



SITE INFORMATION

Closure Report
Stratocaster 20 Federal Com 004H (04.27.23)
Incident #: NAPP2314251662
Lea County, New Mexico
Unit I Sec 20 T23S R34E
32.2876°, -103.4859°

Crude Oil Release
Point of Release: Flare spray due to free water knock out overflow
Release Date: 04.27.23
Volume Released: 0.35 Barrels of Crude Oil
Volume Recovered: 0 Barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
COG Operating, LLC
600 W Illinois Ave
Midland, Texas 79701

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



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August 11, 2023

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

**Re: Closure Report
Stratocaster 20 Federal 004H (04.27.23)
Concho Operating, LLC
Site Location: Unit I, S20, T23S, R34E
(Lat 32.2876°, Long -103.4859°)
Lea County, New Mexico**

To whom it may concern:

On behalf of Concho Operating, LLC (COG), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Stratocaster 20 Federal 004H. The site is located at 32.2876, -103.4859 within Unit I, S20, T23S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on April 27, 2023, due to a free water knockout overflowing, causing oil to be sprayed out of the flare. It resulted in approximately zero point three five (0.35) barrels of crude oil and zero (0) barrels of crude oil recovered. The impacted area occurred on the pad and misted into the pasture, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest well is approximately 1.60 miles northeast of the site in S16, T23S, R34E and was drilled in 2018. The well has a reported depth to groundwater of 200 feet below the ground surface (ft bgs). A copy of the associated point of diversion is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

4.0 Site Assessment Activities

Initial Assessment

On May 23, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and four (4) horizontal sample points (H-1 through H-4) were installed to total depths ranging from surface to 0.5' 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 Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum

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Midland TX, 79701
432.813.1992



hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

See Table 1 for the analytical results.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on August 1, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of twenty-seven (27) confirmation floor samples were collected (CS-1 through CS-27), and ten (10) sidewall samples (SW-1 through SW-10) 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 4.

The areas of CS-12, CS-20, & CS-22 showed elevated TPH concentrations of 120 mg/kg, 119 mg/kg, & 177 mg/kg, respectively. Those areas were excavated an additional 0.5' to ensure the proper removal of the contaminated soils, and confirmation samples were recollected.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 160 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

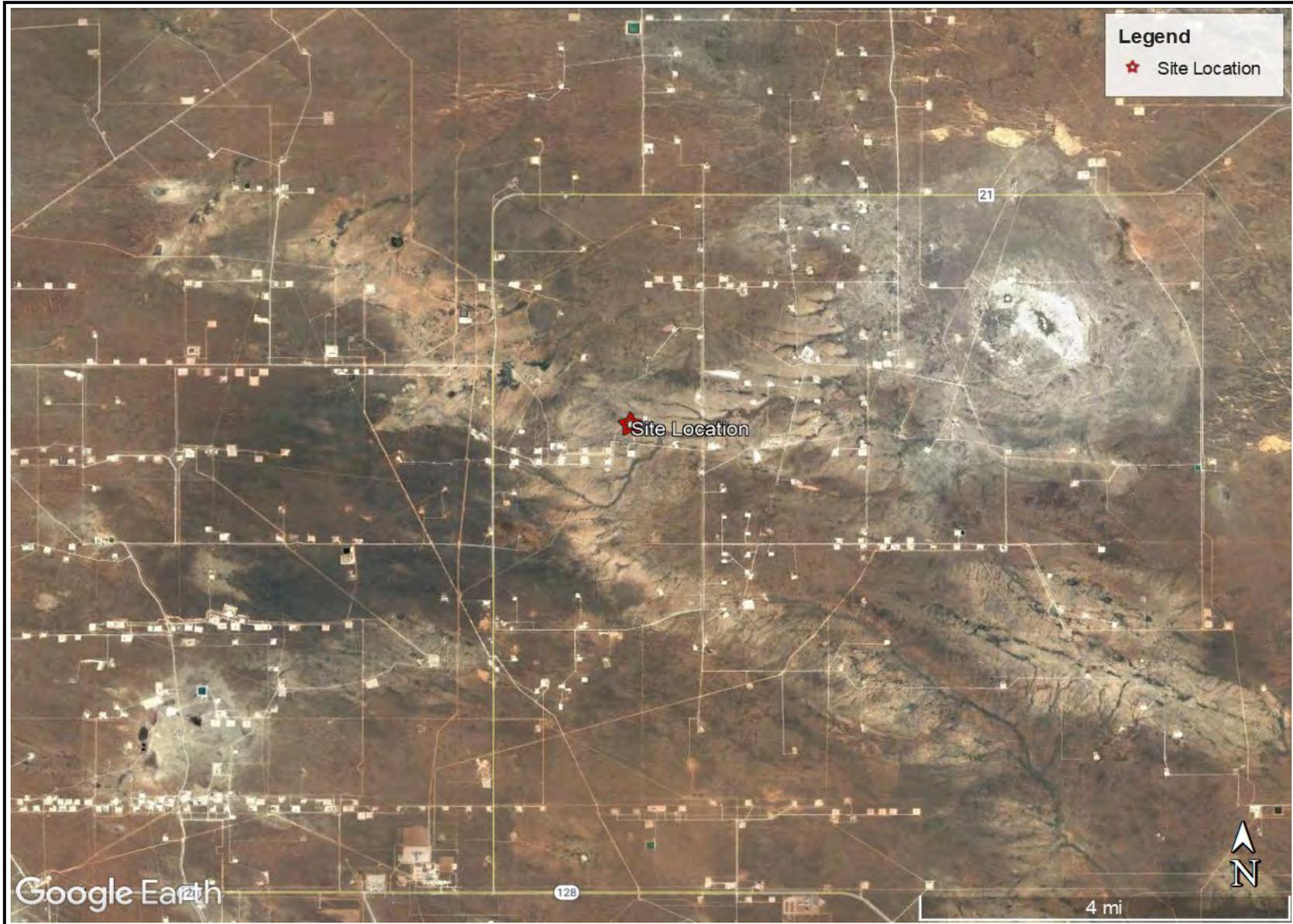
Mike Carmona
Environmental Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES

