

CARMONA RESOURCES



## SITE INFORMATION

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**Closure Report**  
**Cooper 31 Federal #001H (07.05.18)**  
**2RP-4846**  
**Eddy County, New Mexico**  
**Unit A Sec 31 T25S R29E**  
**32.0917931°, -104.0170746°**

**Produced Water Release**  
**Point of Release: Line Corrosion**  
**Release Date: 07.05.18**  
**Volume Released: 20 barrels of Produced Water**  
**Volume Recovered: 15 barrels of Produced Water**

CARMONA RESOURCES



**Prepared for:**  
**Concho Operating, LLC**  
**15 West London Road,**  
**Loving, New Mexico 88256**

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

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Midland TX, 79701  
432.813.1992



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August 1, 2023

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

**Re: Closure Report  
Cooper 31 Federal #001H (07.05.18)  
Concho Operating, LLC  
2RP-4846  
Site Location: Unit A, S31, T25S, R29E  
(Lat 32.0917931°, Long -104.0170746°)  
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document additional site activities at the Cooper 31 Federal #001H. The site is located at the GPS 32.0917931°, -104.0170746° within Unit A, S31, T25S, R29E in Eddy County, New Mexico.

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

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 5, 2018, due to a cored line. It resulted in approximately twenty (20) barrels of produced water and fifteen (15) barrels of produced water recovered. See Figure 3. The initial C-141 form is attached in Appendix C.

#### **2RP-4846**

On May 1, 2023, the New Mexico OCD denied the delineation work plan submitted for the following reason: \*(The depth of groundwater has not been adequately determined. When nearby wells are used to determine the depth to groundwater, the wells should be no further than 0.50 miles away from the site, data should be no more than 25 years old, and well construction information should be provided in the submission.)

### **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 located approximately 0.70 miles East of the site in S32, T25S, R29E and was drilled in 1992. The well has a reported depth to groundwater of 98.13' below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

On January 17, 2023, Carmona Resources, LLC was onsite to drill a groundwater determination bore to 55' below ground surface within a 0.50-mile radius of the location. The groundwater determination bore is located approximately 0.01 miles southwest of the site at 32.091858°, -104.017397° in S31, T25S, and R29E. The bore was left open for 72 hours and tagged with a water

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level meter. The bore has shown no signs of water at a depth of 55' below the ground surface (bgs). A copy of the groundwater determination bore log is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

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

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

### **4.0 Site Assessment Activities**

#### **Trenching Assessment**

On July 27, 2023, Carmona Resources, LLC performed trenching activities to evaluate soil impacts stemming from the release. A total of one (1) trench was installed at SP-2 to delineate the impacts vertically. The trench was installed to a total depth from the surface to 8.0' bgs inside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to 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.

See Table 1 for the analytical results.

### **5.0 Remediation Activities**

Carmona Resources, LLC 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 July 24, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The entire area of concern was excavated to a depth of 1.0' below the surface. A total of twenty-five (25) floor confirmation samples (CS-1 through CS-25) were collected, and eight (8) sidewall samples (SW-1 through SW-8) 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 3.

All final confirmation samples were below the regulatory and reclamation 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 320 cubic yards of material were excavated and transported offsite for proper disposal.



