		X		G	1	X	X	X	X								
BH-2 (4')	7/25/2024		X		*G	1	X	X	X	X								
BH-2 (5')	7/25/2024		X		G	1												

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

* Customer requested added analysis. re. 8/12/24

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	7/25/24 1200			

Chain of Custody

Work Order No.:

424428

Page 24 of 24

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

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

[illegible][illegible]

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	7/25/24 1200	2		
3 <i>[Signature]</i>			4		
			6		



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/26/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/25/2024
 Reported: 07/30/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 07/25/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/26/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Work Order No: H244427

Page 1 of 1

Page 7 of 7

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

[illegible]

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

Revised Date 05/01/2020 Rev. 2020.1



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 150 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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*	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

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		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*	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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*	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-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 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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*	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	09/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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*	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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*	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/18/2024
 Reported: 09/19/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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*	<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 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: HA451000

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com
Project Name:	Hudgens #001	Turn Around	
Project Number:	2407	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	
Project Location:	Lea Co. NM	Due Date:	24 HR
Sampler's Name:	CM		
PO #:			
SAMPLE RECEIPT			
Received In tact:	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	#140
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.66
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	5.33
		Corrected Temperature:	4.73

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST										Preservative Codes			
							Parameters	Pres. Code									None: NO	DI Water: H ₂ O	MeOH: Me	
CS-1 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-2 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-3 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-4 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-5 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-6 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-7 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-8 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-9 (4.25)	9/18/2024		X		C	1	X	X	X	X										
CS-10 (4.25)	9/18/2024		X		C	1	X	X	X	X										

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Carl Muehling</u>	<u>Melanie de la Cruz</u>	9/18/24 1250			

Work Order No: 11075 Slugg

Page of

Work Order Comments

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

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other:

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

Revised C.M. 052 2020 Rev. 4.22



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/20/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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



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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/20/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

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



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Analytical Results For:

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

Received: 09/19/2024
 Reported: 09/20/2024
 Project Name: HUDGENS #001
 Project Number: 2407
 Project Location: LEA CO., NM

Sampling Date: 09/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	09/20/2024	ND	400	100	400	3.92		

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	09/20/2024	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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

Chain of Custody

Work Order No.:

424521

Page 6 of 6

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Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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

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

Client: Carmona Resources
Project/Site: Hudgens #001

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Carmona Resources
Project/Site: Hudgens #001

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

Qualifiers

GC VOA

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

GC Semi VOA

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Hudgens #001

Job ID: 880-48804-1

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.

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Client Sample Results

Client: Carmona Resources
Project/Site: Hudgens #001

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

Client Sample ID: SW-3 (4.25')

Lab Sample ID: 880-48804-1

Date Collected: 09/20/24 00:00

Matrix: Solid

Date Received: 09/23/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		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 Calculation

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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/24/24 02:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		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	110		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, Ion Chromatography - Soluble

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 (4.25')

Lab Sample ID: 880-48804-2

Date Collected: 09/20/24 00:00

Matrix: Solid

Date Received: 09/23/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/24 09:41	09/23/24 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/23/24 09:41	09/23/24 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/23/24 09:41	09/23/24 17:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/23/24 09:41	09/23/24 17:02	1
o-Xylene	0.00266		0.00200		mg/Kg		09/23/24 09:41	09/23/24 17:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/23/24 09:41	09/23/24 17:02	1

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Hudgens #001

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

Client Sample ID: SW-4 (4.25')
Date Collected: 09/20/24 00:00
Date Received: 09/23/24 08:38

Lab Sample ID: 880-48804-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/23/24 17:02	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7		mg/Kg			09/24/24 02:41	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/23/24 09:26	09/24/24 02:41	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/23/24 09:26	09/24/24 02:41	1	
Oil 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	
o-Terphenyl	84		70 - 130				09/23/24 09:26	09/24/24 02:41	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	5.03		5.01		mg/Kg			09/23/24 13:05	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Hudgens #001