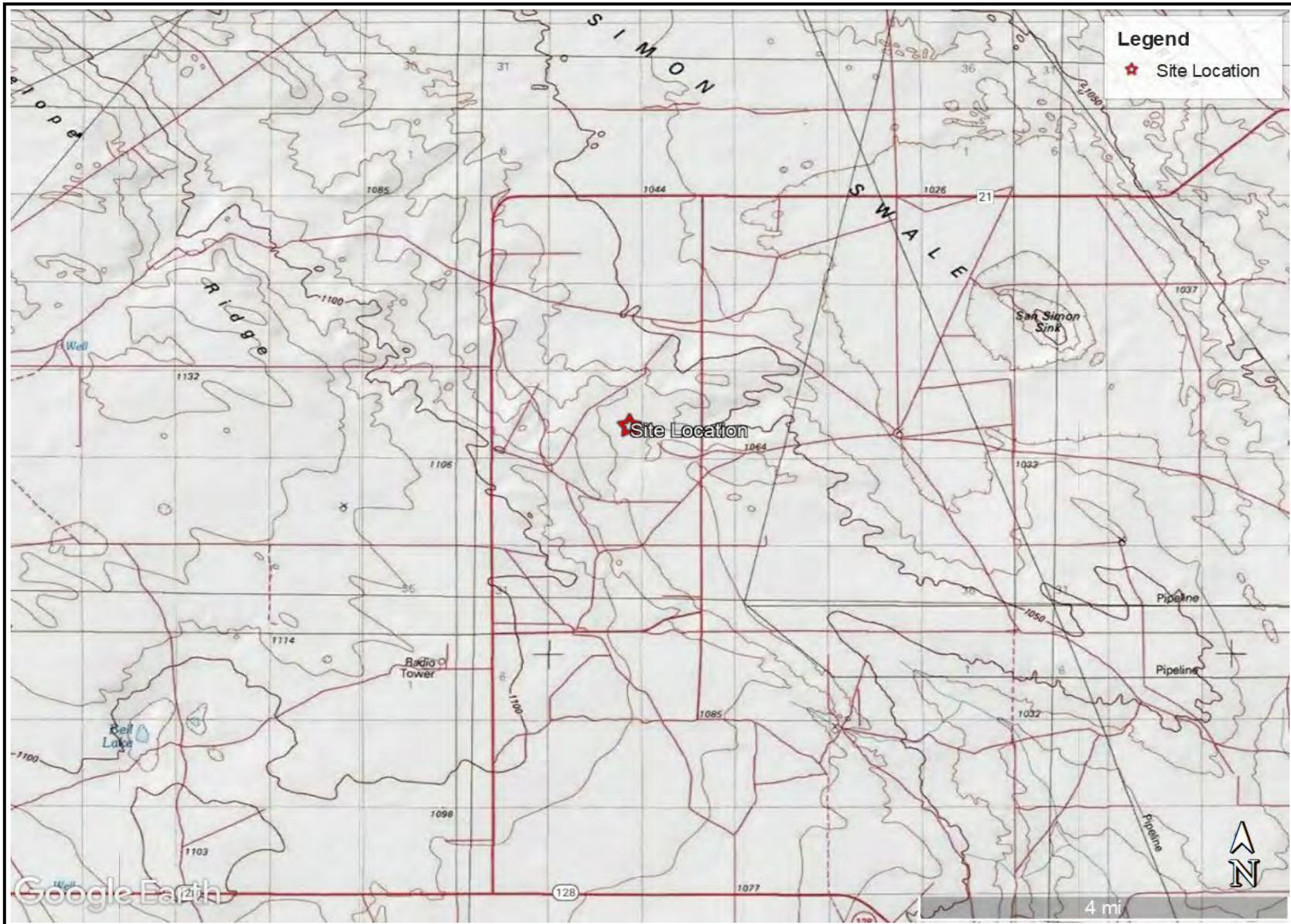




OVERVIEW MAP
COG OPERATING, LLC
STRATOCASTER 20 FEDERAL 004H (4.27.23)
LEA COUNTY, NEW MEXICO
32.2876°, -103.4859°



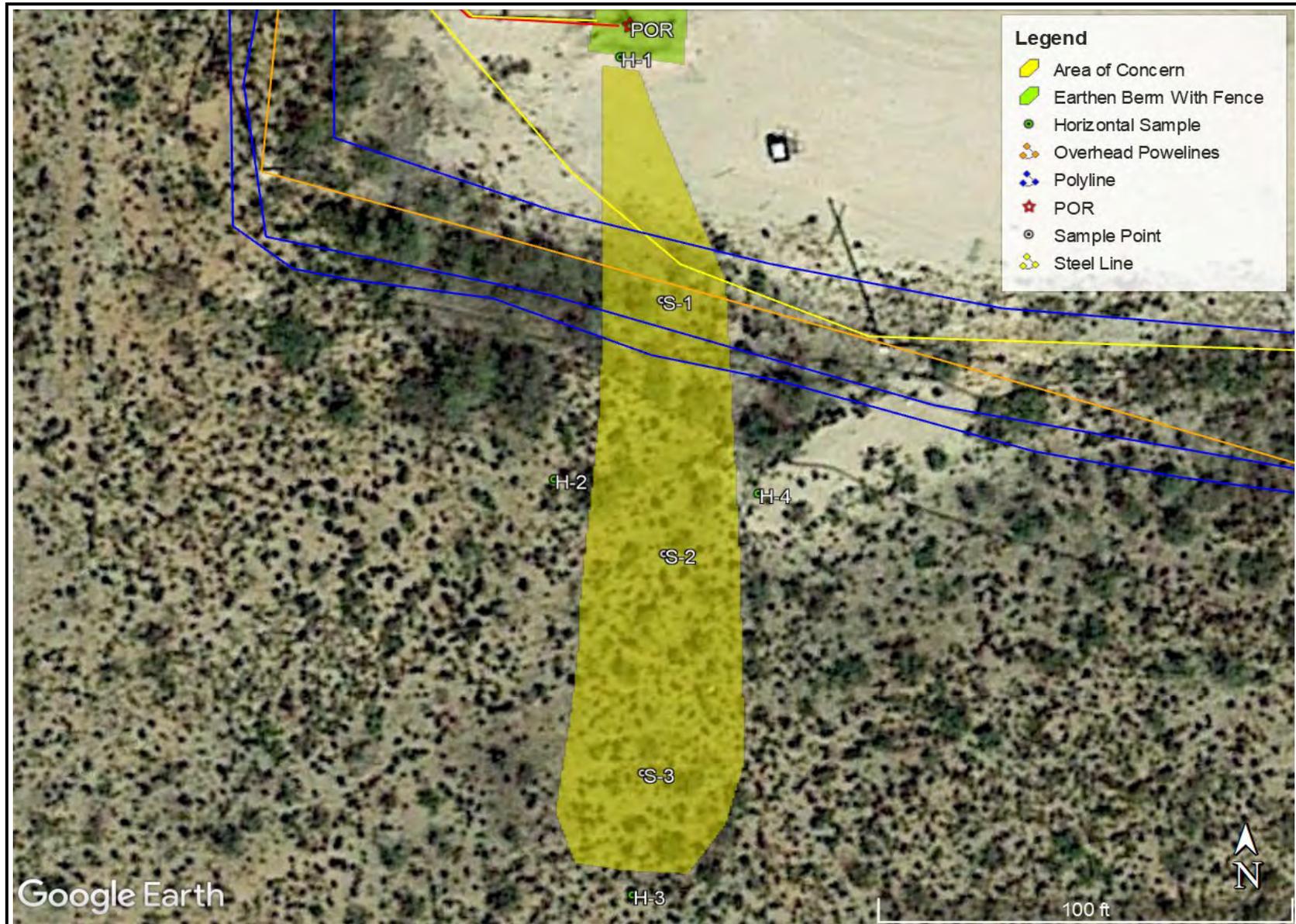
FIGURE 1



TOPOGRAPHIC MAP
COG OPERATING, LLC
STRATOCASTER 20 FEDERAL 004H (4.27.23)
LEA COUNTY, NEW MEXICO
32.2876°, -103.4859°



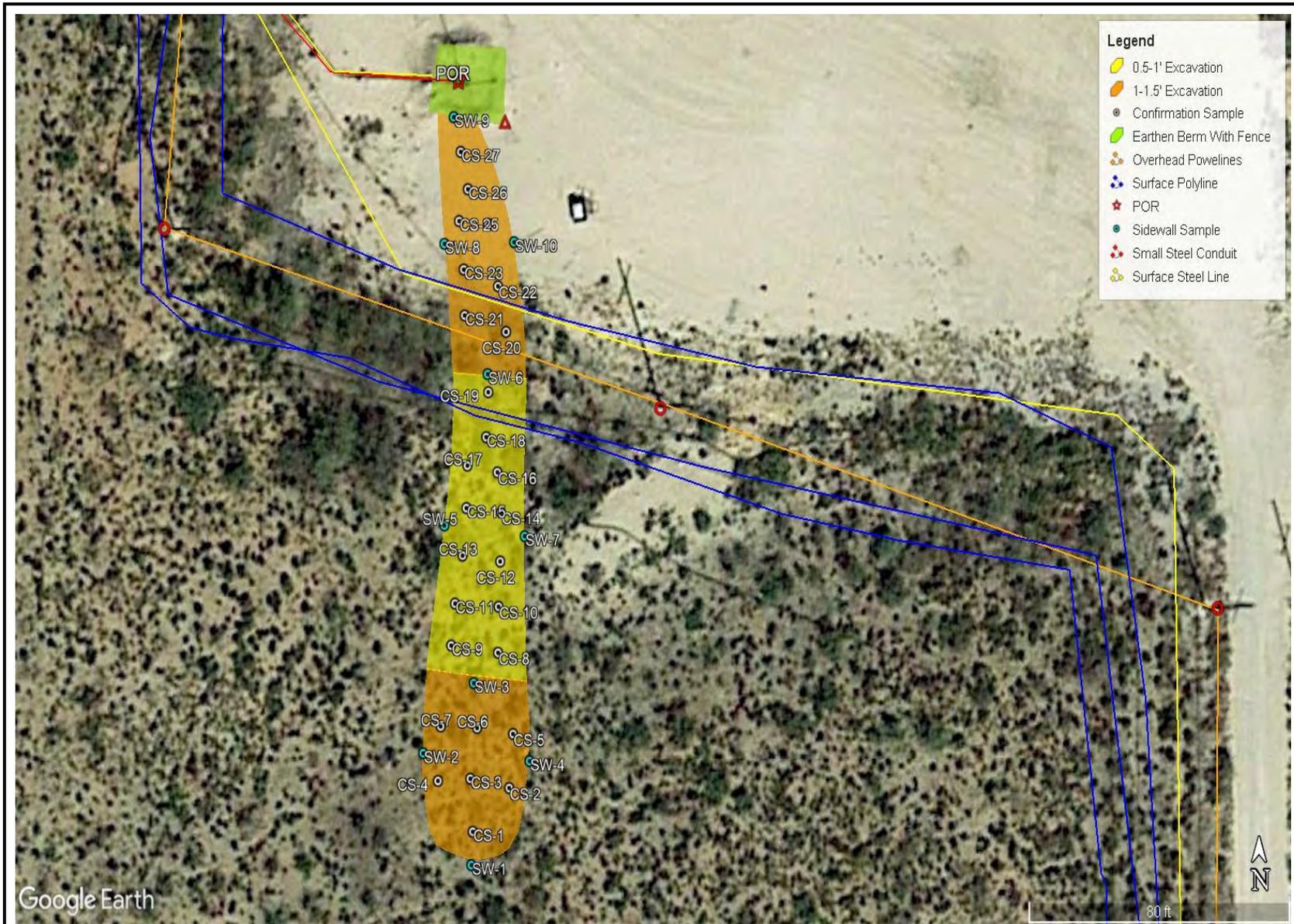
FIGURE 2



SAMPLE LOCATION MAP
COG OPERATING, LLC
STRATOCASTER 20 FEDERAL 004H (4.27.23)
LEA COUNTY, NEW MEXICO
32.2876°, -103.4859°



FIGURE 3



EXCAVATION DEPTH MAP
COG OPERATING, LLC
STRATOCASTER 20 FEDERAL 004H (4.27.23)
LEA COUNTY, NEW MEXICO
32.2876°, -103.4859°



FIGURE 4

APPENDIX A

CARMONA RESOURCES



**Table 1
COG Operating
Stratocaster 20 Federal 004H (4.27.23)
Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	5/23/2023	0-0.25	<49.9	841	170	1,010	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	59.9
	"	0.5	<49.8	332	79.1	411	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	47.0
S-2	5/23/2023	0-0.25	<49.8	150	<49.8	150	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	41.8
	"	0.5	<49.9	100	<49.9	100	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	38.6
S-3	5/23/2023	0-0.25	<49.9	246	51.3	297	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	47.0
	"	0.5	<50.0	178	<50.0	178	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	45.3
H-1	5/23/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	40.4
H-2	5/23/2023	0-0.7	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	36.6
H-3	5/23/2023	0-0.9	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	47.1
H-4	5/23/2023	0-0.11	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	37.2
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Soil Sample

(H) Horizontal Sample

Removed

Table 2
COG Operating
Stratocaster 20 Federal 004H (4.27.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-2	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-3	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-4	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-5	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-6	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-7	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-8	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-9	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-10	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-11	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-12	8/7/2023	0.5	<10.0	86.9	32.7	120	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	8/8/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-13	8/7/2023	0.5	<10.0	12.1	<10.0	12.1	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-14	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-15	8/7/2023	0.5	<10.0	19.2	<10.0	19.2	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-16	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-17	8/7/2023	0.5	<10.0	39.5	23.0	62.5	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-18	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-19	8/7/2023	0.5	<10.0	17.1	<10.0	17.1	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-20	8/7/2023	1.0	<10.0	82.3	36.6	119	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	8/8/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-21	8/7/2023	1.0	<10.0	20.4	10.3	30.7	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-22	8/7/2023	1.0	<10.0	109	68.0	177	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	8/8/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-23	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-24	8/7/2023	1.0	<10.0	18.3	<10.0	18.3	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-25	8/7/2023	1.0	<10.0	14.2	<10.0	14.2	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-26	8/7/2023	1.0	<10.0	16.4	<10.0	16.4	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-27	8/7/2023	1.0	<10.0	22.9	<10.0	22.9	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC
 mg/kg - milligram per kilogram
 TPH - Total Petroleum Hydrocarbons
 ft - feet
 (CS) Confirmation Sample
 Removed

Table 2
COG Operating
Stratocaster 20 Federal 004H (4.27.23)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
SW-1	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-3	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-5	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-7	8/7/2023	0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-8	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-9	8/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-10	8/7/2023	1.0	<10.0	41.0	18.5	59.5	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<i>Regulatory Criteria^A</i>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Stratocaster 20 Federal 004H
(04.27.23)

County: Lea County, New Mexico

Description:
View Southwest, area of CS-1 through CS-7.



Photograph No. 2

Facility: Stratocaster 20 Federal 004H
(04.27.23)

County: Lea County, New Mexico

Description:
View Northwest, area of CS-8 and CS-11.

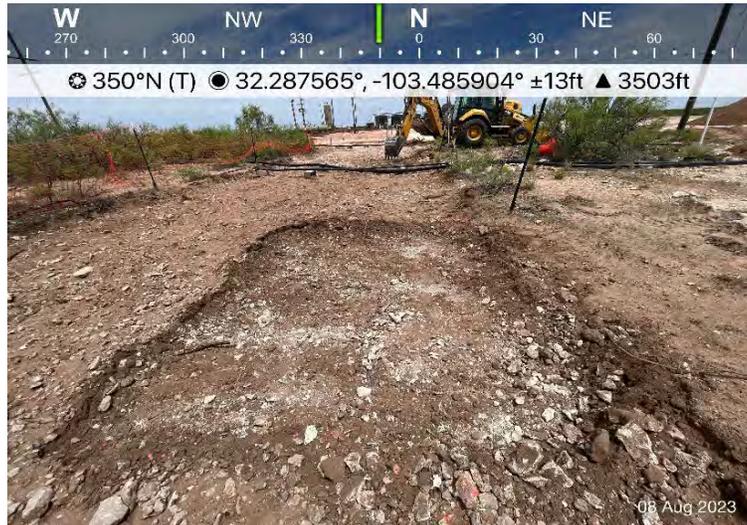


Photograph No. 3

Facility: Stratocaster 20 Federal 004H
(04.27.23)

County: Lea County, New Mexico

Description:
View North, area of CS-12 through CS-17.



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 4

Facility: Stratocaster 20 Federal 004H
(04.27.23)

County: Lea County, New Mexico

Description:
View Southwest, area of CS-20 through CS-22.



Photograph No. 5

Facility: Stratocaster 20 Federal 004H
(04.27.23)

County: Lea County, New Mexico

Description:
View South, area of CS-20 through CS-26.



Photograph No. 6

Facility: Stratocaster 20 Federal 004H
(04.27.23)

County: Lea County, New Mexico

Description:
View Northwest, area of CS-18 through CS-26.