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## **6.0 Conclusions**

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

Sincerely,

**Carmona Resources, LLC**

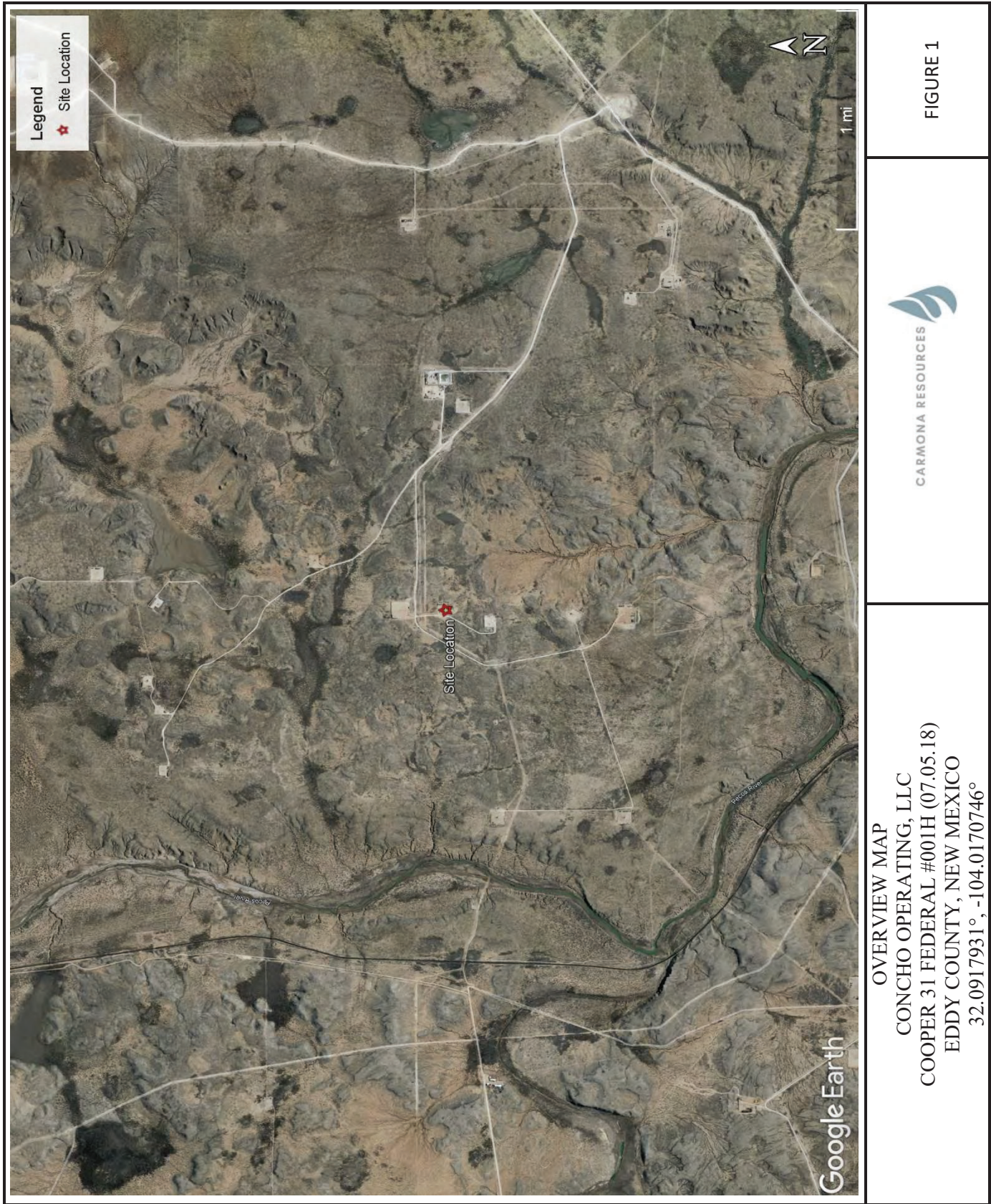
Mike Carmona  
Environmental Manager

Conner Moehring  
Sr. Project Manager

## FIGURES

CARMONA RESOURCES









TOPOGRAPHIC MAP  
CONCHO OPERATING, LLC  
COOPER 31 FEDERAL #001H (07.05.18)  
EDDY COUNTY, NEW MEXICO  
32.0917931° -104.0170746°

CARMONA RESOURCES

FIGURE 2



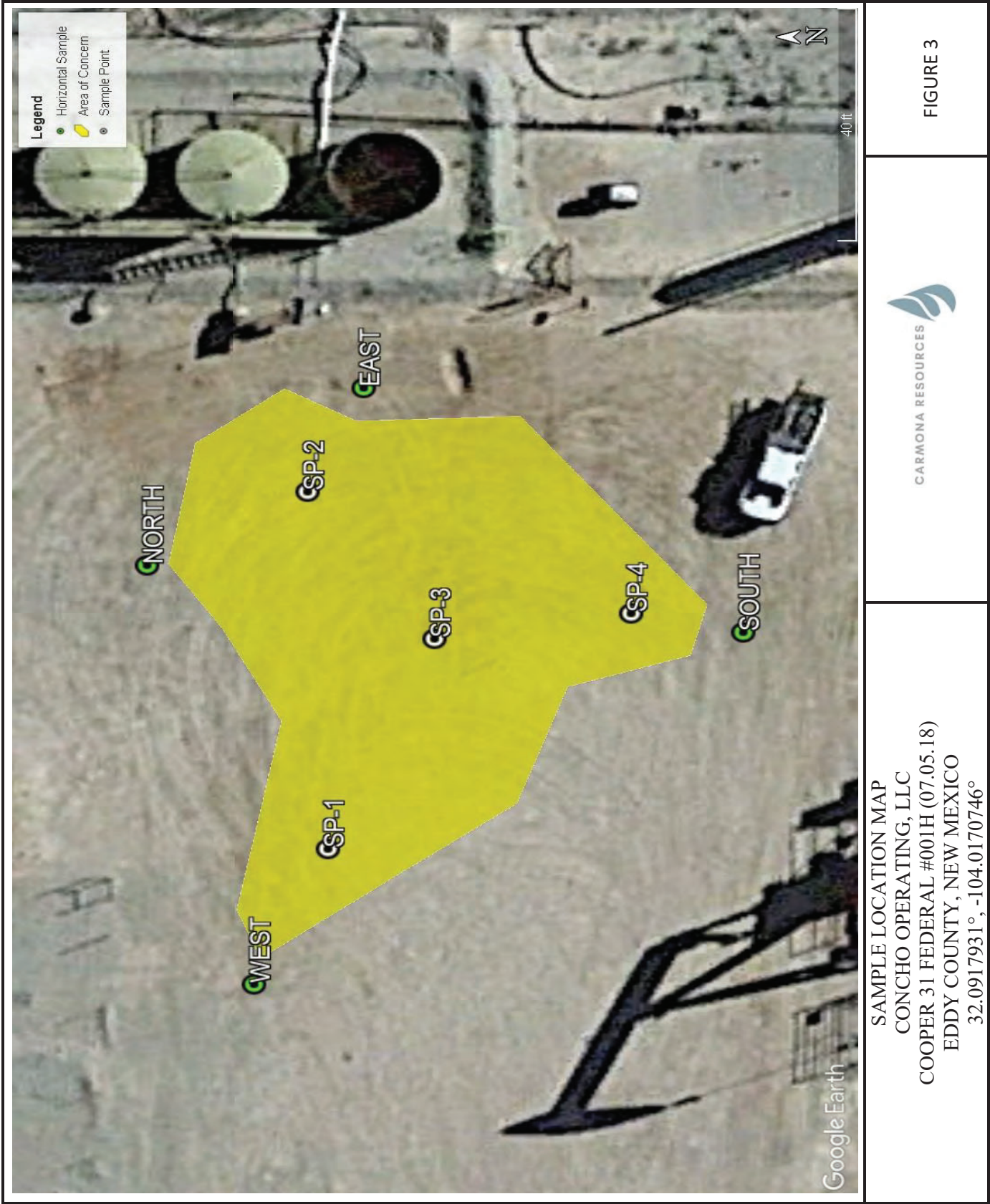






FIGURE 4



EXCAVATION MAP  
CONCHO OPERATING, LLC  
COOPER 31 FEDERAL #001H (07.05.18)  
EDDY COUNTY, NEW MEXICO  
32.0917931°, -104.0170746°

## APPENDIX A

CARMONA RESOURCES



Laboratory Analytical Results Summary  
Cooper 31 Federal #001H (7/5/18)

Analyte	Method	Sample ID Date	SP1 @ SURFACE				
			SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500C-B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			22000	464	528	336	288
GRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			17.1	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a	n/a

Analyte	Method	Sample ID Date	SP2 @ SURFACE				
			SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500C-B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			30400	1090	1730	1100	720
GRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a	n/a

Analyte	Method	Sample ID Date	SP3 @ SURFACE				
			SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500C-B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			24400	1840	1960	1040	272
GRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a	n/a

Analyte	Method	Sample ID Date	SP4 @ SURFACE			
			SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			<0.300	<0.300	n/a	n/a
Chloride	SM4500C-B	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			28400	1650	2400	112
GRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a
DRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M	9/14/18	mg/kg	mg/kg	mg/kg	mg/kg
			<10.0	<10.0	n/a	n/a

