



**SITE INFORMATION**

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**Closure Report**  
**Crow Flats 16 State Com #002**  
**Incident ID: NMLB1030934407**  
**Eddy County, New Mexico**  
**Unit M Sec 16 T16S R28E**  
**32.9171333°, -104.1882935°**

**Point of Release:**  
**Leak developed in an unattended circulating pump**  
**Release Date: 10/12/10**  
**Volume Released: 17 Barrels of Crude Oil**  
**Volume Recovered: 0 Barrels of Crude Oil**

**CARMONA RESOURCES**



**Prepared for:**  
**Cimarex Energy Co. of Colorado**  
**6001 Deauville Blvd.**  
**Suite 300N**  
**Midland, Texas 79706**

**Prepared by:**  
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**310 West Wall Street**  
**Suite 500**  
**Midland, Texas 79701**

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January 3, 2024

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

**Re: Closure Report**  
**Crow Flats 16 State Com #002**  
**Incident ID: NMLB1030934407**  
**Cimarex Energy Co. of Colorado**  
**Site Location: Unit M, S16, T16S, R28E**  
**(Lat 32.9171333°, Long -104.1882935°)**  
**Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Crow Flats 16 State Com #002. The site is located at 32.9171333°, -104.1882935° within Unit M, S16, T16S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

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

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on October 12, 2010, caused by an unattended circulating pump. It resulted in approximately seventeen (17) barrels of crude oil, and zero (0) barrels of crude oil were recovered. The impacted area is located on the pad. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

### **2.0 Site Characterization and Groundwater**

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 3.31 miles Southwest of the site in S36, T16S, R27E and was drilled in 2016. The well has a reported depth to groundwater of 55' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 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: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

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

On March 28, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, six (6) soil samples (S-1 through S-6) and four (4) horizontal sample points (H-1 through H-4) were advanced to depths ranging from the surface to 2.0'



below ground surface (bgs) inside the area of concern. See Figure 3A for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

### **5.0 Initial Remediation Activities**

Between April 10, 2023, and April 12, 2023, 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 email on April 5, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of S-1 and H-4 were excavated to a depth of 1.5 - 2.0' bgs. A total of twelve (12) confirmation floor samples (CS-1 through CS-12) and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 4500. 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 4A/B.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 180 cubic yards of material were excavated and transported offsite for proper disposal.

### **6.0 NMOCD Historical Work Plan Findings**

On July 25, 2023, NMOCD reviewed the remediation activities stated above, as well as internal files and it was discovered during that review that a historical work plan had been submitted on November 5, 2010. The closure reported submitted on July 25, 2023 was then denied due to impact documented in the 2010 work plan that was not assessed or remediated during the recent March and April, 2023 field activities. An extensive file search was conducted to look for any evidence of historical remediation documentation. No documentation was found of historical remediation work being conducted besides historical aerial photographs showing ground disturbance in the pasture area, which correlated to the area showing impact in the 2010 work plan.

### **7.0 Secondary Site Assessment Activities**

On August 23, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical extent, six (6) additional soil samples (S-7 through S-12) were advanced to depths ranging from the surface to 2.0' below ground surface (bgs) inside the area of concern. See Figure 3B for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

The areas of S-7 through S-9 exceeded reclamation and regulatory requirements for TPH. All other sample locations were below reclamation and regulatory requirements for TPH, BTEX, and chloride.



On November 30, 2023, Carmona Resources, LLC performed site assessment activities to investigate for any additional soil impacts in preparation for a New Mexico State Land Office reclamation work plan. To assess the vertical extent, five (5) test trenches (T-1 through T-5) were advanced to depths ranging from the surface to 4.0' below ground surface (bgs) inside the area of concern. See Figure 3C for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

The areas of T-1 through T-5 were all below the reclamation and regulatory requirements for TPH, BTEX, and chloride.

### **8.0 Secondary Remediation Activities**

Between December 1, 2023, and December 6, 2023, 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 email on November 29, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-7 was excavated to a depth of 2.5' bgs. The area of S-8 was excavated to a depth of 4.0' bgs. The area of S-9 was excavated to a depth of 2.0'-2.5' bgs. A total of nineteen (19) confirmation floor samples (CS-13 through CS-32) and thirteen (13) sidewall samples (SW-5 through SW-17) 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. 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 5A/B.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 390 cubic yards of material were excavated and transported offsite for proper disposal.

### **6.0 Conclusions**

Based on the assessment results and the analytical data, no further actions are required at the site. A total of 570 cubic yards of material were excavated during both remediation events. The final C-141 is attached, and Cimarex formally requests the closure of the spill. A reclamation closure report will be submitted upon completion of reclamation and reseeding activities. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