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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name _____ Title: _____ Signature: <u></u> _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>05/23/2023</u>

L48 Spill Volume Estimate Form - Fill In Gray Cells

Received by OCD: 8/15/2023 8:53:46 AM

Facility Name & Well Number(s):				STRATOCASTER 20 FED 4H BATTERY		Release Discovery Date & Time:		4-27-23 @ 12:50AM	
Provide any known details about the event:				TEST KO WATER DUMP WAS WASHED OUT SO I SWITCHED PRODUCTION TO THE PRODUCTION KO. I SET THE OIL DUMP AND WATCHED IT DUMP TWICE AND LEFT IT. NIGHT OPERATER DISCOVERED IT AND CALLED ME. I HAD HIM SHUT DOWN PUMPING UNITS AND SHUT IN BOTH WELLS TO BATTERY.					
				Recovered Volume (bbl.) (if available, not included in volume calculations)	Method of Determination (dropdown)	Release Type (dropdown):		> 1/2" of Rain in Last 24 Hours (dropdown):	% Rainwater Recovered (not included in volume calculations, informational):
BU:	Permian	Asset Area:	DBE - Asset Avg.	0	Field Measurement	Oil		No	0%
Known Volume (dropdown):				No					
Known Area (dropdown):				No					

Spill Calculation - Subsurface Spill - Rectangle

Remediation Recommendation

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³)	Current Rule of Thumb - RMR Handover Volume, (yd ³)
Rectangle A	200.0	50.0	0.0	Off-Pad	15.02%	2.31	0.35	0.60	750
Rectangle B				On-Pad	10.50%	0.00	0.00	0.00	
Rectangle C				On-Pad	10.50%	0.00	0.00	0.00	
Rectangle D						0.00	0.00	0.00	
Rectangle E						0.00	0.00	0.00	
Rectangle F						0.00	0.00	0.00	
Rectangle G						0.00	0.00	0.00	
Rectangle H						0.00	0.00	0.00	
Rectangle I						0.00	0.00	0.00	
Rectangle J						0.00	0.00	0.00	
Total Subsurface Volume Released:							0.35	0.60	BU

Released to Imaging: 11/29/2023 2:50:02 PM

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 219424

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 219424
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	5/23/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jacob Laird Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 8/15/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____
 Signature: Jacob Laird Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 8/15/2023

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: Nelson Velez Date: 11/29/2023
 Printed Name: Nelson Velez Title: Environmental Specialist - Adv

From: Wells, Shelly, EMNRD
Sent: Tuesday, August 1, 2023 4:57 PM
To: Conner Moehring
Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] COG - Stratocaster 20 Federal 004H (04.27.23) - NAPP2314251662 - Sampling Notification

Hi Connor,

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

Thank you,

Shelly

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

From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Tuesday, August 1, 2023 3:30 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Devin Dominguez <Ddominguez@carmonaresources.com>; Laird, Jacob <Jacob.Laird@conocophillips.com>
Subject: [EXTERNAL] COG - Stratocaster 20 Federal 004H (04.27.23) - NAPP2314251662 - Sampling Notification

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

Good Afternoon,

This email serves as a notification for confirmation sampling on the Stratocaster 20 Federal 004H (04.27.23). Sampling is scheduled to begin on Monday, August 7th, around 8:00 a.m. Mountain Time. Carmona Resources personnel will be on-site to collect the confirmation samples.

Incident No. NAPP2314251662

Please call if you have any questions or comments.

Conner R. Moehring
310 West Wall Street, Suite 500
Midland Texas, 79701
M: 432-813-6823
Cmoehring@carmonaresources.com



APPENDIX D

CARMONA RESOURCES



Nearest water well

COG Operating

Legend

- 0.50 Mile Radius
- 1.60 Miles
- 1.66 Miles
- 1.80 Miles
- 1.82 Miles
- NMSEO Water Well
- Stratocaster 20 Federal Com 004H (4.27.23)

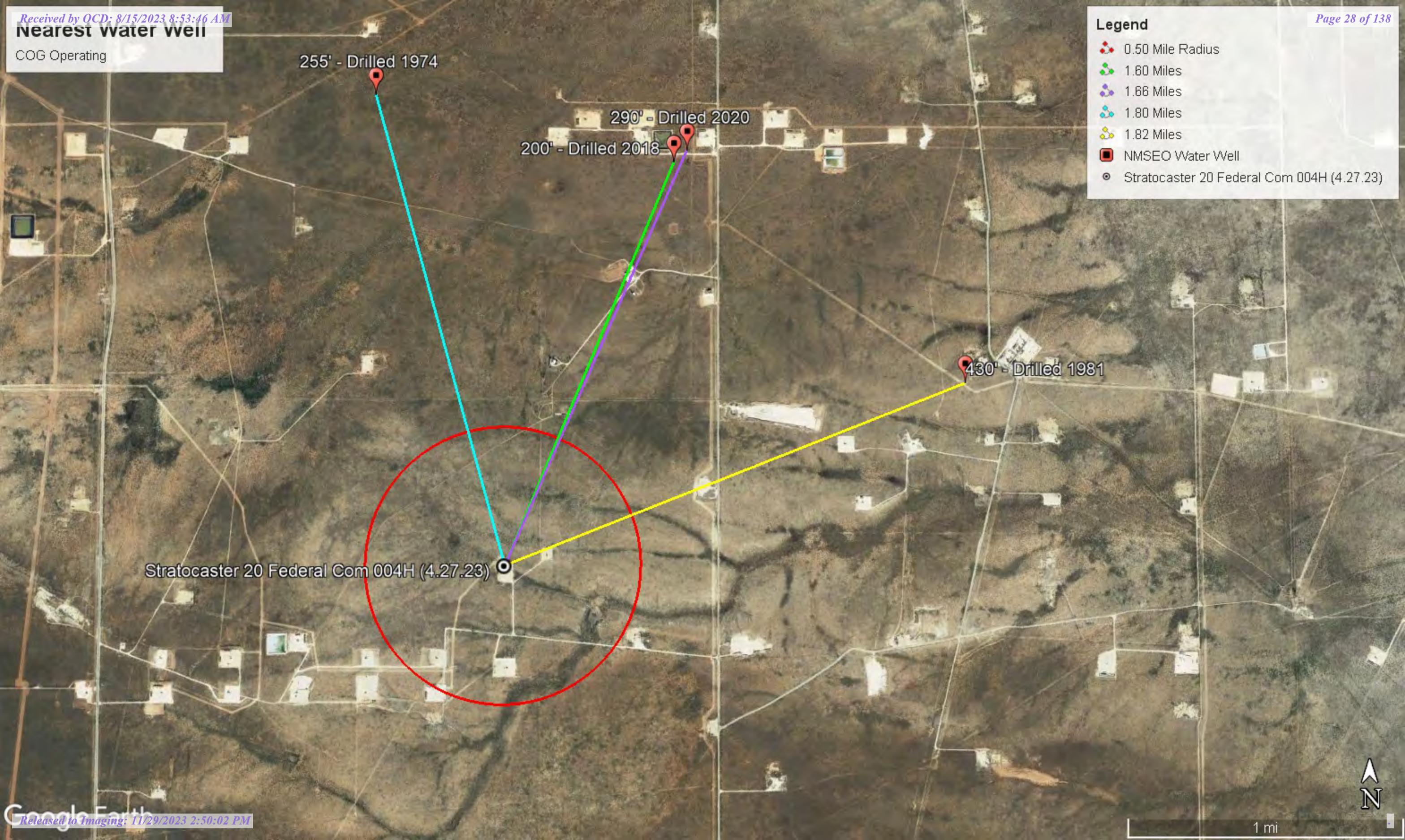
255' - Drilled 1974

290' - Drilled 2020

200' - Drilled 2018

430' - Drilled 1981

Stratocaster 20 Federal Com 004H (4.27.23)



Low Karst

COG Operating

Legend

-  Low
-  Stratocaster 20 Federal Com 004H (4.27.23)

Stratocaster 20 Federal Com 004H (4.27.23) 






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
C 04667 POD1	CUB	LE		3	4	3	20	23S	34E	641770	3572915	969			
CP 01258 POD3	CP	LE		1	4	3	22	23S	34E	644938	3573097	2370	25		
CP 01258 POD2	CP	LE		1	4	3	22	23S	34E	644941	3572883	2413	65		
CP 01258 POD1	CP	LE		1	4	3	22	23S	34E	645015	3573221	2432	25		
CP 01730 POD1	CP	LE		2	2	1	16	23S	34E	643549	3575824	2577	594	200	394
CP 01760 POD1	CP	LE		3	1	2	16	23S	34E	643627	3575897	2674	767	290	477
CP 00556 POD1	CP	LE		4	4	3	08	23S	34E	641762	3576206	2895	497	255	242
CP 00637	CP	LE		3	3	4	15	23S	34E	645293	3574541*	2920	430	430	0
CP 00618	CP	LE		1	2	4	22	23S	34E	645713	3573539*	3123	428	295	133
C 04353 POD1	CUB	ED		4	2	2	24	23S	33E	639474	3574098	3187	603	330	273
C 03620 POD1	CUB	LE		1	4	3	32	23S	34E	641790	3569941	3581	480	130	350
CP 01886 POD1	CP	LE		4	1	4	07	23S	34E	640646	3576545	3671			
CP 01785 POD1	CP	LE		4	1	3	14	23S	34E	646203	3575003	3939	488	245	243
CP 00580	CP	LE		3	4	3	23	23S	34E	646524	3572948*	3962	220		
C 04282 POD1	C	LE		1	2	1	05	24S	34E	641662	3569541	3999	574	390	184
CP 01120 POD1	CP	LE		2	3	3	14	23S	34E	646366	3574753	3999	397	318	79

Average Depth to Water: **288 feet**
 Minimum Depth: **130 feet**
 Maximum Depth: **430 feet**

Record Count: 16

UTMNAD83 Radius Search (in meters):

Easting (X): 642591

Northing (Y): 3573432

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.



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
NA	CP 01730 POD1	2	2	1	16	23S	34E	643549	3575824

Driller License: 1706	Driller Company: ELITE DRILLERS CORPORATION	
Driller Name: WALLACE, BRYCE J.		
Drill Start Date: 10/31/2018	Drill Finish Date: 11/05/2018	Plug Date:
Log File Date: 12/13/2018	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 320 GPM
Casing Size: 7.60	Depth Well: 594 feet	Depth Water: 200 feet

Water Bearing Stratifications:	Top	Bottom	Description
	290	320	Sandstone/Gravel/Conglomerate
	320	350	Sandstone/Gravel/Conglomerate
	350	440	Sandstone/Gravel/Conglomerate
	440	490	Sandstone/Gravel/Conglomerate
	490	530	Sandstone/Gravel/Conglomerate
	530	550	Sandstone/Gravel/Conglomerate
	550	570	Sandstone/Gravel/Conglomerate
	570	580	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	294	594

Meter Number: 20209	Meter Make: SEAMETRICS
Meter Serial Number: 042018001201	Meter Multiplier: 1.0000
Number of Dials: 8	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/07/2021	2021	144453	A	ad		0
02/05/2021	2021	144453	A	ad		0
08/02/2021	2021	144453	A	ad		0
09/01/2021	2021	144453	A	ad		0
10/05/2021	2021	144453	A	ad		0
11/04/2021	2021	144453	A	ad		0
12/13/2021	2021	144453	A	ad		0
01/01/2022	2022	144453	A	ad		0
02/08/2022	2022	144453	A	ad		0
03/02/2022	2022	144453	A	ad		0
04/01/2022	2022	144453	A	ad		0
05/06/2022	2022	144453	A	ad		0
06/07/2022	2022	144453	A	ad		0

07/10/2022	2022	144453	A	ad	0
09/05/2022	2022	144453	A	ad	0
10/10/2022	2022	144453	A	ad	0
11/10/2022	2022	144453	A	ad	0