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

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-48804-1	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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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			

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)

Lab Sample ID: MB 880-91429/5-A

Matrix: Solid

Analysis Batch: 91435

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91429

Analyte	MB Result	MB 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
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
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/23/24 08:30	09/23/24 11:50	1

Surrogate	MB %Recovery	MB 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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 91429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

Surrogate	LCS %Recovery	LCS 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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 91429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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 Batch: 91435

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 91429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

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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
Matrix: Solid
Analysis Batch: 91435

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	125		70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						

Lab Sample ID: 890-7143-A-11-E MSD
Matrix: Solid
Analysis Batch: 91435

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08303		mg/Kg		83	70 - 130	1	35
Toluene	0.00238		0.100	0.07825		mg/Kg		76	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.100	0.07873		mg/Kg		78	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1831		mg/Kg		91	70 - 130	6	35
o-Xylene	<0.00201	U	0.100	0.08986		mg/Kg		89	70 - 130	17	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-91441/1-A
Matrix: Solid
Analysis Batch: 91462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/23/24 09:26	09/23/24 21:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/23/24 09:26	09/23/24 21:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/24 09:26	09/23/24 21:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	153	S1+	70 - 130						

Lab Sample ID: LCS 880-91441/2-A
Matrix: Solid
Analysis Batch: 91462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1034		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	847.6		mg/Kg		85	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Hudgens #001

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

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

Lab Sample ID: LCS 880-91441/2-A
Matrix: Solid
Analysis Batch: 91462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91441

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-91441/3-A
Matrix: Solid
Analysis Batch: 91462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1063		mg/Kg		106	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	866.8		mg/Kg		87	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-7144-A-7-F MS
Matrix: Solid
Analysis Batch: 91462

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	754.3		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	760.6		mg/Kg		76	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-7144-A-7-G MSD
Matrix: Solid
Analysis Batch: 91462

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	765.5		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	745.1		mg/Kg		75	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	88		70 - 130

Eurofins Midland

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

Matrix: Solid

Analysis Batch: 91460

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/23/24 12:16	1

Lab Sample ID: LCS 880-91449/2-A

Matrix: Solid

Analysis Batch: 91460

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-91449/3-A

Matrix: Solid

Analysis Batch: 91460

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	236.4		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-48786-A-1-C MS

Matrix: Solid

Analysis Batch: 91460

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	920	F1	249	1127	F1	mg/Kg		83	90 - 110

Lab Sample ID: 880-48786-A-1-D MSD

Matrix: Solid

Analysis Batch: 91460

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	920	F1	249	1125	F1	mg/Kg		83	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Hudgens #001

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 Batch
880-48804-1	SW-3 (4.25')	Total/NA	Solid	5035	
880-48804-2	SW-4 (4.25')	Total/NA	Solid	5035	
MB 880-91429/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-91429/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-91429/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7143-A-11-D MS	Matrix Spike	Total/NA	Solid	5035	
890-7143-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 91435

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 Type	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 Type	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
SDG: Lea Co, NM

HPLC/IC

Leach Batch: 91449

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

Analysis Batch: 91460

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

Lab Chronicle

Client: Carmona Resources
Project/Site: Hudgens #001

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

Lab Sample ID: 880-48804-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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	CH	EET MID

Client Sample ID: SW-4 (4.25')
Date Collected: 09/20/24 00:00
Date Received: 09/23/24 08:38

Lab Sample ID: 880-48804-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 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 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			91621	09/23/24 17:02	AJ	EET MID
Total/NA	Analysis	8015 NM		1			91619	09/24/24 02:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 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 02:41	TKC	EET MID
Soluble	Leach	DI Leach			4.99 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 13:05	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Hudgens #001

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

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: 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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: 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