Analyte	Method	Sample ID Date	NORTH @ SURFACE		EAST @ SURFACE		WEST @ SURFACE		SOUTH @ SURFACE	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	9/17/18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B	9/17/18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B	9/17/18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B	9/17/18	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B	9/17/18	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500C-B	9/17/18	416	416	416	160	160	160	288	288
GRO	TPH 8015M	9/17/18	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M	9/17/18	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M	9/17/18	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0



**Table 1**  
**COG Operating**  
**Cooper 31 Federal 001H (07.05.18)**  
**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						
<b>SP-2</b>	7/26/2023	6.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<b>SP-2</b>	7/26/2023	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<b>SP-2</b>	7/26/2023	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<i>Regulatory Criteria<sup>A</sup></i>			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(SP) Sample Point

**Table 2**  
**COG Operating**  
**Cooper 31 Federal 001H (07.05.18)**  
**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	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
CS-2	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
CS-3	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
CS-4	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
CS-5	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
CS-6	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
CS-7	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
CS-8	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
CS-9	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
CS-10	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-11	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	992
CS-12	7/26/2023	1.0	<10.0	15.2	<10.0	15.2	<0.050	<0.050	<0.050	<0.150	<0.300	1,010
CS-13	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,360
CS-14	7/26/2023	1.0	<10.0	34.8	17.2	52.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,360
CS-15	7/26/2023	1.0	<10.0	12.0	<10.0	12.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,470
CS-16	7/26/2023	1.0	<10.0	10.3	<10.0	10.3	<0.050	<0.050	<0.050	<0.150	<0.300	1,410
CS-17	7/26/2023	1.0	<10.0	19.0	<10.0	19.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,410
CS-18	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,580
CS-19	7/26/2023	1.0	<10.0	11.5	<10.0	11.5	<0.050	<0.050	<0.050	<0.150	<0.300	1,390
CS-20	7/26/2023	1.0	<10.0	13.5	10.5	24.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,420
CS-21	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
CS-22	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-23	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-24	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
CS-25	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
<b>Regulatory Criteria<sup>A</sup></b>			<b>1,000 mg/kg</b>			<b>2,500 mg/kg</b>	<b>10 mg/kg</b>				<b>50 mg/kg</b>	<b>10,000 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

(CS) Confirmation Sample

**Table 2**  
**COG Operating**  
**Cooper 31 Federal 001H (07.05.18)**  
**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						
<b>SW-1</b>	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>SW-2</b>	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<b>SW-3</b>	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>SW-4</b>	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<b>SW-5</b>	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<b>SW-6</b>	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<b>SW-7</b>	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<b>SW-8</b>	7/26/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<b>Regulatory Criteria <sup>A</sup></b>			<b>1,000 mg/kg</b>			<b>2,500 mg/kg</b>	<b>10 mg/kg</b>				<b>50 mg/kg</b>	<b>10,000 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

(SW) Sidewall Sample

## APPENDIX B

CARMONA RESOURCES



## PHOTOGRAPHIC LOG

Concho Operating, LLC

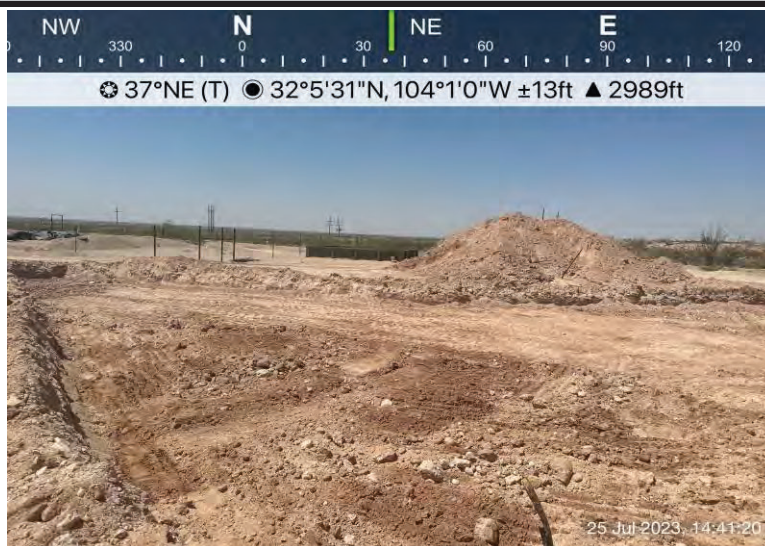
## Photograph No. 1

**Facility:** Cooper 31 Federal #001H  
(07.05.18)

**County:** Eddy County, New Mexico

**Description:**

View Northeast, area of Confirmation samples (1-10).



## Photograph No. 2

**Facility:** Cooper 31 Federal #001H  
(07.05.18)

**County:** Eddy County, New Mexico

**Description:**

View East, area of Confirmation samples (10-25).



## Photograph No. 3

**Facility:** Cooper 31 Federal #001H  
(07.05.18)

**County:** Eddy County, New Mexico

**Description:**

View Northeast, area of Confirmation samples (11-25).



## PHOTOGRAPHIC LOG

Concho Operating, LLC

## Photograph No. 4

**Facility:** Cooper 31 Federal #001H  
(07.05.18)

**County:** Eddy County, New Mexico

**Description:**  
View Northeast, area of Confirmation samples (21-25).





## APPENDIX C

CARMONA RESOURCES



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

JUL 09 2018

Form C-141  
Revised April 3, 2017

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

DISTRICT II-ARTESIA O.C.D.  
Submit Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

DAB1819153807

## OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Production, LLC (OGRID #217955)	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Cooper 31 Federal #001H	Facility Type: Tank Battery

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-36282
------------------------	------------------------	----------------------

## LOCATION OF RELEASE

Unit Letter A	Section 31	Township 25S	Range 39E	Feet from the 660	North/South Line North	Feet from the 660	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.0917931 Longitude -104.0170746 NAD83

## NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20 bbl.	Volume Recovered: 15 bbl.
Source of Release: Corroded line	Date and Hour of Occurrence: July 5, 2018 1:30pm	Date and Hour of Discovery: July 5, 2018 1:30pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" 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.\*

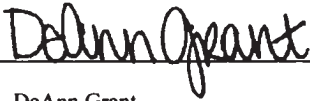


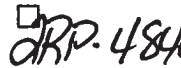
Describe Cause of Problem and Remedial Action Taken.\*

The release was caused by a corroded load line. The line is being replaced.