**YTD Meter Amounts:			Year	Amount
			2021	0
			2022	0

x

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5/31/23 1:37 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	Tws	Rng	X	Y
NA	CP 01760 POD1	3	1	2	16	23S	34E	643627	3575897

Driller License: 1706	Driller Company: ELITE DRILLERS CORPORATION	
Driller Name: WALLACE, BRYCE J.LEE.NER		
Drill Start Date: 02/01/2020	Drill Finish Date: 03/15/2020	Plug Date:
Log File Date: 04/09/2020	PCW Rev Date:	Source: Artesian
Pump Type:	Pipe Discharge Size:	Estimated Yield: 80 GPM
Casing Size: 8.00	Depth Well: 767 feet	Depth Water: 290 feet

Water Bearing Stratifications:	Top	Bottom	Description
	285	320	Sandstone/Gravel/Conglomerate
	320	350	Shale/Mudstone/Siltstone
	350	445	Sandstone/Gravel/Conglomerate
	445	495	Shale/Mudstone/Siltstone
	495	530	Sandstone/Gravel/Conglomerate
	530	555	Sandstone/Gravel/Conglomerate
	555	570	Sandstone/Gravel/Conglomerate
	570	585	Sandstone/Gravel/Conglomerate
	585	600	Shale/Mudstone/Siltstone
	600	630	Shale/Mudstone/Siltstone
	630	660	Sandstone/Gravel/Conglomerate
	660	710	Sandstone/Gravel/Conglomerate
	710	750	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	567	767

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5/31/23 1:39 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	Tws	Rng	X	Y
	CP 00556 POD1	4	4	3	08	23S	34E	641762	3576206

Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY	
Driller Name: ABBOTT, MURRELL		
Drill Start Date: 09/27/1974	Drill Finish Date: 10/17/1974	Plug Date:
Log File Date: 10/25/1974	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 28 GPM
Casing Size: 7.00	Depth Well: 497 feet	Depth Water: 255 feet

Water Bearing Stratifications:	Top	Bottom	Description
	255	497	Other/Unknown

Casing Perforations:	Top	Bottom
	397	497

Meter Number: 8511	Meter Make: MASTER
Meter Serial Number: 162038091	Meter Multiplier: 1.0000
Number of Dials: 9	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
08/20/2004	2004	42932	A	jw		0
12/04/2004	2004	52692	A	jw		2.995
06/06/2014	2014	301111	A	RPT		0
10/01/2014	2014	42846900	A	RPT	Changeout 6-6-14	0
12/31/2014	2014	52078300	A	RPT		28.330
01/01/2015	2015	52078300	A	RPT		0
02/01/2015	2015	54551900	A	RPT		7.591
03/27/2015	2015	8539300	A	RPT	Changeout 3-27-15	0
03/27/2015	2015	58752900	A	RPT		12.892
04/30/2015	2015	11420700	A	RPT		8.843
05/31/2015	2015	14304800	A	RPT		8.851
07/01/2015	2015	17059300	A	RPT		8.453
08/01/2015	2015	19766900	A	RPT		8.309
01/01/2016	2016	29255500	A	RPT		29.119
02/01/2016	2016	29935100	A	RPT		2.086
03/02/2016	2016	29935100	A	RPT		0
04/01/2016	2016	29935100	A	RPT		0
05/01/2016	2016	29935100	A	RPT		0
06/01/2016	2016	30608200	A	RPT		2.066
07/01/2016	2016	30608200	A	RPT		0

08/01/2016	2016	35219100	A	RPT	14.150
09/01/2016	2016	37237600	A	RPT	6.195
10/01/2016	2016	39565700	A	RPT	7.145
11/01/2016	2016	41758893	A	RPT	6.731
12/01/2016	2016	42681000	A	RPT	2.830
12/31/2016	2016	44051528	A	RPT	4.206
01/31/2017	2017	44051556	A	RPT	0
02/28/2017	2017	45103057	A	RPT	3.227
03/31/2017	2017	47434243	A	RPT	7.154
04/30/2017	2017	48896700	A	RPT	4.488
05/31/2017	2017	51591700	A	RPT	8.271
06/30/2017	2017	54128300	A	RPT	7.785
07/31/2017	2017	55958997	A	RPT	5.618
08/14/2017	2017	56239094	A	RPT	0.860
08/14/2017	2017	0	A	RPT	0
08/21/2017	2017	592800	A	RPT	1.819
09/30/2017	2017	593300	A	RPT	0.002
10/31/2017	2017	2259200	A	RPT	5.112
11/30/2017	2017	3589700	A	RPT	4.083
12/31/2017	2017	5014800	A	RPT	4.373
01/31/2018	2018	6071400	A	RPT	3.243
02/28/2018	2018	6484000	A	RPT	1.266
03/31/2018	2018	8664100	A	RPT	6.690
05/31/2018	2018	12408500	A	RPT	11.491
10/31/2018	2018	21487685	A	RPT	27.863
11/30/2018	2018	21487685	A	RPT	0
03/31/2019	2019	21487685	A	RPT	0
04/30/2019	2019	21487685	A	RPT	0

**YTD Meter Amounts:		
Year	Amount	
2004	2.995	
2014	28.330	
2015	54.939	
2016	74.528	
2017	52.792	
2018	50.553	
2019	0	

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5/31/23 1:41 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)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00637	3	3	4	15	23S	34E	645293	3574541*

Driller License: 729	Driller Company: WHELLER, RAY DRILLING CO.	
Driller Name: WHEELER, RONALD R		
Drill Start Date: 07/06/1981	Drill Finish Date: 07/09/1981	Plug Date:
Log File Date: 07/16/1981	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 100 GPM
Casing Size: 7.00	Depth Well: 430 feet	Depth Water: 430 feet

Water Bearing Stratifications:	Top	Bottom	Description
	400	425	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	400	430

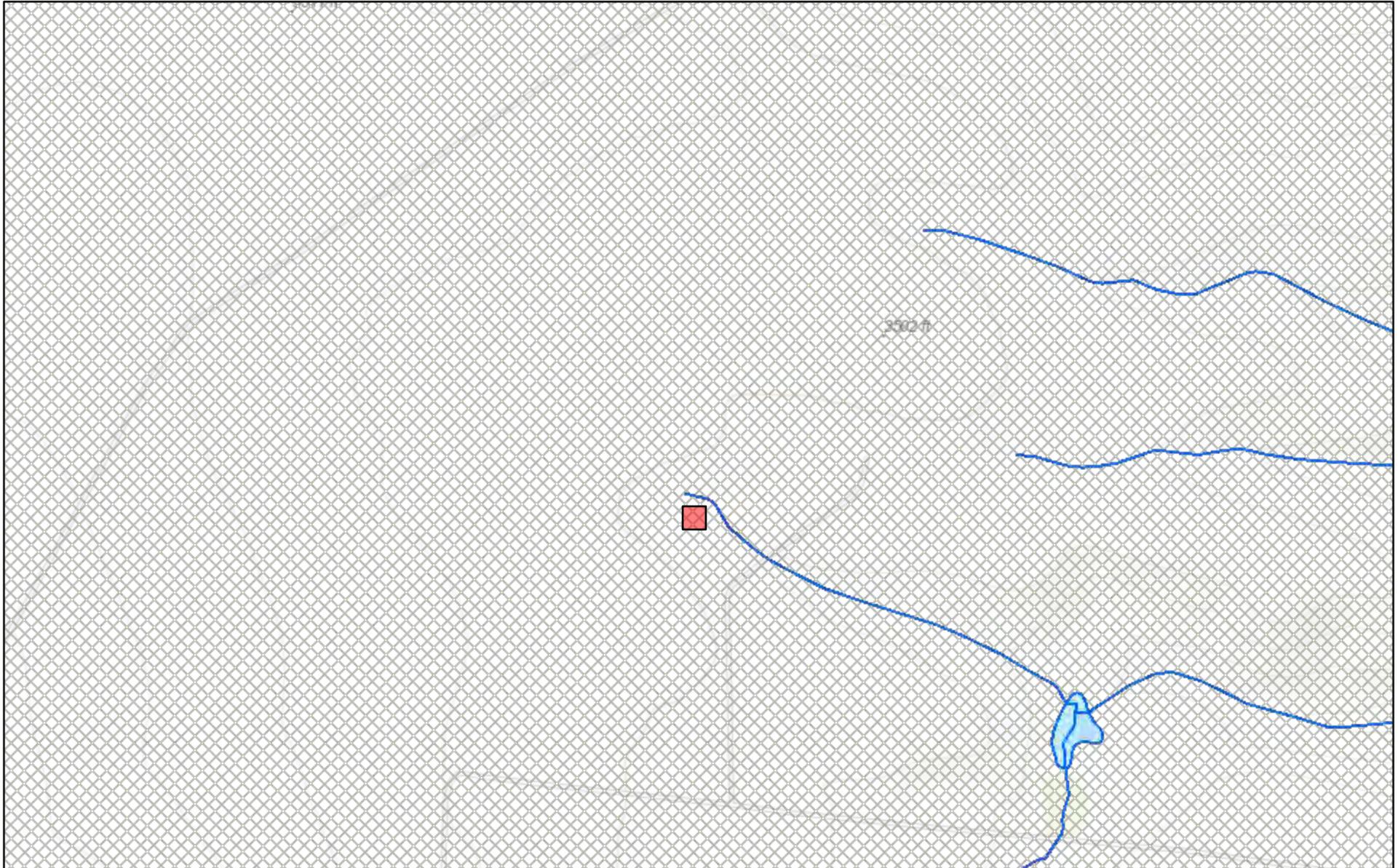
*UTM location was derived from PLSS - see Help

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.

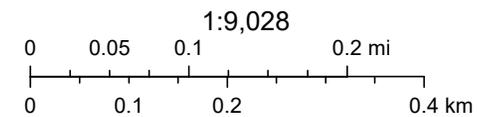
5/31/23 1:42 PM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



May 31, 2023



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

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APPENDIX E

CARMONA RESOURCES





Environment Testing

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- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Carmona
 Carmona Resources
 310 W Wall St
 Ste 500
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JOB DESCRIPTION

Stratocaster 20 Fed 2&4 (4.27.23)
 SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-28852-1

Eurofins Midland
 1211 W. Florida Ave
 Midland TX 79701



Eurofins Midland

Job Notes

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

Authorization



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Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Laboratory Job ID: 880-28852-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
SDG: Lea County, New Mexico

Job ID: 880-28852-1**Laboratory: Eurofins Midland****Narrative**

Job Narrative
880-28852-1

Receipt

The samples were received on 5/26/2023 1:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-28852-1), H-2 (0-0.5') (880-28852-2), H-3 (0-0.5') (880-28852-3) and H-4 (0-0.5') (880-28852-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-54318/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-54318 and analytical batch 880-54336 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-54318 and analytical batch 880-54336 recovered outside control limits for the following analytes: Benzene.