- 1
- 2
- 3
- 4
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody



880-48804 Chain of Custody

Page 1 of 1

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

Project Name: Hudgens #001		Turn Around		Pres. Code	
Project Number: 2407		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location: Lea Co, NM		Due Date: 24 HR			
Sampler's Name: CM					
PO #:					

Project Name: Hudgens #001		Turn Around		Pres. Code	
Project Number: 2407		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location: Lea Co, NM		Due Date: 24 HR			
Sampler's Name: CM					
PO #:					

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	ANALYSIS REQUEST	Preservative Codes				
SW-3 (4.25')	9/20/2024		X		C	1	Parameters None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	X	X	HOLD	None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC				
SW-4 (4.25')	9/20/2024		X		C	1									

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

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-48804-1

SDG Number: Lea Co, NM

Login Number: 48804

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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

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

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited 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. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BACKFILL SAMPLE - 1	H245665-01	Soil	18-Sep-24 00:00	18-Sep-24 12:50

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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in cursive script, appearing to read "Coley D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

BACKFILL SAMPLE - 1
H245665-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	4091845	HM	18-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4091826	JH	18-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4091826	JH	18-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4091826	JH	18-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4091826	JH	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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 4091826 - Volatiles**Blank (4091826-BLK1)**

Prepared & Analyzed: 18-Sep-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)	0.0524		mg/kg	0.0500		105	71.5-134			

LCS (4091826-BS1)

Prepared & Analyzed: 18-Sep-24

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

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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
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

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 4091830 - General Prep - Organics**Blank (4091830-BLK1)**

Prepared & Analyzed: 18-Sep-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	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 & Analyzed: 18-Sep-24

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

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. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Work Order No.:

42451005

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	ThielkeA@Carmonaresources.com
Project Name:	Hurdane #004		

Work Order Comments		Page <u>1</u> of <u>1</u>
Program: UST/PST <input type="checkbox"/> RRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>		
State of Project:		
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>		
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____		

[illegible]

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

* Customer requested ID change. go. 9/24/24

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Celia Muey</i>	<i>[Signature]</i>	9-18-24 1250	2		
3			4		
5			6		