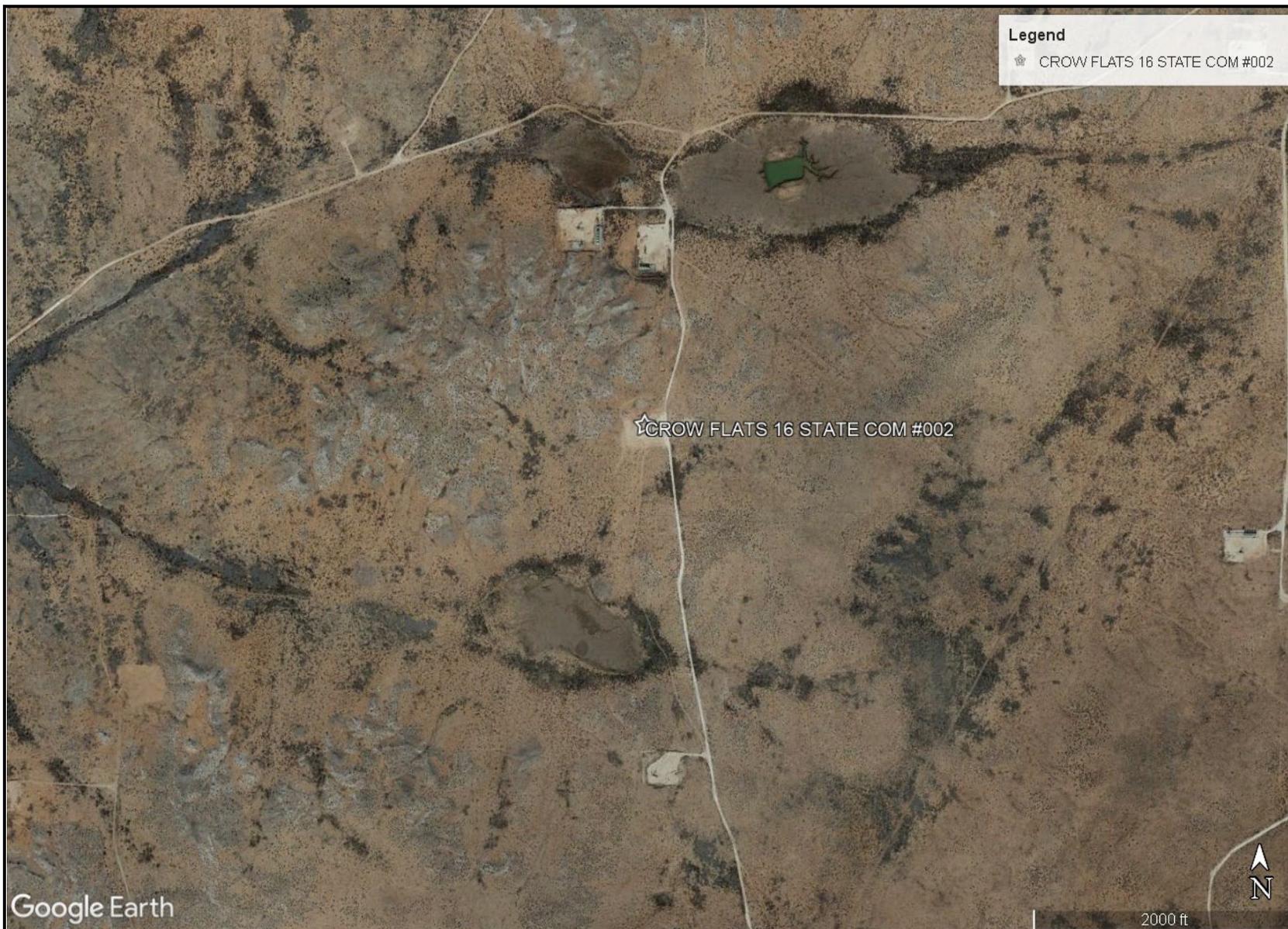
Ashton Thielke  
Sr. Project Manager

Conner Moehring  
Sr. Project Manager

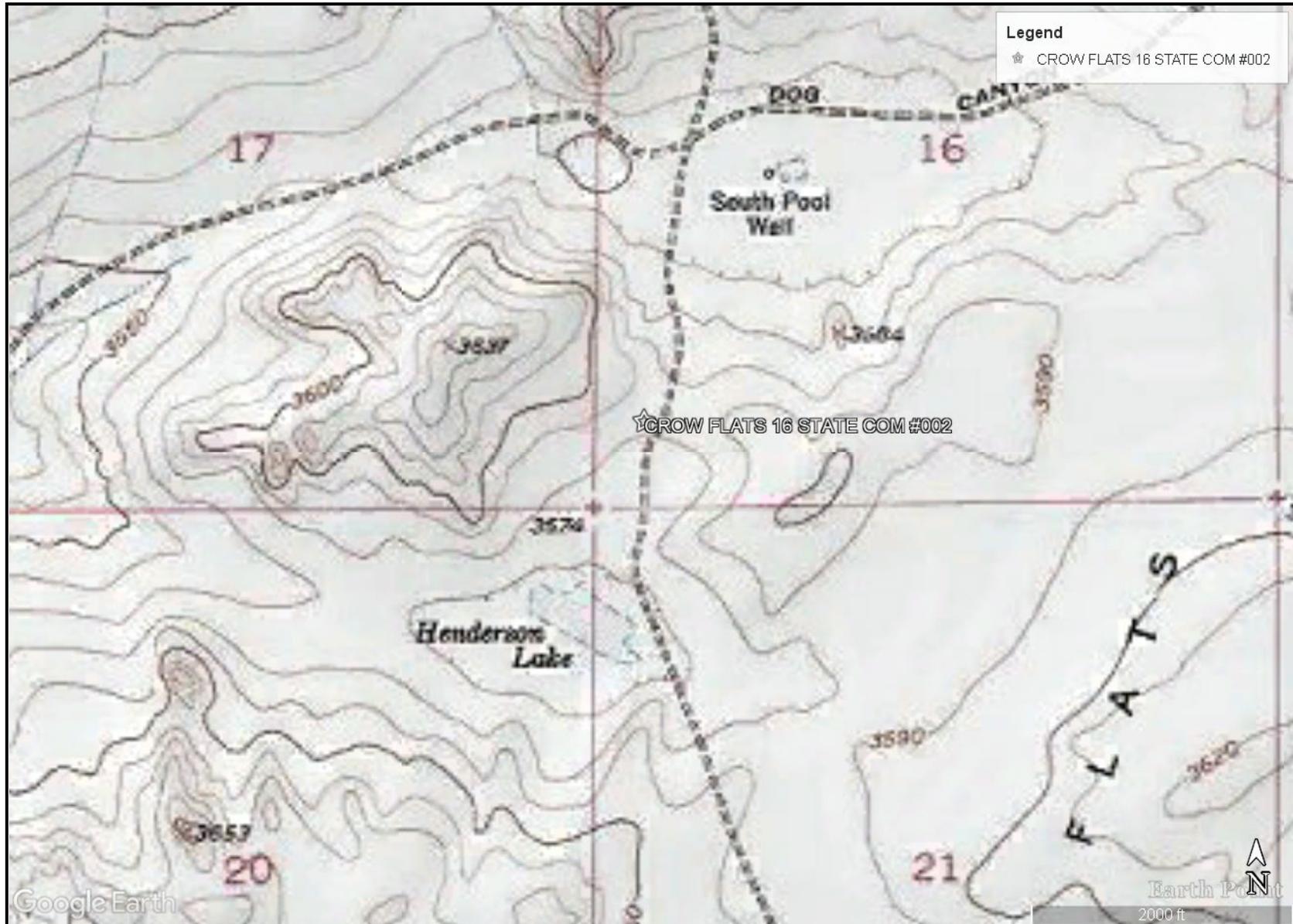
# FIGURES

CARMONA RESOURCES





<p>OVERVIEW MAP CIMAREX ENERGY CO. OF COLORADO CROW FLATS 16 STATE COM #002 EDDY COUNTY, NEW MEXICO 32.9171333°, -104.1882935°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 1</p>
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TOPOGRAPHIC MAP  
CIMAREX ENERGY CO. OF COLORADO  
CROW FLATS 16 STATE COM #002  
EDDY COUNTY, NEW MEXICO  
32.9171333°, -104.1882935°



FIGURE 2



<p>SAMPLE LOCATION MAP CIMAREX ENERGY CO. OF COLORADO CROW FLATS 16 STATE COM #002 EDDY COUNTY, NEW MEXICO 32.9171333°, -104.1882935°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 3A</p>
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ADDITIONAL SAMPLE LOCATION MAP  
CIMAREX ENERGY CO. OF COLORADO  
CROW FLATS 16 STATE COM #002  
EDDY COUNTY, NEW MEXICO  
32.9171333°, -104.1882935°

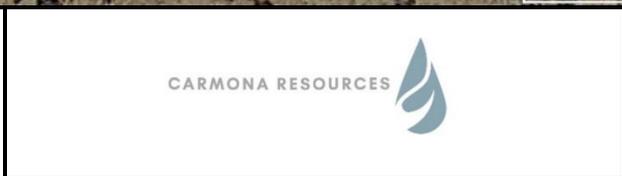


FIGURE 3B



SAMPLE LOCATION MAP  
CIMAREX ENERGY CO. OF COLORADO  
CROW FLATS 16 STATE COM #002  
EDDY COUNTY, NEW MEXICO  
32.9171333°, -104.1882935°