Method 8021B: The CCV was biased low for ethylbenzene, toluene, o-xylene, and m,p-xylenes. Another CCV was analyzed and acceptable within the method specified 12 hour window; therefore, the data was qualified and reported. (CCV 880-54444/33)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54428 and analytical batch 880-54444 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54267 and analytical batch 880-54316 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54268 and analytical batch 880-54393 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-28852-1

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		05/27/23 12:55	05/30/23 21:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/27/23 12:55	05/30/23 21:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/27/23 12:55	05/30/23 21:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/27/23 12:55	05/30/23 21:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/27/23 12:55	05/30/23 21:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/27/23 12:55	05/30/23 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/27/23 12:55	05/30/23 21:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/27/23 12:55	05/30/23 21:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/31/23 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/30/23 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 14:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 14:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/26/23 15:58	05/27/23 14:18	1
o-Terphenyl	109		70 - 130	05/26/23 15:58	05/27/23 14:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.4	F1	4.96		mg/Kg			05/30/23 09:37	1

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-28852-2

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198		mg/Kg		05/27/23 12:55	05/30/23 21:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/27/23 12:55	05/30/23 21:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/27/23 12:55	05/30/23 21:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/27/23 12:55	05/30/23 21:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/27/23 12:55	05/30/23 21:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/27/23 12:55	05/30/23 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/27/23 12:55	05/30/23 21:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/27/23 12:55	05/30/23 21:50	1

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Client Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-28852-2

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/31/23 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/30/23 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 14:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 14:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 15:58	05/27/23 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/26/23 15:58	05/27/23 14:40	1
o-Terphenyl	104		70 - 130				05/26/23 15:58	05/27/23 14:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.6		4.99		mg/Kg			05/30/23 09:53	1

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-28852-3

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		05/27/23 12:55	05/30/23 22:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/27/23 12:55	05/30/23 22:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/27/23 12:55	05/30/23 22:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/27/23 12:55	05/30/23 22:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/27/23 12:55	05/30/23 22:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/27/23 12:55	05/30/23 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				05/27/23 12:55	05/30/23 22:17	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/27/23 12:55	05/30/23 22:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/31/23 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/30/23 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 15:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 15:03	1

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Client Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-28852-3

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				05/26/23 15:58	05/27/23 15:03	1
o-Terphenyl	130		70 - 130				05/26/23 15:58	05/27/23 15:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.1		5.02		mg/Kg			05/30/23 09:58	1

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-28852-4

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/30/23 15:51	05/31/23 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 15:51	05/31/23 23:03	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		05/30/23 15:51	05/31/23 23:03	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		05/30/23 15:51	05/31/23 23:03	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		05/30/23 15:51	05/31/23 23:03	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		05/30/23 15:51	05/31/23 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				05/30/23 15:51	05/31/23 23:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/30/23 15:51	05/31/23 23:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/01/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/30/23 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 15:58	05/27/23 15:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/26/23 15:58	05/27/23 15:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 15:58	05/27/23 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/26/23 15:58	05/27/23 15:25	1
o-Terphenyl	102		70 - 130				05/26/23 15:58	05/27/23 15:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.2		5.03		mg/Kg			05/30/23 10:03	1

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Surrogate Summary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-28852-1	H-1 (0-0.5')	94	95
880-28852-2	H-2 (0-0.5')	93	95
880-28852-3	H-3 (0-0.5')	95	99
880-28852-4	H-4 (0-0.5')	84	100
880-28852-4 MS	H-4 (0-0.5')	76	118
880-28852-4 MSD	H-4 (0-0.5')	84	115
890-4726-A-21-E MS	Matrix Spike	90	109
890-4726-A-21-F MSD	Matrix Spike Duplicate	89	124
LCS 880-54318/1-A	Lab Control Sample	84	86
LCS 880-54428/1-A	Lab Control Sample	82	115
LCSD 880-54318/2-A	Lab Control Sample Dup	87	101
LCSD 880-54428/2-A	Lab Control Sample Dup	105	111
MB 880-54318/5-A	Method Blank	54 S1-	96
MB 880-54425/5-A	Method Blank	83	102
MB 880-54428/5-A	Method Blank	79	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-28851-A-21-D MS	Matrix Spike	98	90
880-28851-A-21-E MSD	Matrix Spike Duplicate	97	90
880-28852-1	H-1 (0-0.5')	105	109
880-28852-2	H-2 (0-0.5')	102	104
880-28852-3	H-3 (0-0.5')	122	130
880-28852-4	H-4 (0-0.5')	97	102
LCS 880-54267/2-A	Lab Control Sample	84	91
LCSD 880-54267/3-A	Lab Control Sample Dup	100	106
MB 880-54267/1-A	Method Blank	203 S1+	223 S1+

Surrogate Legend

1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

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QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54318/5-A
 Matrix: Solid
 Analysis Batch: 54336

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 54318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/23 12:55	05/30/23 12:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/23 12:55	05/30/23 12:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/23 12:55	05/30/23 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/27/23 12:55	05/30/23 12:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/23 12:55	05/30/23 12:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/27/23 12:55	05/30/23 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	05/27/23 12:55	05/30/23 12:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/27/23 12:55	05/30/23 12:05	1

Lab Sample ID: LCS 880-54318/1-A
 Matrix: Solid
 Analysis Batch: 54336

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 54318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1172		mg/Kg		117	70 - 130
Toluene	0.100	0.1182		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1134		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2221		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1082		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-54318/2-A
 Matrix: Solid
 Analysis Batch: 54336

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 54318

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1369	*+	mg/Kg		137	70 - 130	16	35
Toluene	0.100	0.1295		mg/Kg		130	70 - 130	9	35
Ethylbenzene	0.100	0.1246		mg/Kg		125	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2431		mg/Kg		122	70 - 130	9	35
o-Xylene	0.100	0.1180		mg/Kg		118	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-4726-A-21-E MS
 Matrix: Solid
 Analysis Batch: 54336

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 54318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U ** F1	0.101	0.1431	F1	mg/Kg		141	70 - 130
Toluene	0.00436		0.101	0.1197		mg/Kg		114	70 - 130

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QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: 890-4726-A-21-E MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 54336

Prep Batch: 54318

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00199	U	0.101	0.1159		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.00467		0.202	0.2260		mg/Kg		110	70 - 130
o-Xylene	0.00237		0.101	0.1107		mg/Kg		107	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-4726-A-21-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 54336

Prep Batch: 54318

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00199	U *+ F1	0.0994	0.1285		mg/Kg		128	70 - 130	11	35
Toluene	0.00436		0.0994	0.1065		mg/Kg		103	70 - 130	12	35
Ethylbenzene	<0.00199	U	0.0994	0.1011		mg/Kg		102	70 - 130	14	35
m-Xylene & p-Xylene	0.00467		0.199	0.1961		mg/Kg		96	70 - 130	14	35
o-Xylene	0.00237		0.0994	0.09532		mg/Kg		93	70 - 130	15	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Lab Sample ID: MB 880-54425/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 54444

Prep Batch: 54425

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53			1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53			1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53			1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 15:42	05/31/23 10:53			1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53			1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 15:42	05/31/23 10:53			1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	83		70 - 130	05/30/23 15:42	05/31/23 10:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130	05/30/23 15:42	05/31/23 10:53	1

Lab Sample ID: MB 880-54428/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 54444

Prep Batch: 54428

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42			1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42			1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42			1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 15:51	05/31/23 22:42			1

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QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-54428/5-A
Matrix: Solid
Analysis Batch: 54444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54428

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 15:51	05/31/23 22:42	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	79		70 - 130	05/30/23 15:51	05/31/23 22:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/30/23 15:51	05/31/23 22:42	1

Lab Sample ID: LCS 880-54428/1-A
Matrix: Solid
Analysis Batch: 54444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54428

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1294		mg/Kg		129	70 - 130
Toluene	0.100	0.09418		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08057		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1568		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07851		mg/Kg		79	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-54428/2-A
Matrix: Solid
Analysis Batch: 54444

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54428

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1215		mg/Kg		122	70 - 130	6	35
Toluene	0.100	0.09515		mg/Kg		95	70 - 130	1	35
Ethylbenzene	0.100	0.09010		mg/Kg		90	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1872		mg/Kg		94	70 - 130	18	35
o-Xylene	0.100	0.09428		mg/Kg		94	70 - 130	18	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-28852-4 MS
Matrix: Solid
Analysis Batch: 54444

Client Sample ID: H-4 (0-0.5')
Prep Type: Total/NA
Prep Batch: 54428

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.00199	U	0.101	0.1230		mg/Kg		122	70 - 130
Toluene	<0.00199	U	0.101	0.08215		mg/Kg		81	70 - 130
Ethylbenzene	<0.00199	U F1	0.101	0.06967	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1305	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.06536	F1	mg/Kg		65	70 - 130

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QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28852-4 MS
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: H-4 (0-0.5')
 Prep Type: Total/NA
 Prep Batch: 54428

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-28852-4 MSD
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: H-4 (0-0.5')
 Prep Type: Total/NA
 Prep Batch: 54428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Benzene	<0.00199	U	0.100	0.1182		mg/Kg		118	70 - 130	4	35	
Toluene	<0.00199	U	0.100	0.08174		mg/Kg		82	70 - 130	1	35	
Ethylbenzene	<0.00199	U F1	0.100	0.07111		mg/Kg		71	70 - 130	2	35	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1343	F1	mg/Kg		67	70 - 130	3	35	
o-Xylene	<0.00199	U F1	0.100	0.06799	F1	mg/Kg		68	70 - 130	4	35	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

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

Lab Sample ID: MB 880-54267/1-A
 Matrix: Solid
 Analysis Batch: 54316

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 54267

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 09:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 09:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 15:58	05/27/23 09:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	203	S1+	70 - 130	05/26/23 15:58	05/27/23 09:06	1
o-Terphenyl	223	S1+	70 - 130	05/26/23 15:58	05/27/23 09:06	1

Lab Sample ID: LCS 880-54267/2-A
 Matrix: Solid
 Analysis Batch: 54316

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 54267

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	817.4		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	831.8		mg/Kg		83	70 - 130	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	91		70 - 130

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QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-54267/3-A
 Matrix: Solid
 Analysis Batch: 54316

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 54267

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	839.2		mg/Kg		84	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	1000	1005		mg/Kg		100	70 - 130	19	20	
		LCSD	LCSD							
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		100		70 - 130						
o-Terphenyl		106		70 - 130						

Lab Sample ID: 880-28851-A-21-D MS
 Matrix: Solid
 Analysis Batch: 54316

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 54267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	817.9		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	893.8		mg/Kg		89	70 - 130		
		MS	MS								
Surrogate		%Recovery	Qualifier	Limits							
1-Chlorooctane		98		70 - 130							
o-Terphenyl		90		70 - 130							

Lab Sample ID: 880-28851-A-21-E MSD
 Matrix: Solid
 Analysis Batch: 54316

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 54267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	831.4		mg/Kg		81	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	879.5		mg/Kg		88	70 - 130	2	20
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
1-Chlorooctane		97		70 - 130							
o-Terphenyl		90		70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54268/1-A
 Matrix: Solid
 Analysis Batch: 54393

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/30/23 09:05	1

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QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-54268/2-A
 Matrix: Solid
 Analysis Batch: 54393

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-54268/3-A
 Matrix: Solid
 Analysis Batch: 54393

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.4		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-28852-1 MS
 Matrix: Solid
 Analysis Batch: 54393

Client Sample ID: H-1 (0-0.5')
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	40.4	F1	248	259.6	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-28852-1 MSD
 Matrix: Solid
 Analysis Batch: 54393

Client Sample ID: H-1 (0-0.5')
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	40.4	F1	248	259.3	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 54318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-28852-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-28852-3	H-3 (0-0.5')	Total/NA	Solid	5035	
MB 880-54318/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54318/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54318/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4726-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4726-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 54336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-1	H-1 (0-0.5')	Total/NA	Solid	8021B	54318
880-28852-2	H-2 (0-0.5')	Total/NA	Solid	8021B	54318
880-28852-3	H-3 (0-0.5')	Total/NA	Solid	8021B	54318
MB 880-54318/5-A	Method Blank	Total/NA	Solid	8021B	54318
LCS 880-54318/1-A	Lab Control Sample	Total/NA	Solid	8021B	54318
LCSD 880-54318/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54318
890-4726-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	54318
890-4726-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54318