Describe Area Affected and Cleanup Action Taken.\*

The release was on location. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant 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 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: 	OIL CONSERVATION DIVISION	
Printed Name: DeAnn Grant	Signed By  Approved by Environmental Specialist:	
Title: HSE Administrative Assistant	Approval Date: 7/9/18	Expiration Date: N/A
E-mail Address: agrant@concho.com	Conditions of Approval: 	Attached <input type="checkbox"/> 
Date: July 9, 2018	Phone: 432-253-4513	

\* Attach Additional Sheets If Necessary



Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/9/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4846 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 8/9/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us

**Bratcher, Mike, EMNRD**

---

**From:** DeAnn Grant <agrant@concho.com>  
**Sent:** Monday, July 9, 2018 10:16 AM  
**To:** Bratcher, Mike, EMNRD; Tucker, Shelly  
**Cc:** Weaver, Crystal, EMNRD; jamos@blm.gov; Sheldon Hitchcock; Dakota Neel; Rebecca Haskell; DeAnn Grant  
**Subject:** (C-141 Initial) Cooper 31 Federal #001H (30-015-36282) 07-05-2018  
**Attachments:** (C-141 Initial) Cooper 31 Federal #001H (30-015-36282) 07-05-2018.pdf

Mr. Bratcher/Ms. Tucker,

Please find the attached Initial C-141 for your consideration. If you have any questions or concerns please contact me.

Thank you,

**DeAnn Grant**

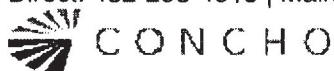
HSE Administrative Assistant

[agrant@concho.com](mailto:agrant@concho.com)

COG Operating LLC

600 W Illinois Avenue | Midland, TX 79701

Direct: 432-253-4513 | Main: 432.683.7443



NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Further, any contract terms proposed or purportedly accepted in this email are not binding and are subject to management's final approval as memorialized in a separate written instrument, excluding electronic correspondence, executed by an authorized representative of COG Operating LLC or its affiliates.



Incident ID	NAB1819153807
District RP	2RP-4846
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?	>55' _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" 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	NAB1819153807
District RP	2RP-4846
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: Jacqui Harris Title: Sr. Environmental EngineerSignature:  Date: 8.7.23email: jacqui.harris@conocophillips.com Telephone: 575-496-0780**OCD Only**Received by: Shelly Wells Date: 8/8/2023

Incident ID	NAB1819153807
District RP	2RP-4846
Facility ID	
Application ID	

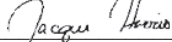
## Closure

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: Jacqui HarrisTitle: Sr. Environmental EngineerSignature: Date: 8.7.23email: jacqui.harris@conocophillips.comTelephone: 575-496-0780

### OCD Only

Received by: Shelly WellsDate: 8/8/2023

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: 8/8/2023Printed Name: Brittany HallTitle: Environmental Specialist

## APPENDIX D

CARMONA RESOURCES











**Medium Karst**

Cooper 31 Federal #001H (07.05.23)  
El Paso County, New Mexico  
91858, -104.017397

Google Earth

CARMONA RESOURCES



Project Name :	COG Cooper 31 1H (09.26.22) BH-4	Date :	Tuesday, January 17, 2023
Project No. :	1141	Sampler :	Lane Scarborough
Location :	Eddy County, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.091858°, -104.017397°	Method :	Air Rotary
Elevation :	2,982'		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Black/Brown sandy clay with <25% medium angular well cemented gravel, dry, odorous, no organics (ML).		50		(50') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).	
5		(5') - Brown sandy clay with <25% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		55		(55') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).	
10		(10') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		60			
15		(15') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		65			
20		(20') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		70			
25		(25') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		75			
30		(30') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		80			
35		(35') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		85			
40		(40') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		90			
45		(45') - Brown sandy clay with <50% medium angular well cemented gypsum fragments, dry, odorous, no organics (ML).		95			
50				105			

Comments : Boring terminated at 55' with no detection of groundwater. Well was measured with groundwater probe on 1/20/23 and no water was detected.



# 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="#">C 01337</a>	C		ED	2	1	30	25S	29E		591926	3552642*	1794	180	30	150
<a href="#">C 04473 POD1</a>	CUB		ED	3	4	3	33	25S	29E	595018	3549768	2581	110		
<a href="#">C 03508 POD1</a>	C		ED	1	3	3	05	26S	29E	593063	3548361	2720	140	75	65
<a href="#">C 03507 POD1</a>	C		ED	1	3	3	05	26S	29E	593064	3548313	2768	140	78	62

Average Depth to Water: **61 feet**

Minimum Depth: **30 feet**

Maximum Depth: **78 feet**

**Record Count:** 4

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 592786.98

**Northing (Y):** 3551067.39

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

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

9/29/22 8:39 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# 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>
C	01337	2	1	30	25S	29E		591926	3552642*
<hr/>									
<b>Driller License:</b>	24	<b>Driller Company:</b>		BRININSTOOL, M.D.					
<b>Driller Name:</b>	HOWARD HEMLER								
<b>Drill Start Date:</b>	08/25/1966	<b>Drill Finish Date:</b>		08/30/1966		<b>Plug Date:</b>			
<b>Log File Date:</b>	01/26/1967	<b>PCW Rev Date:</b>				<b>Source:</b>		Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>			
<b>Casing Size:</b>	7.00	<b>Depth Well:</b>		180 feet		<b>Depth Water:</b>		30 feet	
<hr/>									
<b>Water Bearing Stratifications:</b>		<b>Top</b>	<b>Bottom</b>	<b>Description</b>					
		73	93	Sandstone/Gravel/Conglomerate					
		163	172	Sandstone/Gravel/Conglomerate					
<hr/>									
<b>Casing Perforations:</b>		<b>Top</b>	<b>Bottom</b>						
		163	172						

\*UTM location was derived from PLSS - see Help

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


9/29/22 8:40 PM

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)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y		
C	03508 POD1	1	3	3	05	26S	29E	593063	3548361		
x											
Driller License:		1058		Driller Company:		KEY'S DRILLING & PUMP SERVICE					
Driller Name:		KEY, CLINTON									
Drill Start Date:		08/24/2011		Drill Finish Date:		08/24/2011		Plug Date:			
Log File Date:		09/12/2011		PCW Rcv Date:				Source:		Shallow	
Pump Type:		SUBMER		Pipe Discharge Size:				Estimated Yield:		40 GPM	
Casing Size:		6.00		Depth Well:		140 feet		Depth Water:		75 feet	
x											
Water Bearing Stratifications:				Top	Bottom	Description					
				75	76	Shale/Mudstone/Siltstone					
x											
Casing Perforations:				Top	Bottom						
				65	105						
x											

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.