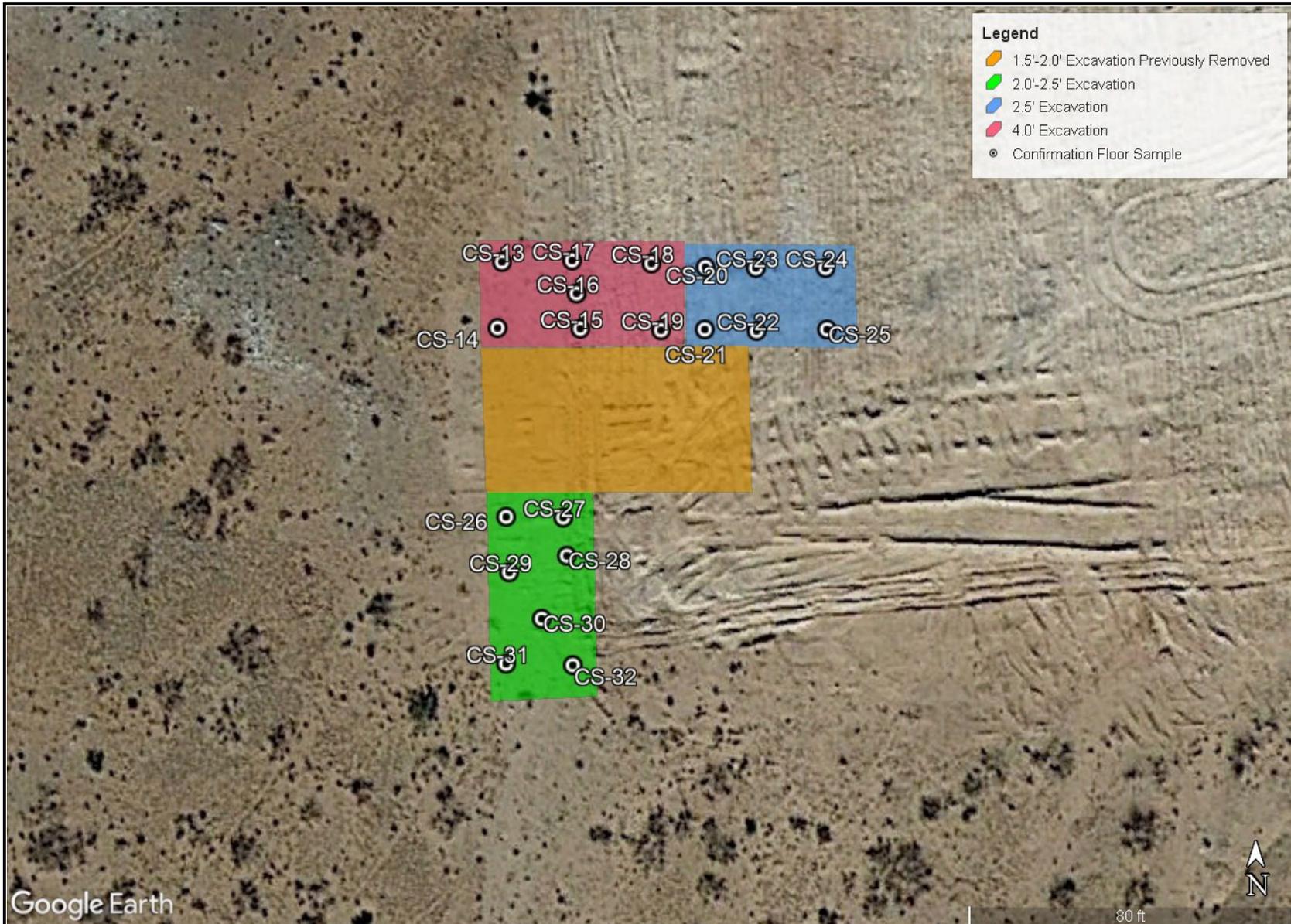
FIGURE 3C



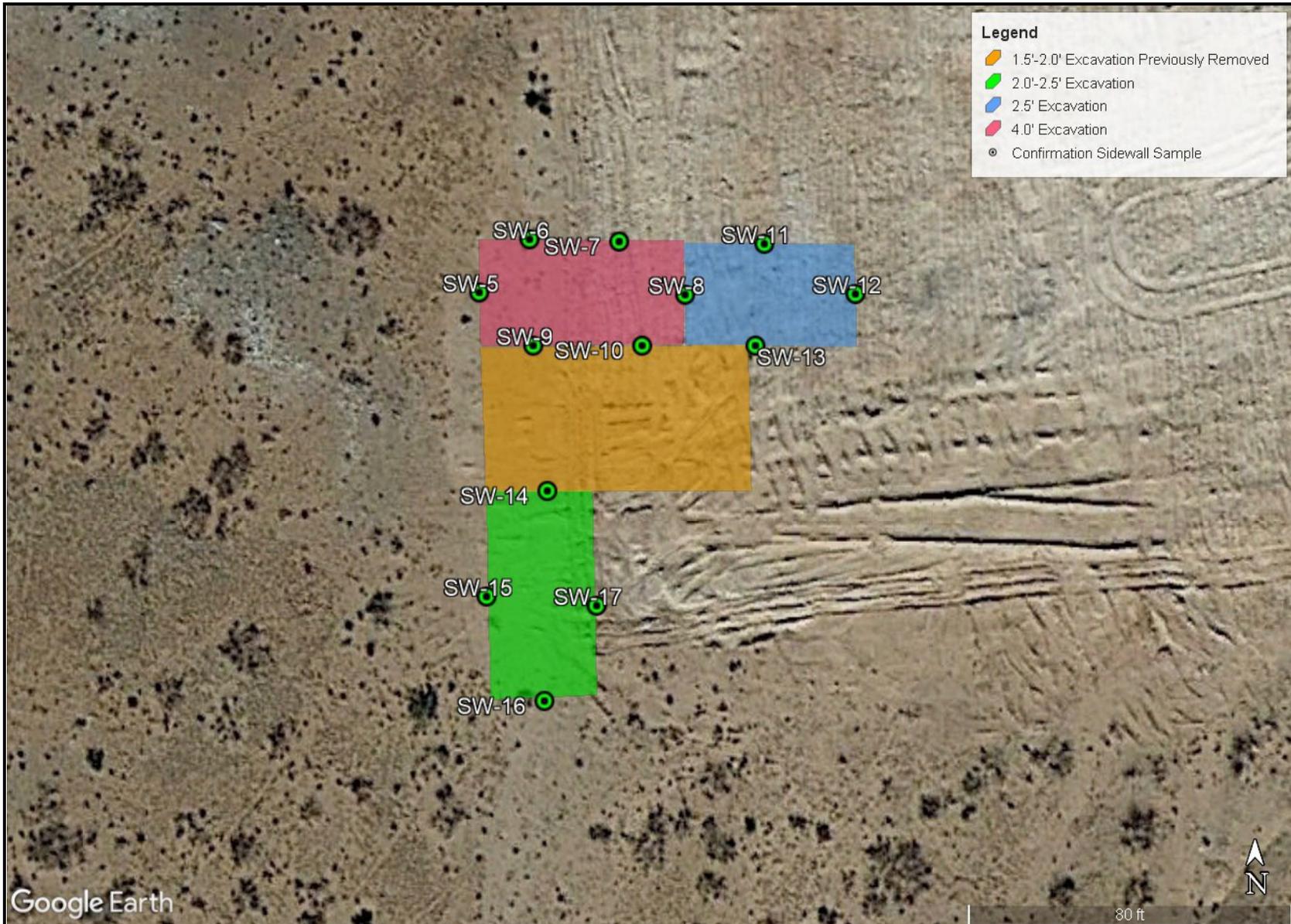
<p>INITIAL EXCAVATION DEPTH MAP          CIMAREX ENERGY CO. OF COLORADO          CROW FLATS 16 STATE COM #002          EDDY COUNTY, NEW MEXICO          32.9171333°, -104.1882935°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 4A</p>
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<p>INITIAL EXCAVATION DEPTH MAP CIMAREX ENERGY CO. OF COLORADO CROW FLATS 16 STATE COM #002 EDDY COUNTY, NEW MEXICO 32.9171333°, -104.1882935°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 4B</p>
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<p>SECONDARY EXCAVATION DEPTH MAP CIMAREX ENERGY CO. OF COLORADO CROW FLATS 16 STATE COM #002 EDDY COUNTY, NEW MEXICO 32.9171333°, -104.1882935°</p>	<p>CARMONA RESOURCES</p> 	<p>FIGURE 5A</p>
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<p>SECONDARY EXCAVATION DEPTH MAP CIMAREX ENERGY CO. OF COLORADO CROW FLATS 16 STATE COM #002 EDDY COUNTY, NEW MEXICO 32.9171333°, -104.1882935°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 5B</p>
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# APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Cimarex**  
**Crow Flats 16 State Com #002**  
**Eddy 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						
S-1	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<b>308</b>	<b>146</b>	<b>464</b>	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5'-1.0'	<10.0	<b>997</b>	<b>381</b>	<b>1,378</b>	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'-1.5'	<10.0	<b>403</b>	<b>175</b>	<b>578</b>	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.5'-2.0'	<10.0	<b>12.9</b>	<10.0	<b>12.9</b>	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
S-2	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
S-3	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	"	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
S-4	3/28/2023	0-0.25'	<10.0	18.0	<10.0	18.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
S-5	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
S-6	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
S-7	8/23/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	114
	"	0.25'-0.5'	<10.0	<b>1,930</b>	<b>779</b>	<b>2,709</b>	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	"	0.5'-1.0'	<10.0	<b>2,010</b>	<b>678</b>	<b>2,688</b>	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	1.0'-1.5'	<10.0	<b>345</b>	<b>208</b>	<b>553</b>	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
S-8	8/23/2023	0-0.25'	<10.0	36.4	31.6	68.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
	"	0.25'-0.5'	<10.0	<b>2,090</b>	<b>958</b>	<b>3,048</b>	<0.050	<0.050	<0.050	<0.150	<0.300	160
	"	0.5'-1.0'	40.1	<b>5,830</b>	<b>1,420</b>	<b>7,290</b>	<0.050	<0.050	<0.050	<0.150	<0.300	160
	"	1.0'-1.5'	42.9	<b>6,850</b>	<b>1,580</b>	<b>8,473</b>	<0.050	<0.050	<0.050	<0.150	<0.300	160
	"	1.5'-2.0'	38.2	<b>7,240</b>	<b>1,590</b>	<b>8,868</b>	<0.050	<0.050	<0.050	<0.150	<0.300	160
S-9	8/23/2023	0-0.25'	<10.0	<b>330</b>	<b>146</b>	<b>476</b>	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	0.25'-0.5'	<10.0	<b>3,960</b>	<b>1,410</b>	<b>5,370</b>	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5'-1.0'	<10.0	<b>519</b>	<b>192</b>	<b>711</b>	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'-1.5'	<10.0	98.1	13.4	<b>112</b>	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
S-10	8/23/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
S-11	8/23/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
S-12	8/23/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
<b>Regulatory Criteria<sup>A</sup></b>						<b>100 mg/kg</b>	<b>10 mg/kg</b>			<b>50 mg/kg</b>	<b>600 mg/kg</b>	

Exceeds  
 Previously Removed  
 (-) Not Analyzed

<sup>A</sup> - Table 1 - 19.15.29 NMAC  
 mg/kg - milligram per kilogram  
 TPH - Total Petroleum Hydrocarbons  
 ft - feet  
 (S) Soil Sample

**Table 1**  
**Cimarex**  
**Crow Flats 16 State Com #002**  
**Eddy 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						
H-1	3/28/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-2	3/28/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-3	3/28/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
H-4	3/28/2023	0-0.5'	<10.0	213	67.9	281	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
<i>Regulatory Criteria<sup>A</sup></i>							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

Previously Removed

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(H) Horizontal Sample

**Table 1**  
**Cimarex**  
**Crow Flats 16 State Com #002**  
**Eddy 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						
T-1	11/30/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	592
	"	3.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
T-2	11/30/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
	"	3.0'	<10.0	53.4	13.2	66.6	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	4.0'	<10.0	41.2	<10.0	41.2	<0.050	<0.050	<0.050	<0.150	<0.300	160
T-3	11/30/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	3.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
T-4	11/30/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	3.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
T-5	11/30/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	"	2.0'	<10.0	26.5	<10.0	26.5	<0.050	<0.050	<0.050	<0.150	<0.300	144
	"	3.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
<b>Regulatory Criteria<sup>A</sup></b>						<b>100 mg/kg</b>	<b>10 mg/kg</b>				<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) Not Analyzed

<sup>A</sup> - Table 1 - 19.15.29 NMAC  
mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons  
ft - feet

(T) Test Trench

**Table 2**  
**Cimarex Energy Co. of Colorado**  
**Crow Flats 16 State Com #002**  
**Eddy 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						
CS-1	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-2	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-3	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-4	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-5	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-6	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
CS-7	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	720
	4/12/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
CS-8	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
CS-9	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-10	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-11	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	592
CS-12	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-13	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
CS-14	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
CS-15	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-16	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-17	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-18	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-19	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-20	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-21	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-22	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-23	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-24	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-25	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-26	12/4/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-27	12/4/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-28	12/4/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-29	12/4/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
CS-30	12/4/2023	2.0'	<10.0	10.9	<10.0	10.9	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-31	12/4/2023	2.0'	<10.0	79.9	25.6	106	<0.050	<0.050	<0.050	<0.150	<0.300	112
	12/6/2023	2.0'-2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-32	12/4/2023	2.0'	<10.0	34.9	<10.0	34.9	<0.050	<0.050	<0.050	<0.150	<0.300	128
Regulatory Criteria <sup>A</sup>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

Removed  
 (-) Not Analyzed  
<sup>A</sup> - Table 1 - 19.15.29 NMAC  
 mg/kg - milligram per kilogram  
 TPH - Total Petroleum Hydrocarbons  
 ft - feet  
 (CS) Confirmation Sample

**Table 2**  
**Cimarex Energy Co. of Colorado**  
**Crow Flats 16 State Com #002**  
**Eddy 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	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-2	4/10/2023	1.5'-2.0'	<10.0	17.4	<10.0	17.4	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-4	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-6	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-7	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-8	12/4/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-9	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-10	12/4/2023	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-11	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-12	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-13	12/4/2023	2.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-14	12/4/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-15	12/4/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-16	12/4/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-17	12/4/2023	2.0'	<10.0	152	101	253	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	12/6/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria <sup>A</sup>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

Removed  
 (-) Not Analyzed  
<sup>A</sup> – Table 1 - 19.15.29 NMAC  
 mg/kg - milligram per kilogram  
 TPH - Total Petroleum Hydrocarbons  
 ft - feet  
 (SW) Sidewall Sample

## APPENDIX B

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

## Cimarex Energy Co. of Colorado

### Photograph No. 1

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**  
View Northeast, area of CS-1 through CS-12.