Prep Batch: 54425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54425/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 54428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-4	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-54428/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54428/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54428/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28852-4 MS	H-4 (0-0.5')	Total/NA	Solid	5035	
880-28852-4 MSD	H-4 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 54444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-4	H-4 (0-0.5')	Total/NA	Solid	8021B	54428
MB 880-54425/5-A	Method Blank	Total/NA	Solid	8021B	54425
MB 880-54428/5-A	Method Blank	Total/NA	Solid	8021B	54428
LCS 880-54428/1-A	Lab Control Sample	Total/NA	Solid	8021B	54428
LCSD 880-54428/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54428
880-28852-4 MS	H-4 (0-0.5')	Total/NA	Solid	8021B	54428
880-28852-4 MSD	H-4 (0-0.5')	Total/NA	Solid	8021B	54428

Analysis Batch: 54483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28852-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28852-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-28852-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

GC Semi VOA

Prep Batch: 54267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28852-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28852-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-28852-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-54267/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54267/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54267/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28851-A-21-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28851-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28852-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28852-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	54267
880-28852-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	54267
MB 880-54267/1-A	Method Blank	Total/NA	Solid	8015B NM	54267
LCS 880-54267/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54267
LCSD 880-54267/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54267
880-28851-A-21-D MS	Matrix Spike	Total/NA	Solid	8015B NM	54267
880-28851-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54267

Analysis Batch: 54423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-28852-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-28852-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-28852-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28852-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-28852-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-28852-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-54268/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54268/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54268/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28852-1 MS	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-28852-1 MSD	H-1 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 54393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28852-1	H-1 (0-0.5')	Soluble	Solid	300.0	54268
880-28852-2	H-2 (0-0.5')	Soluble	Solid	300.0	54268
880-28852-3	H-3 (0-0.5')	Soluble	Solid	300.0	54268
880-28852-4	H-4 (0-0.5')	Soluble	Solid	300.0	54268
MB 880-54268/1-A	Method Blank	Soluble	Solid	300.0	54268
LCS 880-54268/2-A	Lab Control Sample	Soluble	Solid	300.0	54268

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QC Association Summary

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 54393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-54268/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54268
880-28852-1 MS	H-1 (0-0.5')	Soluble	Solid	300.0	54268
880-28852-1 MSD	H-1 (0-0.5')	Soluble	Solid	300.0	54268

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Lab Chronicle

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-28852-1

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54318	05/27/23 12:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54336	05/30/23 21:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54483	05/31/23 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54423	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 14:18	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 09:37	CH	EET MID

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-28852-2

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54318	05/27/23 12:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54336	05/30/23 21:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54483	05/31/23 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54423	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 14:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 09:53	CH	EET MID

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-28852-3

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54318	05/27/23 12:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54336	05/30/23 22:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54483	05/31/23 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54423	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 15:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 09:58	CH	EET MID

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-28852-4

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	05/31/23 23:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54483	06/01/23 09:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
 SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-28852-4

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54423	05/30/23 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54267	05/26/23 15:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54316	05/27/23 15:25	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54268	05/26/23 16:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54393	05/30/23 10:03	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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Method Summary

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
SDG: Lea County, New Mexico

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28852-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28852-1	H-1 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28852-2	H-2 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28852-3	H-3 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28852-4	H-4 (0-0.5')	Solid	05/23/23 00:00	05/26/23 13:04

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28852-1
SDG Number: Lea County, New Mexico

Login Number: 28852

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Carmona
 Carmona Resources
 310 W Wall St
 Ste 500
 Midland, Texas 79701
 Generated 6/1/2023 8:48:46 AM

JOB DESCRIPTION

Stratocaster 20 Fed 2&4 (4.27.23)
 SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-28858-1

Eurofins Midland
 1211 W. Florida Ave
 Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
6/1/2023 8:48:46 AM

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

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Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Laboratory Job ID: 880-28858-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
SDG: Lea County, New Mexico

Job ID: 880-28858-1

Laboratory: Eurofins Midland**Narrative****Job Narrative
880-28858-1****Receipt**

The samples were received on 5/26/2023 1:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.25') (880-28858-1), S-1 (0.5') (880-28858-2), S-2 (0-0.25') (880-28858-3), S-2 (0.5') (880-28858-4), S-3 (0-0.2.5') (880-28858-5) and S-3 (0.5') (880-28858-6).

GC VOA

Method 8021B: The CCV was biased low for ethylbenzene, toluene, o-xylene, and m,p-xylenes. Another CCV was analyzed and acceptable within the method specified 12 hour window; therefore, the data was qualified and reported. (CCV 880-54444/33)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54428 and analytical batch 880-54444 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-3 (0.5') (880-28858-6). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54278 and analytical batch 880-54321 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54269 and analytical batch 880-54394 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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



Client Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-0.25')

Lab Sample ID: 880-28858-1

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/30/23 15:51	06/01/23 00:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/30/23 15:51	06/01/23 00:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/30/23 15:51	06/01/23 00:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/30/23 15:51	06/01/23 00:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/30/23 15:51	06/01/23 00:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/30/23 15:51	06/01/23 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	05/30/23 15:51	06/01/23 00:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/30/23 15:51	06/01/23 00:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/01/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1010		49.9		mg/Kg			05/30/23 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:20	05/28/23 14:48	1
Diesel Range Organics (Over C10-C28)	841		49.9		mg/Kg		05/26/23 17:20	05/28/23 14:48	1
Oil Range Organics (Over C28-C36)	170		49.9		mg/Kg		05/26/23 17:20	05/28/23 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/26/23 17:20	05/28/23 14:48	1
o-Terphenyl	98		70 - 130	05/26/23 17:20	05/28/23 14:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		4.96		mg/Kg			05/30/23 11:06	1

Client Sample ID: S-1 (0.5')

Lab Sample ID: 880-28858-2

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/30/23 15:51	06/01/23 00:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/30/23 15:51	06/01/23 00:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/30/23 15:51	06/01/23 00:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/30/23 15:51	06/01/23 00:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/30/23 15:51	06/01/23 00:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/30/23 15:51	06/01/23 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/30/23 15:51	06/01/23 00:46	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/30/23 15:51	06/01/23 00:46	1

Euofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Client Sample ID: S-1 (0.5')

Lab Sample ID: 880-28858-2

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/01/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	411		49.8		mg/Kg			05/30/23 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/26/23 17:20	05/28/23 15:10	1
Diesel Range Organics (Over C10-C28)	332		49.8		mg/Kg		05/26/23 17:20	05/28/23 15:10	1
Oil Range Organics (Over C28-C36)	79.1		49.8		mg/Kg		05/26/23 17:20	05/28/23 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				05/26/23 17:20	05/28/23 15:10	1
o-Terphenyl	108		70 - 130				05/26/23 17:20	05/28/23 15:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.0		5.04		mg/Kg			05/30/23 11:11	1

Client Sample ID: S-2 (0-0.25')

Lab Sample ID: 880-28858-3

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	06/01/23 01:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	06/01/23 01:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	06/01/23 01:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/30/23 15:51	06/01/23 01:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	06/01/23 01:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/30/23 15:51	06/01/23 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				05/30/23 15:51	06/01/23 01:06	1
1,4-Difluorobenzene (Surr)	84		70 - 130				05/30/23 15:51	06/01/23 01:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/01/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	150		49.8		mg/Kg			05/30/23 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/26/23 17:20	05/28/23 15:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Client Sample ID: S-2 (0-0.25')

Lab Sample ID: 880-28858-3

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	150		49.8		mg/Kg		05/26/23 17:20	05/28/23 15:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/26/23 17:20	05/28/23 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				05/26/23 17:20	05/28/23 15:32	1
o-Terphenyl	97		70 - 130				05/26/23 17:20	05/28/23 15:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.8		5.02		mg/Kg			05/30/23 11:27	1

Client Sample ID: S-2 (0.5')

Lab Sample ID: 880-28858-4

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/30/23 15:51	06/01/23 01:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/30/23 15:51	06/01/23 01:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/30/23 15:51	06/01/23 01:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/30/23 15:51	06/01/23 01:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/30/23 15:51	06/01/23 01:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/30/23 15:51	06/01/23 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/30/23 15:51	06/01/23 01:27	1
1,4-Difluorobenzene (Surr)	93		70 - 130				05/30/23 15:51	06/01/23 01:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/01/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	100		49.9		mg/Kg			05/30/23 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:20	05/28/23 15:54	1
Diesel Range Organics (Over C10-C28)	100		49.9		mg/Kg		05/26/23 17:20	05/28/23 15:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/26/23 17:20	05/28/23 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/26/23 17:20	05/28/23 15:54	1
o-Terphenyl	92		70 - 130				05/26/23 17:20	05/28/23 15:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.6		4.97		mg/Kg			05/30/23 11:33	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Client Sample ID: S-3 (0-0.2.5')

Lab Sample ID: 880-28858-5

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/30/23 15:51	06/01/23 01:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/30/23 15:51	06/01/23 01:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/30/23 15:51	06/01/23 01:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/30/23 15:51	06/01/23 01:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/30/23 15:51	06/01/23 01:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/30/23 15:51	06/01/23 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/30/23 15:51	06/01/23 01:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/30/23 15:51	06/01/23 01:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/01/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	297		49.9		mg/Kg			05/30/23 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/26/23 17:20	05/28/23 16:38	1
Diesel Range Organics (Over C10-C28)	246		49.9		mg/Kg		05/26/23 17:20	05/28/23 16:38	1
Oil Range Organics (Over C28-C36)	51.3		49.9		mg/Kg		05/26/23 17:20	05/28/23 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	05/26/23 17:20	05/28/23 16:38	1
o-Terphenyl	95		70 - 130	05/26/23 17:20	05/28/23 16:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.0		4.95		mg/Kg			05/30/23 11:38	1

Client Sample ID: S-3 (0.5')

Lab Sample ID: 880-28858-6

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	06/01/23 02:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	06/01/23 02:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	06/01/23 02:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/30/23 15:51	06/01/23 02:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/30/23 15:51	06/01/23 02:08	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/30/23 15:51	06/01/23 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	05/30/23 15:51	06/01/23 02:08	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/30/23 15:51	06/01/23 02:08	1

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Client Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Client Sample ID: S-3 (0.5')

Lab Sample ID: 880-28858-6

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/01/23 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	178		50.0		mg/Kg			05/30/23 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 17:20	05/28/23 17:01	1
Diesel Range Organics (Over C10-C28)	178		50.0		mg/Kg		05/26/23 17:20	05/28/23 17:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:20	05/28/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				05/26/23 17:20	05/28/23 17:01	1
o-Terphenyl	102		70 - 130				05/26/23 17:20	05/28/23 17:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.3		4.96		mg/Kg			05/30/23 11:43	1

Surrogate Summary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-28852-A-4-C MS	Matrix Spike	76	118
880-28852-A-4-D MSD	Matrix Spike Duplicate	84	115
880-28858-1	S-1 (0-0.25')	153 S1+	101
880-28858-2	S-1 (0.5')	97	83
880-28858-3	S-2 (0-0.25')	83	84
880-28858-4	S-2 (0.5')	106	93
880-28858-5	S-3 (0-0.2.5')	100	97
880-28858-6	S-3 (0.5')	139 S1+	93
LCS 880-54428/1-A	Lab Control Sample	82	115
LCSD 880-54428/2-A	Lab Control Sample Dup	105	111
MB 880-54425/5-A	Method Blank	83	102
MB 880-54428/5-A	Method Blank	79	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-28857-A-1-C MS	Matrix Spike	91	81
880-28857-A-1-D MSD	Matrix Spike Duplicate	98	85
880-28858-1	S-1 (0-0.25')	106	98
880-28858-2	S-1 (0.5')	112	108
880-28858-3	S-2 (0-0.25')	101	97
880-28858-4	S-2 (0.5')	96	92
880-28858-5	S-3 (0-0.2.5')	96	95
880-28858-6	S-3 (0.5')	104	102
LCS 880-54278/2-A	Lab Control Sample	99	91
LCSD 880-54278/3-A	Lab Control Sample Dup	101	95
MB 880-54278/1-A	Method Blank	91	90