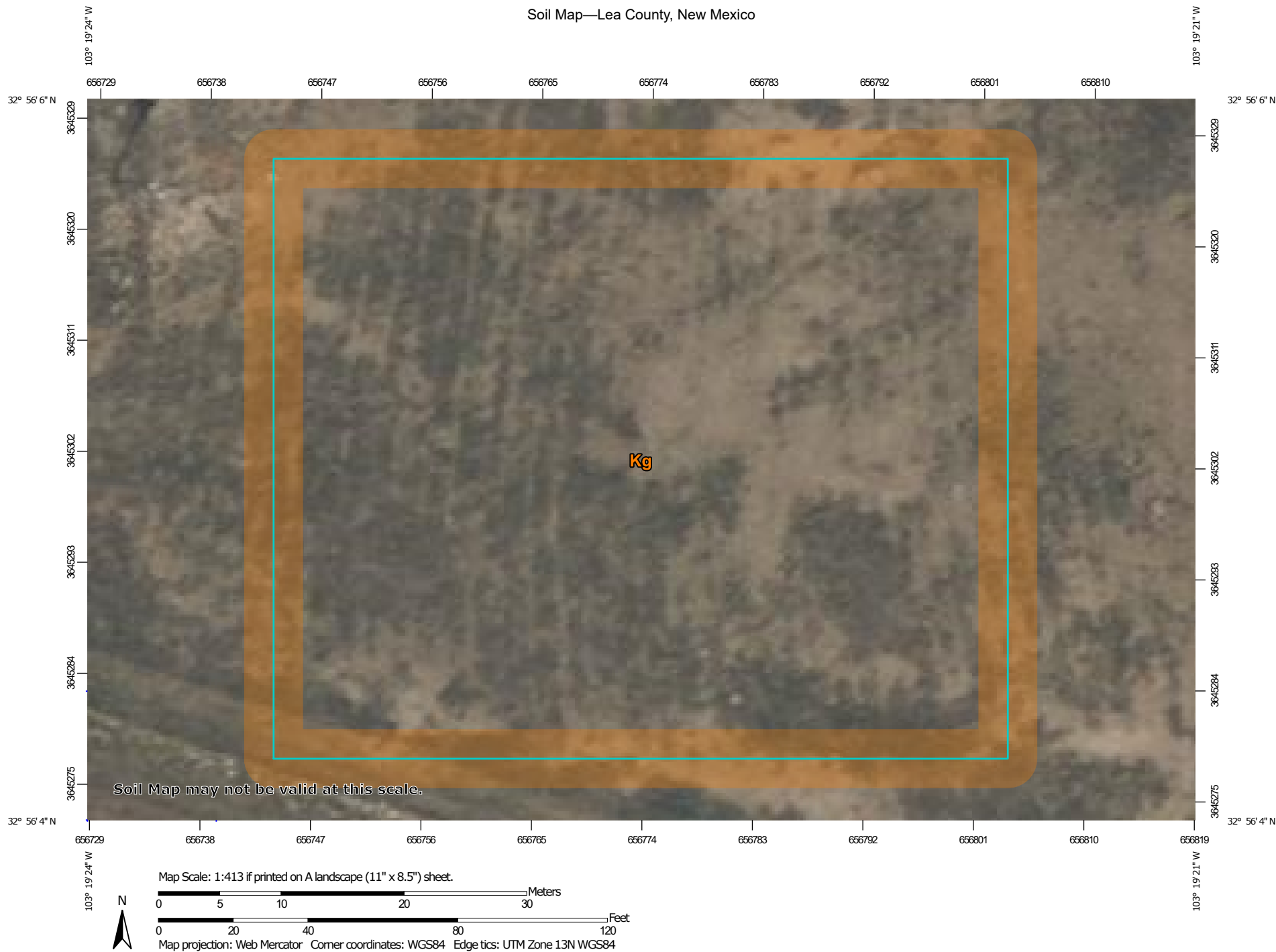
Revised Date: 05/12/2016 Rev: 0003

APPENDIX F

CARMONA RESOURCES



Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

10/11/2024
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



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%

Map Unit Description: Kimbrough gravelly loam, 0 to 3 percent slopes---Lea County, New Mexico

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

Map Unit Description: Kimbrough gravelly loam, 0 to 3 percent slopes---Lea County, New Mexico

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 no 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 (<i>Setaria magrostachya</i>)	1.0
Green Spangletop (<i>Leptochloa dubia</i>)	2.0
Side oats Grama (<i>Bouteloua curtipendula</i>)	5.0

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

From: [Ashton Thielke](#)
To: [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
Environmental Manager
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659
ThielkeA@carmonaresources.com
[Environmental Consulting Firm - Carmona Resources](#)



CARMONA RESOURCES



Historic well investigation

Hudgens #001
Chevron USA
NPAC0801736858

Legend

-  Hudgens #001
-  NMSEO Water Wells

75' - Drilled 1958 - L-04005

Hudgens #001

67' - Drilled 1957 - L-678

PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 1

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View North, area of the historic water well under permit No. L-04005.