### Photograph No. 2

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**  
View East, area of CS-1 through CS-12.



### Photograph No. 3

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**  
View West, area of CS-1 through CS-12.



# PHOTOGRAPHIC LOG

## Cimarex Energy Co. of Colorado

### Photograph No. 4

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**

View Southwest, area of CS-13 through CS-19 and stockpiled clean backfill material.



### Photograph No. 5

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**

View Northwest, area of CS-20 through CS-25 and stockpiled clean backfill material.



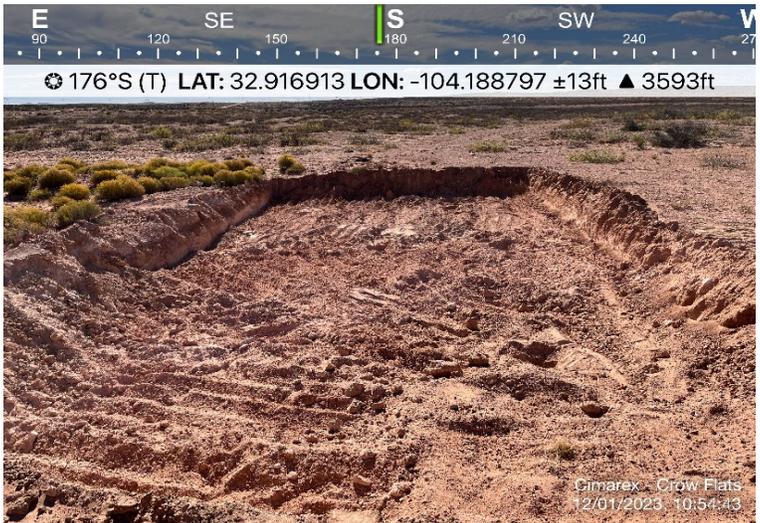
### Photograph No. 6

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**

View South, area of CS-26 through CS-32.



# APPENDIX C

CARMONA RESOURCES



**RECEIVED**  
NOV 04 2010  
**NMOCD ARTESIA**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised October 10, 2003  
Submit 2 copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

30-015-35556

**Release Notification and Corrective Action**

NMLB1030934407

**OPERATOR**       Initial Report       Final Report

Name of Company-Cimarex Energy <i>162683</i>	Contact- Randy Hogan
Address-600 N Marienfeld Ste 600, Midland Tx 79701	Telephone No.-432-296-0618
Facility Name- Crow Flats 16 State 2	Facility Type- Tank battery

Surface Owner	Mineral Owner	Lease No.
---------------	---------------	-----------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County - Eddy
M	-16	16S	28E	660	South	330	West	

Latitude-N32°55'01.7      Longitude-W104°11'17.9

**NATURE OF RELEASE**

Type of Release- oil from circulating pump	Volume of Release-17 bbls	Volume Recovered-
Source of Release-Circulating pump	Date and Hour of Occurrence-10-12-10 6 PM MT	Date and Hour of Discovery 10-12-10 7 PM MT
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Problem was the circulating pump was left unattended and a leak had developed. Pump wasn't inside the berm around the tank battery. Called for a truck to pick up fluids and no trucks were available. Will work w/ Safety Solutions to inspect the spill site then submit a recommendation for delineation and recovery.

Describe Area Affected and Cleanup Action Taken.\*  
Oil had leaked out of the circulating pump and onto the location pad. All the oil is supposedly contained on the pad, none off the pad site. Safety Solutions will respond to this and we will be coordinating the action to take on cleaning up this leakage. A written report and a recommendation will be given to the correct government agency for approval.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Randy Hogan</i> Printed Name: Randy Hogan Title: Production Superintendent E-mail Address: rhogan@cimarex.com Date: 10-13-10      Phone: 432-296-0618	<p><b>OIL CONSERVATION DIVISION</b></p> Signed By: <i>Mike Semura</i> Approved by District Supervisor <p style="font-size: 1.2em; font-weight: bold;">NOV 05 2010</p> Approval Date:      Expiration Date: Conditions of Approval:      Attached <input type="checkbox"/>
---	--

**REMEDATION per OCD Rules and Guidelines. SUBMIT REMEDIATION PROPOSAL BY: 12/5/2010**

2RP-461

\*\*\*\*\* LIQUID SPILLS - VOLUME CALCULATIONS \*\*\*\*\*

Location of spill: nMLB1030934407 - Crow Flats 16 State Com #002

Date of Spill: 10/12/2010

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here:

**Input Data:**

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0000 BBL WATER: 0.0000 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations					Standing Liquid Calculations				
Total Surface Area	width	length	wet soil depth	oil (%)	Standing Liquid Area	width	length	liquid depth	oil (%)
Rectangle Area #1	340 ft X	14 ft X	2 in	100%	Rectangle Area #1	0 ft X	0 ft X	0 in	0%
Rectangle Area #2	0 ft X	0 ft X	0 in	0%	Rectangle Area #2	0 ft X	0 ft X	0 in	0%
Rectangle Area #3	0 ft X	0 ft X	0 in	0%	Rectangle Area #3	0 ft X	0 ft X	0 in	0%
Rectangle Area #4	0 ft X	0 ft X	0 in	0%	Rectangle Area #4	0 ft X	0 ft X	0 in	0%
Rectangle Area #5	0 ft X	0 ft X	0 in	0%	Rectangle Area #5	0 ft X	0 ft X	0 in	0%
Rectangle Area #6	0 ft X	0 ft X	0 in	0%	Rectangle Area #6	0 ft X	0 ft X	0 in	0%
Rectangle Area #7	0 ft X	0 ft X	0 in	0%	Rectangle Area #7	0 ft X	0 ft X	0 in	0%
Rectangle Area #8	0 ft X	0 ft X	0 in	0%	Rectangle Area #8	0 ft X	0 ft X	0 in	0%

Saturated Soil Volume Calculations:				Free Liquid Volume Calculations:			
Total Solid/Liquid Volume:	4,760 sq. ft.	H2O cu. ft.	OIL 674 cu. ft.	Total Free Liquid Volume:	sq. ft.	H2O .000 cu. ft.	OIL .000 cu. ft.
<b>Estimated Volumes Spilled</b>				<b>Estimated Production Volumes Lost</b>			
Liquid in Soil:	0.0 BBL	H2O 0.0 BBL	OIL 16.8 BBL	Estimated Production Spilled:	0.000000 BBL	H2O 0.000000 BBL	OIL 0.000000 BBL
Free Liquid:	0.0 BBL		0.0 BBL	<b>Estimated Surface Damage</b>			
Totals:	0.000 BBL		16.813 BBL	Surface Area:	4,760 sq. ft.		
Total Liquid Spill Liquid:	0.000 BBL		16.813 BBL	Surface Area:	.1093 acre		
<b>Recovered Volumes</b>				<b>Estimated Weights, and Volumes</b>			
Estimated oil recovered:	0.0 BBL	check - okay		Saturated Soil =	75,525 lbs	674 cu.ft.	25 cu.yds.
Estimated water recovered:	0.0 BBL	check - okay		Total Liquid =	17 BBL	706.16 gallon	5,875 lbs

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: *dac. dj* \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: *[Handwritten Signature]* Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Ashton Thielke

---

**From:** Ashton Thielke  
**Sent:** Wednesday, April 5, 2023 4:34 PM  
**To:** NMOCD Spill Notifications (OCD.Enviro@emnrd.nm.gov); OCD.Enviro@state.nm.us  
**Cc:** Laci Luig  
**Subject:** NAB1617627149 & nMLB1030934407 - Crow Flats 16 State #2 (Confirmation Sampling Notification)

This new email serves as 48 hr. notification for confirmation sampling on the above mentioned site. Sampling is scheduled to begin as early as 10:00 (MST) April 10, 2023, weather and soil conditions permitting. Incident ID: NAB1617627149 & nMLB1030934407  
Coordinates: 32.9171333,-104.1882935

Thank you,



**Ashton Thielke** | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | [ashton.thielke@coterra.com](mailto:ashton.thielke@coterra.com) | [www.coterra.com](http://www.coterra.com)

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

## Ashton Thielke

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Wednesday, November 29, 2023 5:13 PM  
**To:** Ashton Thielke  
**Cc:** Laci Luig; Hall, Brittany, EMNRD; Bratcher, Michael, EMNRD  
**Subject:** RE: [EXTERNAL] NMLB1030934407 - CROW FLATS 16 STATE COM #002 - Sampling Notification

**WARNING:** This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Hi Ashton,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

*Shelly*

**Shelly Wells** \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Ashton Thielke <Ashton.Thielke@coterra.com>  
**Sent:** Wednesday, November 29, 2023 4:03 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Laci Luig <Laci.Luig@coterra.com>  
**Subject:** [EXTERNAL] NMLB1030934407 - CROW FLATS 16 STATE COM #002 - Sampling Notification

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

This email serves as notification for confirmation sampling on the CROW FLATS 16 STATE COM #002. Confirmation sampling is scheduled to begin as early as 09:00 (MST) Monday, December 4th, weather and soil conditions permitting. Carmona Resources will be onsite to collect the confirmation samples.