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54425/5-A
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 54425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:42	05/31/23 10:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 15:42	05/31/23 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	05/30/23 15:42	05/31/23 10:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130	05/30/23 15:42	05/31/23 10:53	1

Lab Sample ID: MB 880-54428/5-A
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 54428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/30/23 15:51	05/31/23 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/30/23 15:51	05/31/23 22:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/30/23 15:51	05/31/23 22:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	05/30/23 15:51	05/31/23 22:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/30/23 15:51	05/31/23 22:42	1

Lab Sample ID: LCS 880-54428/1-A
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 54428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1294		mg/Kg		129	70 - 130
Toluene	0.100	0.09418		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08057		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1568		mg/Kg		78	70 - 130
o-Xylene	0.100	0.07851		mg/Kg		79	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-54428/2-A
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 54428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1215		mg/Kg		122	70 - 130	6	35

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QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-54428/2-A
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 54428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit	
Toluene	0.100	0.09515		mg/Kg		95	70 - 130	1	35	
Ethylbenzene	0.100	0.09010		mg/Kg		90	70 - 130	11	35	
m-Xylene & p-Xylene	0.200	0.1872		mg/Kg		94	70 - 130	18	35	
o-Xylene	0.100	0.09428		mg/Kg		94	70 - 130	18	35	
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	105		70 - 130							
1,4-Difluorobenzene (Surr)	111		70 - 130							

Lab Sample ID: 880-28852-A-4-C MS
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 54428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.1230		mg/Kg		122	70 - 130		
Toluene	<0.00199	U	0.101	0.08215		mg/Kg		81	70 - 130		
Ethylbenzene	<0.00199	U F1	0.101	0.06967	F1	mg/Kg		69	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1305	F1	mg/Kg		64	70 - 130		
o-Xylene	<0.00199	U F1	0.101	0.06536	F1	mg/Kg		65	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	76		70 - 130								
1,4-Difluorobenzene (Surr)	118		70 - 130								

Lab Sample ID: 880-28852-A-4-D MSD
 Matrix: Solid
 Analysis Batch: 54444

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 54428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1182		mg/Kg		118	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.08174		mg/Kg		82	70 - 130	1	35
Ethylbenzene	<0.00199	U F1	0.100	0.07111		mg/Kg		71	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1343	F1	mg/Kg		67	70 - 130	3	35
o-Xylene	<0.00199	U F1	0.100	0.06799	F1	mg/Kg		68	70 - 130	4	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	84		70 - 130								
1,4-Difluorobenzene (Surr)	115		70 - 130								

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

Lab Sample ID: MB 880-54278/1-A
 Matrix: Solid
 Analysis Batch: 54321

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 54278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/26/23 17:20	05/28/23 09:01	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-54278/1-A
Matrix: Solid
Analysis Batch: 54321

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54278

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/26/23 17:20	05/28/23 09:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/26/23 17:20	05/28/23 09:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	91		70 - 130	05/26/23 17:20	05/28/23 09:01	1
o-Terphenyl	90		70 - 130	05/26/23 17:20	05/28/23 09:01	1

Lab Sample ID: LCS 880-54278/2-A
Matrix: Solid
Analysis Batch: 54321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics (Over C10-C28)	1000	839.9		mg/Kg		84	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	99		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-54278/3-A
Matrix: Solid
Analysis Batch: 54321

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54278

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	851.4		mg/Kg		85	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	887.0		mg/Kg		89	70 - 130	5	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	101		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-28857-A-1-C MS
Matrix: Solid
Analysis Batch: 54321

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 54278

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	564.0	F1	mg/Kg		57	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	743.0		mg/Kg		71	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	91		70 - 130
o-Terphenyl	81		70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-28857-A-1-D MSD
 Matrix: Solid
 Analysis Batch: 54321

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 54278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	603.3	F1	mg/Kg		61	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	799.1		mg/Kg		76	70 - 130	7	20
Surrogate	%Recovery	MSD Qualifier	MSD	Limits							
1-Chlorooctane	98			70 - 130							
o-Terphenyl	85			70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54269/1-A
 Matrix: Solid
 Analysis Batch: 54394

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/30/23 09:19	1

Lab Sample ID: LCS 880-54269/2-A
 Matrix: Solid
 Analysis Batch: 54394

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.7		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-54269/3-A
 Matrix: Solid
 Analysis Batch: 54394

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-28856-A-5-B MS
 Matrix: Solid
 Analysis Batch: 54394

Client Sample ID: Matrix Spike
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	59.7	F1	250	274.3	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-28856-A-5-C MSD
 Matrix: Solid
 Analysis Batch: 54394

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	59.7	F1	250	274.9	F1	mg/Kg		86	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

GC VOA

Prep Batch: 54425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54425/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 54428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-1	S-1 (0-0.25')	Total/NA	Solid	5035	
880-28858-2	S-1 (0.5')	Total/NA	Solid	5035	
880-28858-3	S-2 (0-0.25')	Total/NA	Solid	5035	
880-28858-4	S-2 (0.5')	Total/NA	Solid	5035	
880-28858-5	S-3 (0-0.2.5')	Total/NA	Solid	5035	
880-28858-6	S-3 (0.5')	Total/NA	Solid	5035	
MB 880-54428/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54428/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54428/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28852-A-4-C MS	Matrix Spike	Total/NA	Solid	5035	
880-28852-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 54444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-1	S-1 (0-0.25')	Total/NA	Solid	8021B	54428
880-28858-2	S-1 (0.5')	Total/NA	Solid	8021B	54428
880-28858-3	S-2 (0-0.25')	Total/NA	Solid	8021B	54428
880-28858-4	S-2 (0.5')	Total/NA	Solid	8021B	54428
880-28858-5	S-3 (0-0.2.5')	Total/NA	Solid	8021B	54428
880-28858-6	S-3 (0.5')	Total/NA	Solid	8021B	54428
MB 880-54425/5-A	Method Blank	Total/NA	Solid	8021B	54425
MB 880-54428/5-A	Method Blank	Total/NA	Solid	8021B	54428
LCS 880-54428/1-A	Lab Control Sample	Total/NA	Solid	8021B	54428
LCSD 880-54428/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54428
880-28852-A-4-C MS	Matrix Spike	Total/NA	Solid	8021B	54428
880-28852-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	54428

Analysis Batch: 54551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-1	S-1 (0-0.25')	Total/NA	Solid	Total BTEX	
880-28858-2	S-1 (0.5')	Total/NA	Solid	Total BTEX	
880-28858-3	S-2 (0-0.25')	Total/NA	Solid	Total BTEX	
880-28858-4	S-2 (0.5')	Total/NA	Solid	Total BTEX	
880-28858-5	S-3 (0-0.2.5')	Total/NA	Solid	Total BTEX	
880-28858-6	S-3 (0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 54278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-1	S-1 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-28858-2	S-1 (0.5')	Total/NA	Solid	8015NM Prep	
880-28858-3	S-2 (0-0.25')	Total/NA	Solid	8015NM Prep	
880-28858-4	S-2 (0.5')	Total/NA	Solid	8015NM Prep	
880-28858-5	S-3 (0-0.2.5')	Total/NA	Solid	8015NM Prep	
880-28858-6	S-3 (0.5')	Total/NA	Solid	8015NM Prep	
MB 880-54278/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 54278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-54278/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28857-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28857-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-1	S-1 (0-0.25')	Total/NA	Solid	8015B NM	54278
880-28858-2	S-1 (0.5')	Total/NA	Solid	8015B NM	54278
880-28858-3	S-2 (0-0.25')	Total/NA	Solid	8015B NM	54278
880-28858-4	S-2 (0.5')	Total/NA	Solid	8015B NM	54278
880-28858-5	S-3 (0-0.2.5')	Total/NA	Solid	8015B NM	54278
880-28858-6	S-3 (0.5')	Total/NA	Solid	8015B NM	54278
MB 880-54278/1-A	Method Blank	Total/NA	Solid	8015B NM	54278
LCS 880-54278/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54278
LCSD 880-54278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54278
880-28857-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	54278
880-28857-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54278

Analysis Batch: 54356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-1	S-1 (0-0.25')	Total/NA	Solid	8015 NM	
880-28858-2	S-1 (0.5')	Total/NA	Solid	8015 NM	
880-28858-3	S-2 (0-0.25')	Total/NA	Solid	8015 NM	
880-28858-4	S-2 (0.5')	Total/NA	Solid	8015 NM	
880-28858-5	S-3 (0-0.2.5')	Total/NA	Solid	8015 NM	
880-28858-6	S-3 (0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-1	S-1 (0-0.25')	Soluble	Solid	DI Leach	
880-28858-2	S-1 (0.5')	Soluble	Solid	DI Leach	
880-28858-3	S-2 (0-0.25')	Soluble	Solid	DI Leach	
880-28858-4	S-2 (0.5')	Soluble	Solid	DI Leach	
880-28858-5	S-3 (0-0.2.5')	Soluble	Solid	DI Leach	
880-28858-6	S-3 (0.5')	Soluble	Solid	DI Leach	
MB 880-54269/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54269/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54269/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28856-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28856-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 54394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-1	S-1 (0-0.25')	Soluble	Solid	300.0	54269
880-28858-2	S-1 (0.5')	Soluble	Solid	300.0	54269
880-28858-3	S-2 (0-0.25')	Soluble	Solid	300.0	54269
880-28858-4	S-2 (0.5')	Soluble	Solid	300.0	54269
880-28858-5	S-3 (0-0.2.5')	Soluble	Solid	300.0	54269

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 54394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28858-6	S-3 (0.5')	Soluble	Solid	300.0	54269
MB 880-54269/1-A	Method Blank	Soluble	Solid	300.0	54269
LCS 880-54269/2-A	Lab Control Sample	Soluble	Solid	300.0	54269
LCSD 880-54269/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54269
880-28856-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	54269
880-28856-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	54269

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- 12
- 13
- 14

Lab Chronicle

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-0.25')

Lab Sample ID: 880-28858-1

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	06/01/23 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54551	06/01/23 09:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54356	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 14:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 11:06	CH	EET MID

Client Sample ID: S-1 (0.5')

Lab Sample ID: 880-28858-2

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	06/01/23 00:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54551	06/01/23 09:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54356	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 15:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 11:11	CH	EET MID

Client Sample ID: S-2 (0-0.25')

Lab Sample ID: 880-28858-3

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	06/01/23 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54551	06/01/23 09:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54356	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 15:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 11:27	CH	EET MID

Client Sample ID: S-2 (0.5')

Lab Sample ID: 880-28858-4

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	06/01/23 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54551	06/01/23 09:26	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

Client Sample ID: S-2 (0.5')

Lab Sample ID: 880-28858-4

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54356	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 15:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 11:33	CH	EET MID

Client Sample ID: S-3 (0-0.2.5')

Lab Sample ID: 880-28858-5

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	06/01/23 01:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54551	06/01/23 09:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54356	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 16:38	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 11:38	CH	EET MID

Client Sample ID: S-3 (0.5')

Lab Sample ID: 880-28858-6

Date Collected: 05/23/23 00:00

Matrix: Solid

Date Received: 05/26/23 13:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	54428	05/30/23 15:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54444	06/01/23 02:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54551	06/01/23 09:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54356	05/30/23 09:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54278	05/26/23 17:20	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54321	05/28/23 17:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54269	05/26/23 16:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54394	05/30/23 11:43	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