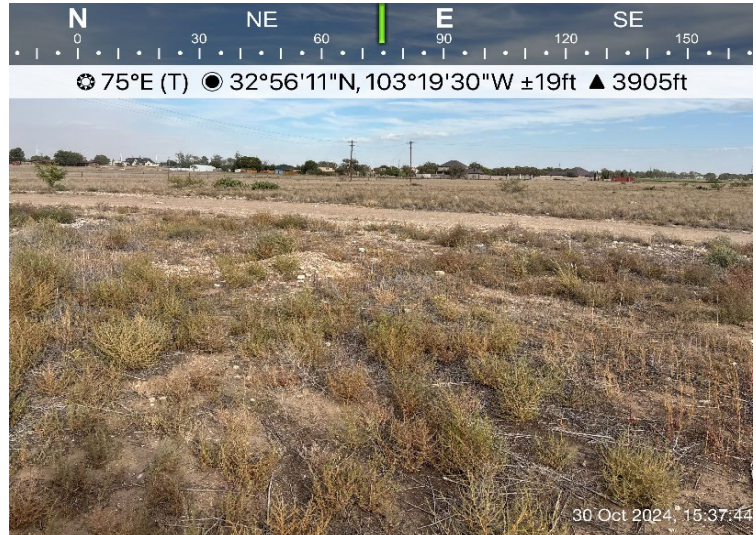
Photograph No. 2

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View East, area of the historic water well under permit No. L-04005.



Photograph No. 3

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View Southeast, area of the historic water well under permit No. L-04005.



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

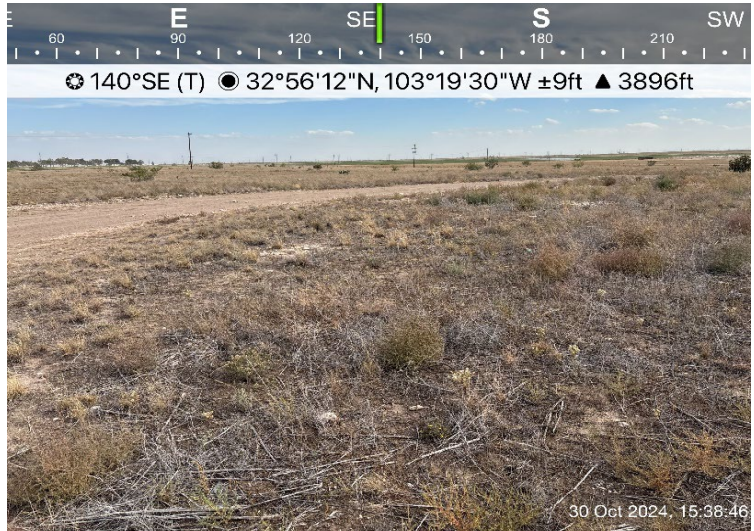
Photograph No. 4

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View Southeast, area of the historic water well under permit No. L-04005.



Photograph No. 5

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View South, area of the historic water well under permit No. L-04005.



Photograph No. 6

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View Southwest, area of the historic water well under permit No. L-678.



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 7

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View Southwest, area of the historic water well under permit No. L-678.



Photograph No. 8

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View Northwest, area of the historic water well under permit No. L-678.



Photograph No. 9

Facility: Hudgens #001

County: Lea County, New Mexico

Description:

View North, area of the historic water well under permit No. L-678.



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

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

QUESTIONS

Action 394428

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	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	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: 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.

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, Page 2

Action 394428

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	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.
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	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 10/22/2024
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QUESTIONS, Page 3

Action 394428

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number: 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 and 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	No

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	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

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

On what estimated date will the remediation commence	09/16/2024
On what date will (or did) the final sampling or liner inspection occur	09/16/2024
On what date will (or was) the remediation complete(d)	09/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	2360
What is the estimated volume (in cubic yards) that will be reclaimed	360
What is the estimated surface area (in square feet) that will be remediated	2360
What is the estimated volume (in cubic yards) that will be remediated	360

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

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

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QUESTIONS, Page 4

Action 394428

QUESTIONS (continued)

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

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 10/22/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 394428

QUESTIONS (continued)

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

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 394428

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number: 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 remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	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."

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 10/22/2024
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QUESTIONS, Page 7

Action 394428

QUESTIONS (continued)

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

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	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
<i>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.</i>	
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.
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 10/22/2024

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QUESTIONS, Page 8

Action 394428

QUESTIONS (continued)

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

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>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.</i>	

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CONDITIONS

Action 394428

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	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 reseeded 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