Coordinates: 32.9171333,-104.1882935

Thank you,



**Ashton Thielke** | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | [Ashton.Thielke@coterra.com](mailto:Ashton.Thielke@coterra.com) | [www.coterra.com](http://www.coterra.com)

Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise the sender immediately by reply e-mail and delete this message.

# APPENDIX D

CARMONA RESOURCES



# Nearest water well

Cimarex Energy

**Legend**

-  0.50 Mile Radius
-  3.31 Miles
-  3.64 Miles
-  4.17 Miles
-  CROW FLATS 16 STATE COM #002
-  NMSEO Water Well
-  USGS Water Well



CROW FLATS 16 STATE COM #002

49.18' - Drilled 2009

55' - Drilled 2016

70' - Drilled 2015



**Medium Karst**

Cimarex Energy

**Legend**

- CROW FLATS 16 STATE COM #002
- High
- Low
- Medium



CROW FLATS 16 STATE COM #002



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">RA 12455 POD1</a>	RA	ED	2	1	2	36	16S	27E	571998	3638766		5325	200	55	145
<a href="#">RA 12299 POD1</a>	RA	ED	4	3	3	25	16S	28E	580832	3639215		5867	115	70	45

Average Depth to Water: **62 feet**

Minimum Depth: **55 feet**

Maximum Depth: **70 feet**

**Record Count: 2**

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 575898.42

**Northing (Y):** 3642392.2

**Radius:** 6000

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.



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)			(NAD83 UTM in meters)				
		(quarters are smallest to largest)							
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
RA 12455	POD1	2	1	2	36	16S	27E	571998	3638766

<b>Driller License:</b> 1058	<b>Driller Company:</b> KEY'S DRILLING & PUMP SERVICE	
<b>Driller Name:</b> KUEHN III, DONALD		
<b>Drill Start Date:</b> 09/12/2016	<b>Drill Finish Date:</b> 09/13/2016	<b>Plug Date:</b>
<b>Log File Date:</b> 09/29/2016	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 17 GPM
<b>Casing Size:</b> 4.50	<b>Depth Well:</b> 200 feet	<b>Depth Water:</b> 55 feet

Water Bearing Stratifications:	Top	Bottom	Description
	55	65	Sandstone/Gravel/Conglomerate
	80	90	Other/Unknown
	160	200	Other/Unknown

Casing Perforations:	Top	Bottom
	160	200

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.

4/3/23 8:29 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
RA 12299	POD1	4	3	3	25	16S	28E	580832	3639215

<b>Driller License:</b> 1058	<b>Driller Company:</b> KEY'S DRILLING & PUMP SERVICE	
<b>Driller Name:</b> CLINTON KEY		
<b>Drill Start Date:</b> 09/21/2015	<b>Drill Finish Date:</b> 09/23/2015	<b>Plug Date:</b>
<b>Log File Date:</b> 10/07/2015	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 30 GPM
<b>Casing Size:</b> 4.50	<b>Depth Well:</b> 115 feet	<b>Depth Water:</b> 70 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	70	80	Sandstone/Gravel/Conglomerate
	80	90	Shale/Mudstone/Siltstone
	105	115	Other/Unknown

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>	
	95	115	

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.

4/3/23 8:32 AM

POINT OF DIVERSION SUMMARY



USGS Home  
Contact USGS  
Search USGS

### National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

**I** Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

Agency code = usgs  
 site\_no list = 

- 325638104072801

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

### USGS 325638104072801 16S.28E.12.22132

Eddy County, New Mexico  
 Latitude 32°56'38", Longitude 104°07'28" NAD27  
 Land-surface elevation 3,580 feet above NGVD29  
 The depth of the well is 54 feet below land surface.  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source measur
1994-03-09			D 62610		3532.94	NGVD29	1	Z		
1994-03-09			D 62611		3534.45	NAVD88	1	Z		
1994-03-09			D 72019	47.06			1	Z		
1999-01-25			D 62610		3531.65	NGVD29	1	S	USGS	
1999-01-25			D 62611		3533.16	NAVD88	1	S	USGS	
1999-01-25			D 72019	48.35			1	S	USGS	
2004-02-27			D 62610		3530.52	NGVD29	1	S	USGS	
2004-02-27			D 62611		3532.03	NAVD88	1	S	USGS	
2004-02-27			D 72019	49.48			1	S	USGS	
2006-01-26	22:05 UTC		m 62610		3531.65	NGVD29	1	S	NM001	
2006-01-26	22:05 UTC		m 62611		3533.16	NAVD88	1	S	NM001	
2006-01-26	22:05 UTC		m 72019	48.35			1	S	NM001	
2007-02-07			D 62610		3531.28	NGVD29	1	S	NM001	
2007-02-07			D 62611		3532.79	NAVD88	1	S	NM001	

4/3/23, 9:36 AM

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur	
2007-02-07			D	72019	48.72				S	NM001	
2008-01-23	21:05 UTC		m	62610		3531.66	NGVD29		1	S	NM001
2008-01-23	21:05 UTC		m	62611		3533.17	NAVD88		1	S	NM001
2008-01-23	21:05 UTC		m	72019	48.34				1	S	NM001
2009-01-13	16:45 UTC		m	62610		3530.82	NGVD29		1	S	NM001
2009-01-13	16:45 UTC		m	62611		3532.33	NAVD88		1	S	NM001
2009-01-13	16:45 UTC		m	72019	49.18				1	S	NM001

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

- [Questions about sites/data?](#)
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Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

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

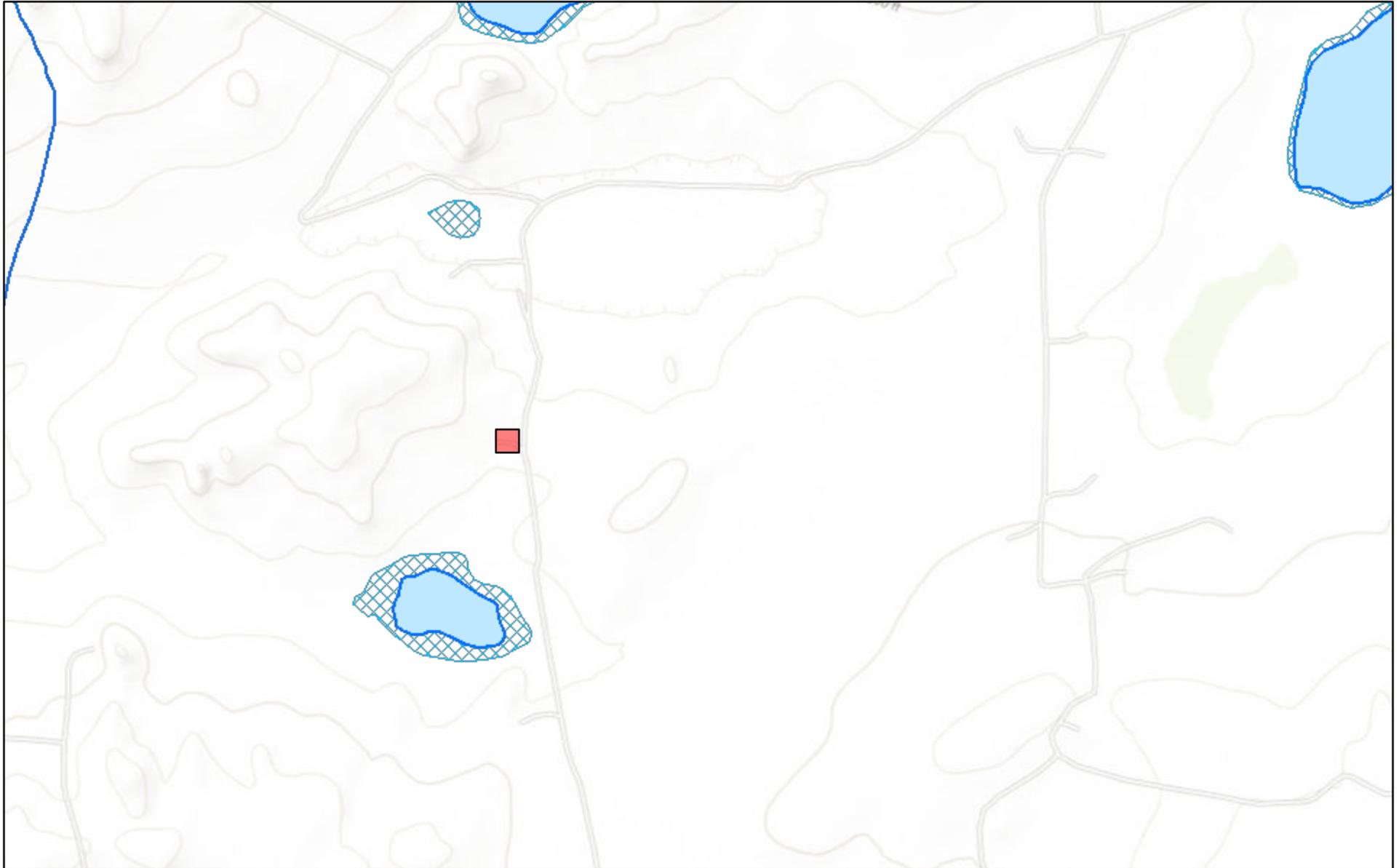


Page Contact Information: [New Mexico Water Data Maintainer](#)