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USGS Water Resources

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Geographic Area:New Mexico

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320532104001701

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

USGS 320532104001701 25S.29E.32.21111

Eddy County, New Mexico  
Latitude 32°05'32", Longitude 104°00'17" NAD27  
Land-surface elevation 2,988 feet above NAVD88  
The depth of the well is 128 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) 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
1949-03-11			D 62610		2871.10	NGVD29	1		Z	
1949-03-11			D 62611		2872.66	NAVD88	1		Z	
1949-03-11			D 72019	115.34			1		Z	
1958-08-19			D 62610		2887.81	NGVD29	1		Z	
1958-08-19			D 62611		2889.37	NAVD88	1		Z	
1958-08-19			D 72019	98.63			1		Z	
1959-03-24			D 62610		2887.84	NGVD29	1		Z	
1959-03-24			D 62611		2889.40	NAVD88	1		Z	
1959-03-24			D 72019	98.60			1		Z	
1978-01-13			D 62610		2891.21	NGVD29	1		Z	
1978-01-13			D 62611		2892.77	NAVD88	1		Z	
1978-01-13			D 72019	95.23			1		Z	
1983-02-01			D 62610		2890.81	NGVD29	1		Z	
1983-02-01			D 62611		2892.37	NAVD88	1		Z	

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
1983-02-01			D	72019	95.63		1	Z		
1987-10-14			D	62610		2889.75	NGVD29	1	Z	
1987-10-14			D	62611		2891.31	NAVD88	1	Z	
1987-10-14			D	72019	96.69		1	Z		
1988-04-06			D	62610		2889.51	NGVD29	1	Z	
1988-04-06			D	62611		2891.07	NAVD88	1	Z	
1988-04-06			D	72019	96.93		1	Z		
1992-11-03			D	62610		2888.31	NGVD29	1	S	
1992-11-03			D	62611		2889.87	NAVD88	1	S	
1992-11-03			D	72019	98.13		1	S		

Explanation

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

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**Title: Groundwater for New Mexico: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/>**



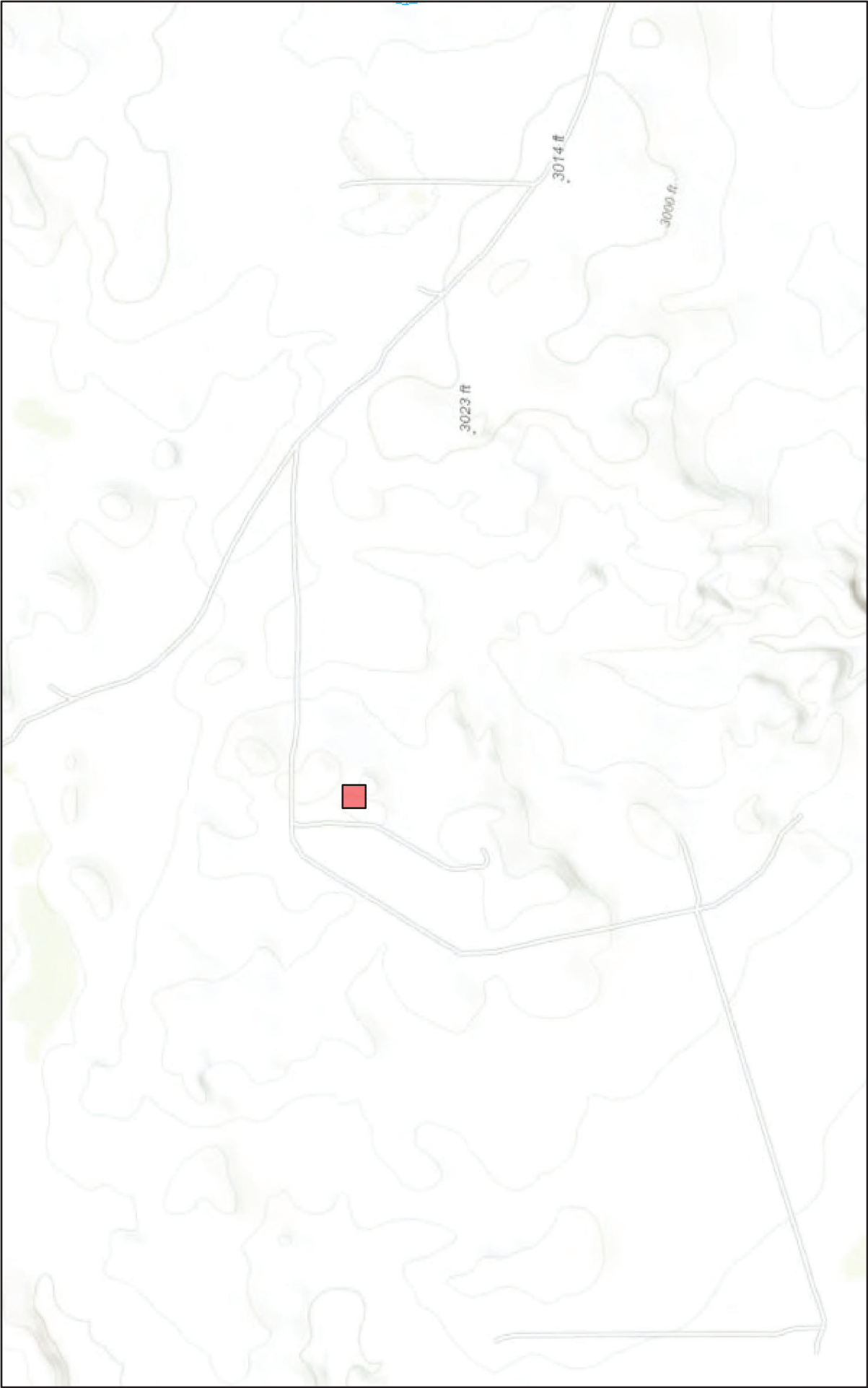
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-09-29 22:43:26 EDT