- 1
- 2
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- 13
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Method Summary

Client: Carmona Resources
 Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
 SDG: Lea County, New Mexico

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Carmona Resources
Project/Site: Stratocaster 20 Fed 2&4 (4.27.23)

Job ID: 880-28858-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-28858-1	S-1 (0-0.25')	Solid	05/23/23 00:00	05/26/23 13:04
880-28858-2	S-1 (0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28858-3	S-2 (0-0.25')	Solid	05/23/23 00:00	05/26/23 13:04
880-28858-4	S-2 (0.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28858-5	S-3 (0-0.2.5')	Solid	05/23/23 00:00	05/26/23 13:04
880-28858-6	S-3 (0.5')	Solid	05/23/23 00:00	05/26/23 13:04

- 1
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- 4
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- 7
- 8
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- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-28858-1
SDG Number: Lea County, New Mexico

Login Number: 28858

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

- 1
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- 12
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- 14



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

August 08, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: STRATOCASTER 20 FED 2 & 4 (4.27.23)

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 9:54.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 1 (1') (H234176-01)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	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	48.0	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 2 (1') (H234176-02)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.8 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 3 (1') (H234176-03)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 4 (1') (H234176-04)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 5 (1') (H234176-05)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	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	32.0	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.3 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 6 (1') (H234176-06)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 7 (1') (H234176-07)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	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	32.0	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 62.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.4 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 8 (0.5') (H234176-08)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	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	<16.0	16.0	08/07/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 9 (0.5') (H234176-09)

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	08/07/2023	ND	1.87	93.3	2.00	12.6		
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4		
Total BTEX	<0.300	0.300	08/07/2023	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	<16.0	16.0	08/07/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97		
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65		
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND						

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 10 (0.5') (H234176-10)

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	08/07/2023	ND	1.87	93.3	2.00	12.6		
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4		
Total BTEX	<0.300	0.300	08/07/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/07/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97		
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65		
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND						

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 11 (0.5') (H234176-11)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 61.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 12 (0.5') (H234176-12)

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	08/07/2023	ND	1.87	93.3	2.00	12.6		
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4		
Total BTEX	<0.300	0.300	08/07/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97		
DRO >C10-C28*	86.9	10.0	08/07/2023	ND	160	80.1	200	3.65		
EXT DRO >C28-C36	32.7	10.0	08/07/2023	ND						

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 13 (0.5') (H234176-13)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	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	<16.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	12.1	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 14 (0.5') (H234176-14)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	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	<16.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 64.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.4 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 15 (0.5') (H234176-15)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	19.2	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 56.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.8 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 16 (0.5') (H234176-16)

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	08/07/2023	ND	1.87	93.3	2.00	12.6		
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4		
Total BTEX	<0.300	0.300	08/07/2023	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	<16.0	16.0	08/07/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97		
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	160	80.1	200	3.65		
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND						

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 17 (0.5') (H234176-17)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	39.5	10.0	08/07/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	23.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 18 (0.5') (H234176-18)

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	08/07/2023	ND	1.87	93.3	2.00	12.6		
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4		
Total BTEX	<0.300	0.300	08/07/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	155	77.5	200	3.97		
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	160	80.1	200	3.65		
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND						

Surrogate: 1-Chlorooctane 66.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 19 (0.5') (H234176-19)

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	08/07/2023	ND	1.87	93.3	2.00	12.6		
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4		
Total BTEX	<0.300	0.300	08/07/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/07/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	155	77.5	200	3.97		
DRO >C10-C28*	17.1	10.0	08/08/2023	ND	160	80.1	200	3.65		
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND						

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.6 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 20 (1') (H234176-20)

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	08/07/2023	ND	1.87	93.3	2.00	12.6	
Toluene*	<0.050	0.050	08/07/2023	ND	1.78	89.0	2.00	11.8	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.81	90.3	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.40	90.0	6.00	12.4	
Total BTEX	<0.300	0.300	08/07/2023	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	80.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	155	77.5	200	3.97	
DRO >C10-C28*	82.3	10.0	08/08/2023	ND	160	80.1	200	3.65	
EXT DRO >C28-C36	36.6	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 64.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 21 (1') (H234176-21)

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	08/07/2023	ND	2.19	110	2.00	13.2		
Toluene*	<0.050	0.050	08/07/2023	ND	2.10	105	2.00	13.0		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.97	98.5	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.93	98.8	6.00	12.5		
Total BTEX	<0.300	0.300	08/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/07/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48		
DRO >C10-C28*	20.4	10.0	08/07/2023	ND	151	75.3	200	0.903		
EXT DRO >C28-C36	10.3	10.0	08/07/2023	ND						

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 22 (1') (H234176-22)

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	08/07/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/07/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	109	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	68.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 66.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 23 (1') (H234176-23)

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	08/07/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/07/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 24 (1') (H234176-24)

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	08/07/2023	ND	2.19	110	2.00	13.2		
Toluene*	<0.050	0.050	08/07/2023	ND	2.10	105	2.00	13.0		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.97	98.5	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.93	98.8	6.00	12.5		
Total BTEX	<0.300	0.300	08/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48		
DRO >C10-C28*	18.3	10.0	08/07/2023	ND	151	75.3	200	0.903		
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND						

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 25 (1') (H234176-25)

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	08/07/2023	ND	2.19	110	2.00	13.2		
Toluene*	<0.050	0.050	08/07/2023	ND	2.10	105	2.00	13.0		
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.97	98.5	2.00	12.6		
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.93	98.8	6.00	12.5		
Total BTEX	<0.300	0.300	08/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 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	32.0	16.0	08/07/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48		
DRO >C10-C28*	14.2	10.0	08/07/2023	ND	151	75.3	200	0.903		
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND						

Surrogate: 1-Chlorooctane 67.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 26 (1') (H234176-26)

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	08/07/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/07/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/07/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	16.4	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 27 (1') (H234176-27)

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	08/07/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/07/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	22.9	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 1 (1') (H234176-28)

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	08/07/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/07/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 2 (1') (H234176-29)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 3 (0.5') (H234176-30)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 4 (1') (H234176-31)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 5 (0.5') (H234176-32)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 6 (0.5') (H234176-33)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/07/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 7 (0.5') (H234176-34)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 8 (1') (H234176-35)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 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:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 9 (1') (H234176-36)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	48.0	16.0	08/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/08/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: SW - 10 (1') (H234176-37)

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	08/08/2023	ND	2.19	110	2.00	13.2	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	13.0	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.97	98.5	2.00	12.6	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.93	98.8	6.00	12.5	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	158	78.9	200	2.48	
DRO >C10-C28*	41.0	10.0	08/08/2023	ND	151	75.3	200	0.903	
EXT DRO >C28-C36	18.5	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H234170

Page 1 of 4

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"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____

Project Name:		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2034	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		Due Date:	24 Hrs <th colspan="12"></th> <th>None: NO</th> <th>DI Water: H₂O</th>													None: NO	DI Water: H ₂ O
Project Location:	Lea County, New Mexico			Parameters													Cool: Cool	MeOH: Me		
Sampler's Name:	KB																HCL: HC	HNO ₃ : HN		
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													H ₃ PO ₄ : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140	Correction Factor:	1													NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	3.9	Corrected Temperature:	1													Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A															Zn Acetate+NaOH: Zn				
Total Containers:																NaOH+Ascorbic Acid: SAPC				
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500											Sample Comments
CS-1 (1')	8/7/2023		X		Comp	1	X	X	X											1
CS-2 (1')	8/7/2023		X		Comp	1	X	X	X											2
CS-3 (1')	8/7/2023		X		Comp	1	X	X	X											3
CS-4 (1')	8/7/2023		X		Comp	1	X	X	X											4
CS-5 (1')	8/7/2023		X		Comp	1	X	X	X											5
CS-6 (1')	8/7/2023		X		Comp	1	X	X	X											6
CS-7 (1')	8/7/2023		X		Comp	1	X	X	X											7
CS-8 (0.5')	8/7/2023		X		Comp	1	X	X	X											8
CS-9 (0.5')	8/7/2023		X		Comp	1	X	X	X											9
CS-10 (0.5')	8/7/2023		X		Comp	1	X	X	X											10

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/7/23 0954		

Chain of Custody

Work Order No: H234174

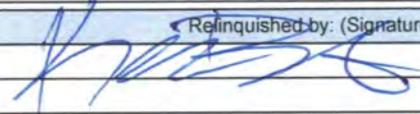
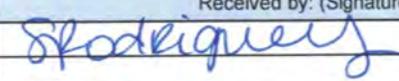
Page 3 of 4

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"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Stratocaster 20 Fed 2&4 (4.27.23)		Turn Around		ANALYSIS REQUEST												Preservative Codes									
Project Number:		2034		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush														None: NO DI Water: H ₂ O									
Project Location:		Lea County, New Mexico		Due Date:		24 Hrs														Cool: Cool MeOH: Me							
Sampler's Name:		KB																		HCL: HC HNO ₃ : HN							
PO #:																				H ₂ S ₂ O ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														H ₃ PO ₄ : HP					
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Thermometer ID:				140														NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:																		Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:				3.9														Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC					
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
CS-21 (1')		8/7/2023				X				Comp		1		X X X												21	
CS-22 (1')		8/7/2023				X				Comp		1		X X X												22	
CS-23 (1')		8/7/2023				X				Comp		1		X X X												23	
CS-24 (1')		8/7/2023				X				Comp		1		X X X												24	
CS-25 (1')		8/7/2023				X				Comp		1		X X X												25	
CS-26 (1')		8/7/2023				X				Comp		1		X X X												26	
CS-27 (1')		8/7/2023				X				Comp		1		X X X												27	
SW-1 (1')		8/7/2023				X				Comp		1		X X X												28	
SW-2 (1')		8/7/2023				X				Comp		1		X X X												29	
SW-3 (0.5')		8/7/2023				X				Comp		1		X X X												30	

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

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/7/23 09:54		



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

August 09, 2023

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

RE: STRATOCASTER 20 FED 2 & 4 (4.27.23)

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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, flowing "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:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 12 (1') (H234225-01)

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	08/09/2023	ND	2.14	107	2.00	3.20	
Toluene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	3.29	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	1.93	96.4	2.00	4.51	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.76	96.0	6.00	4.22	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	163	81.6	200	0.705	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	182	90.9	200	5.58	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane 101 % 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



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:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 20 (1.5') (H234225-02)

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	08/09/2023	ND	2.14	107	2.00	3.20		
Toluene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	3.29		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	1.93	96.4	2.00	4.51		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.76	96.0	6.00	4.22		
Total BTEX	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 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	160	16.0	08/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	163	81.6	200	0.705		
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	182	90.9	200	5.58		
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND						

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	STRATOCASTER 20 FED 2 & 4 (4.27.23)	Sampling Condition:	Cool & Intact
Project Number:	2034	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NEW MEXICO		

Sample ID: CS - 22 (1.5') (H234225-03)

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	08/09/2023	ND	2.14	107	2.00	3.20		
Toluene*	<0.050	0.050	08/09/2023	ND	2.06	103	2.00	3.29		
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	1.93	96.4	2.00	4.51		
Total Xylenes*	<0.150	0.150	08/09/2023	ND	5.76	96.0	6.00	4.22		
Total BTEX	<0.300	0.300	08/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 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	48.0	16.0	08/09/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2023	ND	163	81.6	200	0.705		
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	182	90.9	200	5.58		
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND						

Surrogate: 1-Chlorooctane 97.8 % 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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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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 252089

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 252089
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/29/2023