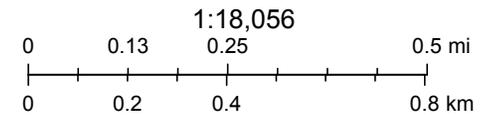
Page Last Modified: 2023-04-03 10:35:19 EDT

0.3 0.25 nadww02

# New Mexico NFHL Data



April 3, 2023



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

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

# APPENDIX E

CARMONA RESOURCES





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

---

March 30, 2023

ASHTON THIELKE  
CARMONA RESOURCES  
310 W WALL ST SUITE 415  
MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 03/28/23 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 1 (0-0.25') (H231409-01)**

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	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 1 (0.25'-0.5') (H231409-02)**

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	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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
<b>Chloride</b>	<b>16.0</b>	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
<b>DRO &gt;C10-C28*</b>	<b>308</b>	10.0	03/29/2023	ND	181	90.7	200	21.4	
<b>EXT DRO &gt;C28-C36</b>	<b>146</b>	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 1 (0.5'-1.0') (H231409-03)**

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	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	997	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	381	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 1 (1.0'-1.5') (H231409-04)**

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	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
<b>DRO &gt;C10-C28*</b>	<b>403</b>	10.0	03/29/2023	ND	181	90.7	200	21.4	
<b>EXT DRO &gt;C28-C36</b>	<b>175</b>	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 1 (1.5'-2.0') (H231409-05)**

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	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
<b>Chloride</b>	<b>16.0</b>	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
<b>DRO &gt;C10-C28*</b>	<b>12.9</b>	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

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

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 2 (0-0.25') (H231409-06)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 2 (0.25'-0.5') (H231409-07)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 2 (0.5'-1.0') (H231409-08)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 2 (1.0'-1.5') (H231409-09)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 66.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.7 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 2 (1.5'-2.0') (H231409-10)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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\*=Accredited Analyte

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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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 3 (0-0.25') (H231409-11)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 3 (0.25'-0.5') (H231409-12)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	208	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 60.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.2 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 3 (0.5'-1.0') (H231409-13)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>320</b>	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 3 (1.0'-1.5') (H231409-14)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	192	16.0	03/29/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 3 (1.5'-2.0') (H231409-15)**

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	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2		
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4		
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND						

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

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

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 4 (0-0.25') (H231409-16)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
<b>DRO &gt;C10-C28*</b>	<b>18.0</b>	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 57.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.4 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 4 (0.25'-0.5') (H231409-17)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 4 (0.5'-1.0') (H231409-18)**

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	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2		
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4		
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND						

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 4 (1.0'-1.5') (H231409-19)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 5 (0-0.25') (H231409-20)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 5 (0.25'-0.5') (H231409-21)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 5 (0.5'-1.0') (H231409-22)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 5 (1.0'-1.5') (H231409-23)**

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	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38		
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21		
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 6 (0-0.25') (H231409-24)**

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	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38		
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21		
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND						

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 6 (0.25'-0.5') (H231409-25)**

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	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 6 (0.5'-1.0') (H231409-26)**

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	03/29/2023	ND	1.89	94.4	2.00	3.90		
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38		
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21		
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND						

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 6 (1.0'-1.5') (H231409-27)**

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	03/29/2023	ND	1.89	94.4	2.00	3.90		
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38		
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21		
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: H - 1 (0-0.5') (H231409-28)**

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	03/29/2023	ND	1.89	94.4	2.00	3.90	
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: H - 2 (0-0.5') (H231409-29)**

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	03/29/2023	ND	1.89	94.4	2.00	3.90	
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: H - 3 (0-0.5') (H231409-30)**

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	03/29/2023	ND	1.89	94.4	2.00	3.90	
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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\*=Accredited Analyte

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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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/30/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: H - 4 (0-0.5') (H231409-31)**

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	03/29/2023	ND	1.89	94.4	2.00	3.90	
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
<b>DRO &gt;C10-C28*</b>	<b>213</b>	10.0	03/29/2023	ND	179	89.3	200	5.21	
<b>EXT DRO &gt;C28-C36</b>	<b>67.9</b>	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 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

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager











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August 29, 2023

ASHTON THIELKE  
CARMONA RESOURCES  
310 W WALL ST SUITE 415  
MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 08/23/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 7 (0-0.25') (H234592-01)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	144	16.0	08/28/2023	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	08/26/2023	ND	175	87.5	200	5.68	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	176	88.0	200	7.93	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 7 (0.25'-0.5') (H234592-02)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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
<b>Chloride</b>	<b>96.0</b>	16.0	08/28/2023	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	08/26/2023	ND	175	87.5	200	5.68	
<b>DRO &gt;C10-C28*</b>	<b>1930</b>	10.0	08/26/2023	ND	176	88.0	200	7.93	
<b>EXT DRO &gt;C28-C36</b>	<b>779</b>	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 7 (0.5'-1.0') (H234592-03)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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
<b>Chloride</b>	<b>112</b>	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
<b>DRO &gt;C10-C28*</b>	<b>2010</b>	10.0	08/26/2023	ND	184	92.0	200	2.71	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>678</b>	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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\*=Accredited Analyte

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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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 7 (1.0'-1.5') (H234592-04)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	345	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	208	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 8 (0-0.25') (H234592-05)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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
<b>Chloride</b>	<b>384</b>	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
<b>DRO &gt;C10-C28*</b>	<b>36.4</b>	10.0	08/26/2023	ND	184	92.0	200	2.71	
<b>EXT DRO &gt;C28-C36</b>	<b>31.6</b>	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 8 (0.25'-0.5') (H234592-06)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	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
<b>Chloride</b>	<b>160</b>	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
<b>DRO &gt;C10-C28*</b>	<b>2090</b>	10.0	08/26/2023	ND	184	92.0	200	2.71	
<b>EXT DRO &gt;C28-C36</b>	<b>958</b>	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 8 (0.5'-1.0') (H234592-07)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	GC-NC
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/28/2023	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*	40.1	10.0	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	5830	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	1420	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 8 (1.0'-1.5') (H234592-08)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	GC-NC
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/28/2023	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*	42.9	10.0	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	6850	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	1580	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 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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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 8 (1.5'-2.0') (H234592-09)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/28/2023	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*	38.2	10.0	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	7240	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	1590	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 9 (0-0.25') (H234592-10)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	330	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	146	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 9 (0.25'-0.5') (H234592-11)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
<b>DRO &gt;C10-C28*</b>	<b>3960</b>	10.0	08/26/2023	ND	184	92.0	200	2.71	
<b>EXT DRO &gt;C28-C36</b>	<b>1410</b>	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 9 (0.5'-1.0') (H234592-12)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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
<b>Chloride</b>	<b>32.0</b>	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
<b>DRO &gt;C10-C28*</b>	<b>519</b>	10.0	08/26/2023	ND	184	92.0	200	2.71	
<b>EXT DRO &gt;C28-C36</b>	<b>192</b>	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 9 (1.0'-1.5') (H234592-13)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	08/28/2023	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	08/25/2023	ND	188	94.1	200	4.10	
<b>DRO &gt;C10-C28*</b>	<b>98.1</b>	10.0	08/25/2023	ND	184	92.0	200	2.71	
<b>EXT DRO &gt;C28-C36</b>	<b>13.4</b>	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 10 (0-0.25') (H234592-14)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2023	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	08/25/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 10 (0.25'-0.5') (H234592-15)**

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	08/27/2023	ND	1.98	98.8	2.00	2.36	
Toluene*	<0.050	0.050	08/27/2023	ND	2.23	111	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.25	112	2.00	4.98	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.70	112	6.00	4.16	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2023	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	08/25/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 10 (0.5'-1.0') (H234592-16)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 10 (1.0'-1.5') (H234592-17)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	48.0	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 11 (0-0.25') (H234592-18)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 11 (0.25'-0.5') (H234592-19)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 63.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 11 (0.5'-1.0') (H234592-20)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 11 (1.0'-1.5') (H234592-21)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 12 (0-0.25') (H234592-22)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2023	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	08/26/2023	ND	188	94.1	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	184	92.0	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 12 (0.25'-0.5') (H234592-23)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/28/2023	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	08/25/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 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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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 12 (0.5'-1.0') (H234592-24)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	64.0	16.0	08/28/2023	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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: S - 12 (1.0'-1.5') (H234592-25)**

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	08/26/2023	ND	1.95	97.5	2.00	2.77	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.1	2.00	3.28	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.04	102	2.00	4.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.05	101	6.00	4.83	
Total BTEX	<0.300	0.300	08/26/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2023	ND	400	100	400	7.69	

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	08/26/2023	ND	179	89.7	200	1.23	
DRO >C10-C28*	<10.0	10.0	08/26/2023	ND	173	86.5	200	5.13	
EXT DRO >C28-C36	<10.0	10.0	08/26/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 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.
- GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No:

A234592

Page 2 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luing
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 415	Address:	600 N Marlenfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	<a href="mailto:laci.luing@coterra.com">laci.luing@coterra.com</a> <a href="mailto:ashton.thielke@coterra.com">ashton.thielke@coterra.com</a>

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

Project Name:	Crow Flats 16 State Com #002	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	2005	Due Date:	Normal		
Project Location:	Eddy County, New Mexico				
Sampler's Name:	GPJ				
PO #:					