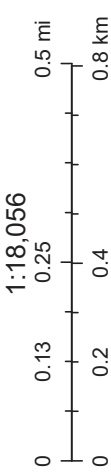
0.27 0.24 nadww01



New Mexico NFHL Data



September 29, 2022



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

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September 24, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: COOPER 31 FEDERAL #001H (7/5/18)

Enclosed are the results of analyses for samples received by the laboratory on 09/19/18 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ SURFACE (H802659-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23	
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77	
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17	
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04	
Total BTEX	<0.300	0.300	09/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	09/24/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	17.1	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/22/2018	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

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:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ 1' (H802659-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23	
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77	
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17	
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04	
Total BTX	<0.300	0.300	09/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/24/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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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:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ 2' (H802659-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/24/2018	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 3' (H802659-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/24/2018	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 4' (H802659-05)**

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	09/24/2018	ND	400	100	400	0.00		

**Sample ID: SP 1 @ 5' (H802659-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/24/2018	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ SURFACE (H802659-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTEx	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30400	16.0	09/24/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 1' (H802659-08)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTX	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	09/24/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 2' (H802659-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	09/24/2018	ND	400	100	400	0.00		

**Sample ID: SP 2 @ 3' (H802659-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	09/24/2018	ND	432	108	400	0.00	QM-07

**Sample ID: SP 2 @ 4' (H802659-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	09/24/2018	ND	432	108	400	0.00		

**Sample ID: SP 2 @ 5' (H802659-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	09/24/2018	ND	432	108	400	0.00		

**Sample ID: SP 2 @ 6' (H802659-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	09/24/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ SURFACE (H802659-14)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTEx	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24400	16.0	09/24/2018	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	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ 1' (H802659-15)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTEX	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	09/24/2018	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	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 96.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.7 % 37.6-147

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**Analytical Results For:**

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 Cliff Brunson  
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 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ 2' (H802659-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/24/2018	ND	432	108	400	0.00	

**Sample ID: SP 3 @ 3' (H802659-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	09/24/2018	ND	432	108	400	0.00		

**Sample ID: SP 3 @ 4' (H802659-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	09/24/2018	ND	432	108	400	0.00	

**Sample ID: SP 3 @ 5' (H802659-19)**

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	09/24/2018	ND	432	108	400	0.00	

**Sample ID: SP 3 @ 6' (H802659-20)**

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	09/24/2018	ND	432	108	400	0.00	

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ SURFACE (H802659-21)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTEx	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	28400	16.0	09/24/2018	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	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ 1' (H802659-22)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTEx	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	09/24/2018	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	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/14/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ 2' (H802659-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	09/24/2018	ND	432	108	400	0.00		

**Sample ID: SP 4 @ 3' (H802659-24)**

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	09/24/2018	ND	432	108	400	0.00		

**Sample ID: SP 4 @ 4' (H802659-25)**

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	09/24/2018	ND	432	108	400	0.00		

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**Analytical Results For:**

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 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/17/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: NORTH @ SURFACE (H802659-26)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTEx	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/24/2018	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	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147

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**Analytical Results For:**

BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/17/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: EAST @ SURFACE (H802659-27)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTX	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/24/2018	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	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 97.3 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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**Analytical Results For:**

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 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/17/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: WEST @ SURFACE (H802659-28)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTX	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/24/2018	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	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

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 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/19/2018	Sampling Date:	09/17/2018
Reported:	09/24/2018	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL #001H (7/5/18)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SOUTH @ SURFACE (H802659-29)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2018	ND	1.88	94.0	2.00	3.23		
Toluene*	<0.050	0.050	09/23/2018	ND	1.98	98.8	2.00	4.77		
Ethylbenzene*	<0.050	0.050	09/23/2018	ND	2.07	103	2.00	6.17		
Total Xylenes*	<0.150	0.150	09/23/2018	ND	6.00	100	6.00	5.04		
Total BTX	<0.300	0.300	09/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/24/2018	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	09/23/2018	ND	187	93.3	200	3.66	
DRO >C10-C28*	<10.0	10.0	09/23/2018	ND	178	88.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	09/23/2018	ND					

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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

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### Notes and Definitions

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

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**RDINAL LABORATORIES**  
101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

**Company Name:** BBC International, Inc.

**Project Manager:** Cliff Brunson

Address: P.O. Box 805

City: Hobbs State: NM Zip: 88241

Phone #: 575-397-6388 Fax #: 575-397-0397

Project #: \_\_\_\_\_  
Project Owner: \_\_\_\_\_  
OK

Project Name: Cooper 31 Federal #001H (7/5/18)

Project Location: Eddy County, NM

Project Name:	Jeff Ornelas
Sampler Name:	

FOR LAB USE ONLY

**Lab I.D.**

659208H

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**PLEASE NOTE: Liability**

analyses. All claims include

**Belinquinised B**

111

✓ 95%

Relinquished E

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Delivered By

**Sampler - UPS**

**Source:** *Author's calculations.*

† Cardina

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Page 20 of 21

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**ARDINAL LABORATORIES**  
101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

BILL TO		ANALYSIS REQUEST									
Company Name: BBC International, Inc.		P.O. #:									
Project Manager: Cliff Brunson		Company:									
Address: P.O. Box 805		Attn: <i>Hobbs</i>									
City: Hobbs		State: NM		Zip: 88241							
Phone #: 575-397-6388		Fax #: 575-397-0397									
Project #:		Project Owner: <i>COB</i>									
Project Name: Cooper 31 Federal #001H (7/5/18)		City:									
Project Location: Eddy County, NM		State:									
Sampler Name: Jeff Ornelas		Phone #:									
Fax #:											
Lab I.D.	Sample I.D.	MATRIX	PRESERV	DATE	TIME						
11	SP2 @ 4'	GROUNDWATER	✓	9/14/18	12:12 PM						
12	SP2 @ 5'	GROUNDWATER	✓	9/14/18	12:50 PM						
13	SP2 @ 6'	GROUNDWATER	✓	9/14/18	1:11 PM						
14	SP3 @ SURFACE	GROUNDWATER	✓	9/14/18	1:22 PM						
15	SP3 @ 1'	GROUNDWATER	✓	9/14/18	1:30 PM						
16	SP3 @ 2'	GROUNDWATER	✓	9/14/18	1:40 PM						
17	SP3 @ 3'	GROUNDWATER	✓	9/14/18	1:50 PM						
18	SP3 @ 4'	GROUNDWATER	✓	9/14/18	2:01 PM						
19	SP3 @ 5'	GROUNDWATER	✓	9/14/18	2:15 PM						
20	SP3 @ 6'	GROUNDWATER	✓	9/14/18	2:22 PM						