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M ( GRO + DRO + MRO)	Chloride 4500	
S-9 (0.25-0.5')	8/23/2023		X		G	1	X	X	X	
S-9 (0.5-1.0')	8/23/2023		X		G	1	X	X	X	
S-9 (1.0-1.5')	8/23/2023		X		G	1	X	X	X	
S-10 (0.25-0.5')	8/23/2023		X		G	1	X	X	X	
S-10 (0.5-1.0')	8/23/2023		X		G	1	X	X	X	
S-10 (1.0-1.5')	8/23/2023		X		G	1	X	X	X	
S-11 (0.25-0.5')	8/23/2023		X		G	1	X	X	X	
S-11 (0.5-1.0')	8/23/2023		X		G	1	X	X	X	

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8-23-23 1555		





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---

December 01, 2023

ASHTON THIELKE  
CARMONA RESOURCES  
310 W WALL ST SUITE 415  
MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 11/30/23 14:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 1 ( 0-1' ) (H236450-01)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	480	16.0	12/01/2023	ND	416	104	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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\*=Accredited Analyte

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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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 1 ( 1.5' ) (H236450-02)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 1 ( 2.0' ) (H236450-03)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	592	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 1 ( 3.0' ) (H236450-04)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 1 ( 4.0' ) (H236450-05)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 2 ( 0-1' ) (H236450-06)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 2 ( 1.5' ) (H236450-07)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 2 ( 2.0' ) (H236450-08)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 2 ( 3.0' ) (H236450-09)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	53.4	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	13.2	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 2 ( 4.0' ) (H236450-10)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
<b>DRO &gt;C10-C28*</b>	<b>41.2</b>	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 3 ( 0-1' ) (H236450-11)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 3 ( 1.5' ) (H236450-12)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 3 ( 2.0' ) (H236450-13)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 3 ( 3.0' ) (H236450-14)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 3 ( 4.0' ) (H236450-15)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 4 ( 0-1' ) (H236450-16)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 4 ( 1.5' ) (H236450-17)**

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	11/30/2023	ND	2.01	101	2.00	3.23		
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54		
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73		
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97		
Total BTEX	<0.300	0.300	11/30/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/01/2023	ND	448	112	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	12/01/2023	ND	206	103	200	5.08		
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	185	92.4	200	2.15		
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND						

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 4 ( 2.0' ) (H236450-18)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/01/2023	ND	448	112	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	12/01/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 4 ( 3.0' ) (H236450-19)**

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	11/30/2023	ND	2.01	101	2.00	3.23		
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54		
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73		
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97		
Total BTEX	<0.300	0.300	11/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/01/2023	ND	448	112	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	12/01/2023	ND	206	103	200	5.08		
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	185	92.4	200	2.15		
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND						

Surrogate: 1-Chlorooctane 91.1 % 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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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 4 ( 4.0' ) (H236450-20)**

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	11/30/2023	ND	2.01	101	2.00	3.23	
Toluene*	<0.050	0.050	11/30/2023	ND	2.13	106	2.00	4.54	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	2.14	107	2.00	3.73	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	6.51	109	6.00	3.97	
Total BTEX	<0.300	0.300	11/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/01/2023	ND	448	112	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	12/01/2023	ND	206	103	200	5.08	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	185	92.4	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 5 ( 0-1' ) (H236450-21)**

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	11/30/2023	ND	1.81	90.6	2.00	11.0	
Toluene*	<0.050	0.050	11/30/2023	ND	1.82	91.1	2.00	10.9	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	1.84	92.0	2.00	9.94	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	5.44	90.7	6.00	9.91	
Total BTEX	<0.300	0.300	11/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/01/2023	ND	448	112	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	11/30/2023	ND	217	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	183	91.3	200	0.435	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 68.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.0 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 5 ( 1.5' ) (H236450-22)**

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	11/30/2023	ND	1.81	90.6	2.00	11.0	
Toluene*	<0.050	0.050	11/30/2023	ND	1.82	91.1	2.00	10.9	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	1.84	92.0	2.00	9.94	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	5.44	90.7	6.00	9.91	
Total BTEX	<0.300	0.300	11/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	192	16.0	12/01/2023	ND	432	108	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	11/30/2023	ND	217	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	183	91.3	200	0.435	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.6 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 5 ( 2.0' ) (H236450-23)**

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	11/30/2023	ND	1.81	90.6	2.00	11.0	
Toluene*	<0.050	0.050	11/30/2023	ND	1.82	91.1	2.00	10.9	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	1.84	92.0	2.00	9.94	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	5.44	90.7	6.00	9.91	
Total BTEX	<0.300	0.300	11/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
<b>Chloride</b>	<b>144</b>	16.0	12/01/2023	ND	432	108	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	11/30/2023	ND	217	108	200	8.07	
<b>DRO &gt;C10-C28*</b>	<b>26.5</b>	10.0	11/30/2023	ND	183	91.3	200	0.435	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 5 ( 3.0' ) (H236450-24)**

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	11/30/2023	ND	1.81	90.6	2.00	11.0	
Toluene*	<0.050	0.050	11/30/2023	ND	1.82	91.1	2.00	10.9	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	1.84	92.0	2.00	9.94	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	5.44	90.7	6.00	9.91	
Total BTEX	<0.300	0.300	11/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	128	16.0	12/01/2023	ND	432	108	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	11/30/2023	ND	217	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	183	91.3	200	0.435	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/01/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: T - 5 ( 4.0' ) (H236450-25)**

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	11/30/2023	ND	1.81	90.6	2.00	11.0		
Toluene*	<0.050	0.050	11/30/2023	ND	1.82	91.1	2.00	10.9		
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	1.84	92.0	2.00	9.94		
Total Xylenes*	<0.150	0.150	11/30/2023	ND	5.44	90.7	6.00	9.91		
Total BTEX	<0.300	0.300	11/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	96.0	16.0	12/01/2023	ND	432	108	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	11/30/2023	ND	217	108	200	8.07		
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	183	91.3	200	0.435		
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND						

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.5 % 49.1-148

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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager









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

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April 12, 2023

ASHTON THIELKE  
CARMONA RESOURCES  
310 W WALL ST SUITE 415  
MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 04/11/23 8:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 1 (1.5'-2') (H231684-01)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	04/11/2023	Sampling Date:	04/10/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 2 (1.5'-2') (H231684-02)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	80.0	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	04/11/2023	Sampling Date:	04/10/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 3 (1.5'-2') (H231684-03)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02		
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40		
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND						

Surrogate: 1-Chlorooctane 95.9 % 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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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 4 (1.5'-2') (H231684-04)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	04/11/2023	Sampling Date:	04/10/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 5 (1.5'-2') (H231684-05)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02		
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40		
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND						

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 6 (1.5'-2') (H231684-06)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 7 (1.5'-2') (H231684-07)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02		
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40		
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND						

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 8 (1.5'-2') (H231684-08)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02		
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40		
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND						

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 9 (1.5'-2') (H231684-09)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02		
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40		
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND						

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	04/11/2023	Sampling Date:	04/10/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 10 (1.5'-2') (H231684-10)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02		
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40		
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND						

Surrogate: 1-Chlorooctane 97.7 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 11 (1.5'-2') (H231684-11)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 12 (1.5'-2') (H231684-12)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 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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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 1 (1.5'-2') (H231684-13)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 2 (1.5'-2') (H231684-14)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
<b>DRO &gt;C10-C28*</b>	<b>17.4</b>	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	04/11/2023	Sampling Date:	04/10/2023
Reported:	04/12/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 3 (1.5'-2') (H231684-15)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 4 (1.5'-2') (H231684-16)**

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	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager







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April 13, 2023

ASHTON THIELKE  
CARMONA RESOURCES  
310 W WALL ST SUITE 415  
MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 04/12/23 15:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	04/12/2023	Sampling Date:	04/12/2023
Reported:	04/13/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2005	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 7 (2') (H231748-01)**

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	04/13/2023	ND	1.93	96.3	2.00	9.25	QR-03	
Toluene*	<0.050	0.050	04/13/2023	ND	2.04	102	2.00	8.99	QR-03	
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.14	107	2.00	8.82	QR-03	
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.55	109	6.00	7.82	QR-03	
Total BTEX	<0.300	0.300	04/13/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/13/2023	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	04/13/2023	ND	202	101	200	3.53		
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	200	100	200	3.10		
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND						

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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---

December 05, 2023

ASHTON THIELKE  
CARMONA RESOURCES  
310 W WALL ST SUITE 415  
MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 12/04/23 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 13 (4.0') (H236509-01)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	560	16.0	12/05/2023	ND	400	100	400	7.69	

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	12/05/2023	ND	195	97.7	200	3.08	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 14 (4.0') (H236509-02)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	560	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	200	99.8	200	1.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	180	89.9	200	6.34		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 104 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 15 (4.0') (H236509-03)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 16 (4.0') (H236509-04)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 17 (4.0') (H236509-05)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 18 (4.0') (H236509-06)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 93.5 % 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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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 19 (4.0') (H236509-07)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 20 (2.5') (H236509-08)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 21 (2.5') (H236509-09)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 97.6 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 22 (2.5') (H236509-10)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	48.0	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 23 (2.5') (H236509-11)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	48.0	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 24 (2.5') (H236509-12)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 25 (2.5') (H236509-13)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	48.0	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 26 (2.0') (H236509-14)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 27 (2.0') (H236509-15)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	144	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 28 (2.0') (H236509-16)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 29 (2.0') (H236509-17)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2		
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/05/2023	ND	400	100	400	7.69		

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	12/05/2023	ND	195	97.7	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 30 (2.0') (H236509-18)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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
<b>Chloride</b>	<b>144</b>	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	195	97.7	200	3.08	
<b>DRO &gt;C10-C28*</b>	<b>10.9</b>	10.0	12/05/2023	ND	202	101	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 31 (2.0') (H236509-19)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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
<b>Chloride</b>	<b>112</b>	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	195	97.7	200	3.08	
<b>DRO &gt;C10-C28*</b>	<b>79.9</b>	10.0	12/05/2023	ND	202	101	200	5.07	
<b>EXT DRO &gt;C28-C36</b>	<b>25.6</b>	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 32 (2.0') (H236509-20)**

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	12/04/2023	ND	1.97	98.6	2.00	10.2	
Toluene*	<0.050	0.050	12/04/2023	ND	2.09	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.09	104	2.00	10.9	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.29	105	6.00	10.6	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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
<b>Chloride</b>	<b>128</b>	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	195	97.7	200	3.08	
<b>DRO &gt;C10-C28*</b>	<b>34.9</b>	10.0	12/05/2023	ND	202	101	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 5 (4.0') (H236509-21)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	195	97.7	200	3.08	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	202	101	200	5.07	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 6 (4.0') (H236509-22)**

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	12/04/2023	ND	2.17	109	2.00	1.81		
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 7 (4.0') (H236509-23)**

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	12/04/2023	ND	2.17	109	2.00	1.81		
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74		
Total BTEX	<0.300	0.300	12/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 8 (1.5') (H236509-24)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 9 (4.0') (H236509-25)**

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	12/04/2023	ND	2.17	109	2.00	1.81		
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74		
Total BTEX	<0.300	0.300	12/04/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 10 (4.0') (H236509-26)**

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	12/04/2023	ND	2.17	109	2.00	1.81		
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65		
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29		
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND						

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 11 (2.5') (H236509-27)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.4 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 12 (2.5') (H236509-28)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 13 (2.5') (H236509-29)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 14 (2.0') (H236509-30)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 15 (2.0') (H236509-31)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 16 (2.0') (H236509-32)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	174	87.2	200	2.29	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/04/2023	Sampling Date:	12/04/2023
Reported:	12/05/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 17 (2.0') (H236509-33)**

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	12/04/2023	ND	2.17	109	2.00	1.81	
Toluene*	<0.050	0.050	12/04/2023	ND	2.15	108	2.00	2.03	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.13	107	2.00	2.35	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	6.79	113	6.00	1.74	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/05/2023	ND	432	108	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	12/05/2023	ND	205	102	200	1.65	
DRO >C10-C28*	152	10.0	12/05/2023	ND	174	87.2	200	2.29	
EXT DRO >C28-C36	101	10.0	12/05/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No:

*A233450*

Page 2 of 4

Page 37 of 39

Project Manager:	Ashion Thielke	Bill to: (if different)	Laci Luing
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	6001 Deauville Blvd, Suite 300N
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	laci.luing@colterra.com ashion.thielke@colterra.com

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

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Preservative Codes
							BTEX 8021B	TPH 8015M ( GRO + DRO + MRO)	Chloride 4500	
CS-23 (2.5)	12/4/2023		X		Comp	1	X	X	X	
CS-24 (2.5)	12/4/2023		X		Comp	1	X	X	X	
CS-25 (2.5)	12/4/2023		X		Comp	1	X	X	X	
CS-26 (2.0)	12/4/2023		X		Comp	1	X	X	X	
CS-27 (2.0)	12/4/2023		X		Comp	1	X	X	X	
CS-28 (2.0)	12/4/2023		X		Comp	1	X	X	X	
CS-29 (2.0)	12/4/2023		X		Comp	1	X	X	X	
CS-30 (2.0)	12/4/2023		X		Comp	1	X	X	X	
CS-31 (2.0)	12/4/2023		X		Comp	1	X	X	X	
CS-32 (2.0)	12/4/2023		X		Comp	1	X	X	X	

Comments:

Relinquished by: (Signature)

*[Signature]*

Date/Time

12/14/23 11:45

Received by: (Signature)

*[Signature]*

Date/Time



Chain of Custody

Work Order No: 11236508

Page 4 of 4

Page 39 of 39

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luing
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	6001 Deauville Blvd, Suite 300N
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	laci.luing@colerra.com ashton.thielke@colerra.com

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

Project Name:	Project Number:	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
		<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		Due Date:													None: NO	DI Water: H <sub>2</sub> O	
Crow Flats 16 State Com #002	2213			24 Hour													Cool: Cool	MeOH: Me		
Project Location:	Eddy County, New Mexico																HCL: HC	HNO <sub>3</sub> : HN		
Sampler's Name:	GPJ																H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na		
PO #:																	H <sub>3</sub> PO <sub>4</sub> : HP			
<b>SAMPLE RECEIPT</b>	Temp Blank:	Yes	No	Wet Ice:	Yes	No											NaHSO <sub>4</sub> : NABIS			
Received Intact:	Yes	No	Thermometer ID:	146														Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub>		
Cooler Custody Seals:	Yes	No	Correction Factor:	1.72														Zn Acetate+NaOH: Zn		
Sample Custody Seals:	Yes	No	Temperature Reading:															NaOH+Ascorbic Acid: SAPC		
Total Containers:	Corrected Temperature:																			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
SW-15 (2.0')	12/4/2023		X		Comp	1	X	X	X											
SW-16 (2.0')	12/4/2023		X		Comp	1	X	X	X											
SW-17 (2.0')	12/4/2023		X		Comp	1	X	X	X											

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12/4/23 16:48	<i>[Signature]</i>	



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---

December 07, 2023

ASHTON THIELKE  
CARMONA RESOURCES  
310 W WALL ST SUITE 415  
MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 12/06/23 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/06/2023	Sampling Date:	12/06/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: CS - 31 ( 2.0'-2.5' ) (H236551-01)**

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	12/06/2023	ND	2.31	116	2.00	3.75	
Toluene*	<0.050	0.050	12/06/2023	ND	2.28	114	2.00	9.22	
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.36	118	2.00	10.5	
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.93	116	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	12/07/2023	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	12/07/2023	ND	192	95.8	200	0.211	
DRO >C10-C28*	<10.0	10.0	12/07/2023	ND	169	84.4	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	12/07/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 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 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	12/06/2023	Sampling Date:	12/06/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	CROW FLATS 16 STATE COM #002	Sampling Condition:	Cool & Intact
Project Number:	2213	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NEW MEXICO		

**Sample ID: SW - 17 ( 2.0' ) (H236551-02)**

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	12/06/2023	ND	2.31	116	2.00	3.75	
Toluene*	<0.050	0.050	12/06/2023	ND	2.28	114	2.00	9.22	
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.36	118	2.00	10.5	
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.93	116	6.00	8.95	
Total BTEX	<0.300	0.300	12/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/07/2023	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	12/07/2023	ND	192	95.8	200	0.211	
DRO >C10-C28*	<10.0	10.0	12/07/2023	ND	169	84.4	200	2.07	
EXT DRO >C28-C36	<10.0	10.0	12/07/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



**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 299388

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299388
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nMLB1030934407
Incident Name	NMLB1030934407 CROW FLATS 16 STATE COM #002 @ 30-015-35556
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-35556] CROW FLATS 16 STATE COM #002

**Location of Release Source**

Please answer all the questions in this group.

Site Name	CROW FLATS 16 STATE COM #002
Date Release Discovered	10/12/2010
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil 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	Cause: Equipment Failure   Pump   Crude Oil   Released: 17 BBL   Recovered: 0 BBL   Lost: 17 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

**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 299388

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299388
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/03/2024
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**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299388
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**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
<i>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.</i>	
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)	720
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8868
GRO+DRO (EPA SW-846 Method 8015M)	7278
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	04/10/2023
On what date will (or did) the final sampling or liner inspection occur	12/06/2023
On what date will (or was) the remediation complete(d)	12/06/2023
What is the estimated surface area (in square feet) that will be reclaimed	6000
What is the estimated volume (in cubic yards) that will be reclaimed	570
What is the estimated surface area (in square feet) that will be remediated	6000
What is the estimated volume (in cubic yards) that will be remediated	570

*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 299388

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299388
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 01/03/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 299388

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299388
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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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Action 299388

**QUESTIONS (continued)**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299388
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>299453</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>12/04/2023</b>
What was the (estimated) number of samples that were to be gathered	<b>45</b>
What was the sampling surface area in square feet	<b>6000</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
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	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>6000</b>
What was the total volume (cubic yards) remediated	<b>570</b>
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	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>6000</b>
What was the total volume (in cubic yards) reclaimed	<b>570</b>
Summarize any additional remediation activities not included by answers (above)	<b>Dig and Haul to disposal, backfilled with clean topsoil since since has been P/a'd for years, will reseed during growing season</b>

*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: Laci Luig Title: ES&H Specialist Email: DL_PerminianEnvironmental@coterra.com Date: 01/03/2024
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Action 299388

**QUESTIONS (continued)**

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS

Action 299388

**CONDITIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 299388
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	Closure approved. A complete and accurate reclamation report will need to be submitted. The reclamation report will need to address the requirements of 19.15.29.13 NMAC including pictures of the reclaimed area, and a proposed revegetation plan. Subsequent to the approval of a reclamation plan, a revegetation report will need to be submitted, including pictures of the revegetated areas, once the site meets the requirements for vegetation cover found in 19.15.29.13 D.(3) NMAC. Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used as long as the requirements of the surface owner provide equal or better protection of freshwater, human health and the environment.	1/3/2024