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>9/17/18</i>	Time: <i>5:00 PM</i>	Received By: <i>Debi Jensen</i>	Date: <i>9/19/18</i>	Time: <i>3:30 PM</i>
Delivered By: (Circle One)	Sample Condition	Checked By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: <input type="checkbox"/> Yes <input type="checkbox"/> No	
REMARKS:					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476







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

---

July 28, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: COOPER 31 FEDERAL 001H ( 7.15.18 )

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 10:17.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SP - 2 ( 6.5' ) (H233943-01)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEx	<0.300	0.300	07/27/2023	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	07/27/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SP - 2 ( 7' ) (H233943-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	<16.0	16.0	07/27/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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  
 CONNER MOEHRING  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SP - 2 ( 8' ) (H233943-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	
Chloride	<16.0	16.0	07/27/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

Work Order No: H23394A3

Page 6 of 6

Work Order Comments	
Program: UST/PT <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <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.	

*Released to Imaging: 8/8/2023 1:31:53 PM*





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

---

July 28, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: COOPER 31 FEDERAL 001H ( 7.15.18 )

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 10:17.

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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 1 ( 1' ) (H233940-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.15	108	2.00	0.182	
Toluene*	<0.050	0.050	07/28/2023	ND	2.12	106	2.00	0.252	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.03	101	2.00	0.389	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.08	101	6.00	0.0457	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	464	16.0	07/27/2023	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	07/27/2023	ND	188	93.9	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	199	99.6	200	0.197	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 2 ( 1' ) (H233940-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.15	108	2.00	0.182		
Toluene*	<0.050	0.050	07/27/2023	ND	2.12	106	2.00	0.252		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	0.389		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.08	101	6.00	0.0457		
Total BTEX	<0.300	0.300	07/27/2023	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	496	16.0	07/27/2023	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	07/27/2023	ND	188	93.9	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	199	99.6	200	0.197	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 3 ( 1' ) (H233940-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.15	108	2.00	0.182	
Toluene*	<0.050	0.050	07/27/2023	ND	2.12	106	2.00	0.252	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	0.389	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.08	101	6.00	0.0457	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	432	16.0	07/27/2023	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	07/27/2023	ND	188	93.9	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	199	99.6	200	0.197	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 4 ( 1' ) (H233940-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.15	108	2.00	0.182		
Toluene*	<0.050	0.050	07/27/2023	ND	2.12	106	2.00	0.252		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.03	101	2.00	0.389		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.08	101	6.00	0.0457		
Total BTEX	<0.300	0.300	07/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	528	16.0	07/27/2023	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	07/27/2023	ND	188	93.9	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	199	99.6	200	0.197	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 5 ( 1' ) (H233940-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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
Chloride	512	16.0	07/27/2023	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	07/27/2023	ND	188	93.9	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	199	99.6	200	0.197	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 6 ( 1' ) (H233940-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTX	<0.300	0.300	07/27/2023	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	464	16.0	07/27/2023	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	07/27/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 7 ( 1' ) (H233940-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEx	<0.300	0.300	07/27/2023	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	512	16.0	07/27/2023	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	07/27/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 8 ( 1' ) (H233940-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEx	<0.300	0.300	07/27/2023	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	480	16.0	07/27/2023	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	07/27/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 114 % 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  
 CONNER MOEHRING  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 9 ( 1' ) (H233940-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	512	16.0	07/27/2023	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	07/27/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 10 ( 1' ) (H233940-10)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50		
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20		
Total BTEX	<0.300	0.300	07/27/2023	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	544	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 11 ( 1' ) (H233940-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50		
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20		
Total BTEX	<0.300	0.300	07/27/2023	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	992	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
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 Fax To:

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 12 ( 1' ) (H233940-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50		
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20		
Total BTEX	<0.300	0.300	07/27/2023	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	1010	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	15.2	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 13 ( 1' ) (H233940-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	1360	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 14 ( 1' ) (H233940-14)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50		
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20		
Total BTEx	<0.300	0.300	07/27/2023	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	1360	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	34.8	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	17.2	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 15 ( 1' ) (H233940-15)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1470	16.0	07/27/2023	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	12.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 16 ( 1' ) (H233940-16)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	1410	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	10.3	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 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  
 CONNER MOEHRING  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 17 ( 1' ) (H233940-17)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	1410	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	19.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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  
 CONNER MOEHRING  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 18 ( 1' ) (H233940-18)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	1580	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 19 ( 1' ) (H233940-19)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50		
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20		
Total BTEX	<0.300	0.300	07/27/2023	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	1390	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	11.5	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 20 ( 1' ) (H233940-20)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50		
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20		
Total BTEX	<0.300	0.300	07/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1420	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	13.5	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	10.5	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 21 ( 1' ) (H233940-21)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	480	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 22 ( 1' ) (H233940-22)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50		
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20		
Total BTEX	<0.300	0.300	07/27/2023	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	544	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 23 ( 1' ) (H233940-23)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	544	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 24 ( 1' ) (H233940-24)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	4.50	
Toluene*	<0.050	0.050	07/27/2023	ND	1.99	99.7	2.00	4.37	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.06	103	2.00	5.38	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.18	103	6.00	5.20	
Total BTEX	<0.300	0.300	07/27/2023	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	496	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: CS - 25 ( 1' ) (H233940-25)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	
Chloride	512	16.0	07/27/2023	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	07/28/2023	ND	191	95.7	200	1.93	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SW - 1 ( 1' ) (H233940-26)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	07/27/2023	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	07/27/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SW - 2 ( 1' ) (H233940-27)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	07/27/2023	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	07/27/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SW - 3 ( 1' ) (H233940-28)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	07/27/2023	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	07/27/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SW - 4 ( 1' ) (H233940-29)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	07/27/2023	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	07/27/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SW - 5 ( 1' ) (H233940-30)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	07/27/2023	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	07/27/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SW - 6 ( 1' ) (H233940-31)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	<16.0	16.0	07/27/2023	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	07/27/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/27/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SW - 7 ( 1' ) (H233940-32)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	07/27/2023	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	07/28/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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**Analytical Results For:**

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

Received:	07/27/2023	Sampling Date:	07/26/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	COOPER 31 FEDERAL 001H ( 7.15.18 )	Sampling Condition:	Cool & Intact
Project Number:	2078	Sample Received By:	Shari Cisneros
Project Location:	EDDY CO NM		

**Sample ID: SW - 8 ( 1' ) (H233940-33)**

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	07/27/2023	ND	2.01	100	2.00	2.04		
Toluene*	<0.050	0.050	07/27/2023	ND	1.90	95.0	2.00	10.1		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	1.97	98.4	2.00	3.66		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	5.84	97.4	6.00	4.37		
Total BTEX	<0.300	0.300	07/27/2023	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	07/27/2023	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	07/28/2023	ND	194	96.9	200	2.56	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	197	98.6	200	5.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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

Notes and Definitions

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

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\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Pg 1 of 5

Work Order No: H233940

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

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

Project Name:	Cooper 31 Federal 001H (7.15.18)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2078																None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Eddy County, New Mexico	Due Date:	24 Hrs														Cool: Cool	MeOH: Me	
Sampler's Name:	FV																HCL: HC	HNO <sub>3</sub> : HN	
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:																	
Total Containers:		Corrected Temperature:																	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH										Sample Comments		
1 CS-1 (1')	7/26/2023		X		C	1	X	X	X										
2 CS-2 (1')	7/26/2023		X		C	1	X	X	X										
3 CS-3 (1')	7/26/2023		X		C	1	X	X	X										
4 CS-4 (1')	7/26/2023		X		C	1	X	X	X										
5 CS-5 (1')	7/26/2023		X		C	1	X	X	X										
6 CS-6 (1')	7/26/2023		X		C	1	X	X	X										
7 CS-7 (1')	7/26/2023		X		C	1	X	X	X										
8 CS-8 (1')	7/26/2023		X		C	1	X	X	X										
9 CS-9 (1')	7/26/2023		X		C	1	X	X	X										
10 CS-10 (1')	7/26/2023		X		C	1	X	X	X										

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com, Conner Moehring / Cmoehring@carmonaresources.com and Devin Dominguez / Ddominguez@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	7-27-23	<i>[Signature]</i>	7/27/23 10:17



Chain of Custody

Work Order No: H2339410

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Other	
State of Project:	
Reporting Level I <input type="checkbox"/> 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:	

Project Name:	Cooper 31 Federal 001H (7.15.18)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number:	2078																None: NO	DI Water: H <sub>2</sub> O
Project Location:	Eddy County, New Mexico	Due Date:	24 Hrs														Cool: Cool	MeOH: Me
Sampler's Name:	FV																HCL: HC	HNO <sub>3</sub> : HN
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Correction Factor:																
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Temperature Reading:	-39°C															
Total Containers:		Corrected Temperature:																

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH												Sample Comments
11 CS-11 (1')	7/26/2023		X		C	1	X	X	X										
12 CS-12 (1')	7/26/2023		X		C	1	X	X	X										
13 CS-13 (1')	7/26/2023		X		C	1	X	X	X										
14 CS-14 (1')	7/26/2023		X		C	1	X	X	X										
15 CS-15 (1')	7/26/2023		X		C	1	X	X	X										
16 CS-16 (1')	7/26/2023		X		C	1	X	X	X										
17 CS-17 (1')	7/26/2023		X		C	1	X	X	X										
18 CS-18 (1')	7/26/2023		X		C	1	X	X	X										
19 CS-19 (1')	7/26/2023		X		C	1	X	X	X										
20 CS-20 (1')	7/26/2023		X		C	1	X	X	X										
Comments: Email to Mike Carmona / <a href="mailto:Mike.Carmona@caltrans.ca.gov">Mike.Carmona@caltrans.ca.gov</a>																			

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>Conner Moehring</u>	7-27-23	<u>Devin Dominguez</u>	7/27/23 10:17



Chain of Custody

Work Order No: H23394D

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
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:	Cooper 31 Federal 001H (7.15.18)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Due Date:	24 Hrs	Pres. Code		ANALYSIS REQUEST												Preservative Codes	
Project Number:	2078																None: NO	DI Water: H <sub>2</sub> O			
Project Location:	Eddy County, New Mexico																Cool: Cool	MeOH: Me			
Sampler's Name:	FV																HCL: HC	HNO <sub>3</sub> : HN			
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters											H <sub>3</sub> PO <sub>4</sub> : HP				
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:				BTEX 8021B											NaHSO <sub>4</sub> : NABIS				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Correction Factor:				TPH 8015M ( GRO + DRO + MRO)											Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub>				
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Temperature Reading:				Chloride 4500											Zn Acetate+NaOH: Zn				
Total Containers:		Corrected Temperature:															NaOH+Ascorbic Acid: SAPC				
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
21	CS-21 (1')	7/26/2023		X		C	1	X	X	X											
22	CS-22 (1')	7/26/2023		X		C	1	X	X	X											
23	CS-23 (1')	7/26/2023		X		C	1	X	X	X											
24	CS-24 (1')	7/26/2023		X		C	1	X	X	X											
25	CS-25 (1')	7/26/2023		X		C	1	X	X	X											
26	SW-1 (1')	7/26/2023		X		C	1	X	X	X											
27	SW-2 (1')	7/26/2023		X		C	1	X	X	X											
28	SW-3 (1')	7/26/2023		X		C	1	X	X	X											
29	SW-4 (1')	7/26/2023		X		C	1	X	X	X											
30	SW-5 (1')	7/26/2023		X		C	1	X	X	X											

Comments: Email to Mike Carmona / mcarmona@carmonarresources.com, Conner Moehring / Cmoehring@carmonarresources.com and Devin Dominguez / Ddominguez@carmonarresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Conner Moehring</i>	7-27-23	<i>Shawn Linder</i>	7/27/23 10:17



Work Order No: 4233940

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Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> <input type="checkbox"/> perfund <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:	

[illegible]

\*\*\*\*\*. Please to make Carmona / [WCarmona@carmonaresources.com](mailto:WCarmona@carmonaresources.com), Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com) and Devin Dominguez / [Ddominguez@carmonaresources.com](mailto:Ddominguez@carmonaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Shelene Jones</i>	7-27-23	<i>Mari Cuevas</i>	7/27/23 10:17

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

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

CONDITIONS  
  
Action 249407

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 249407
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Site will need to meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment.	8/8/2023