



SITE INFORMATION

Deferral Report
Mescalero (11.07.2024)
Incident ID: NAPP2431326911
Lea County, New Mexico
Unit H Sec 07 T19S R34E
32.668111°, -103.604005°

Point of Release: Valve on the LACT unit
Release Date: 11.07.2024
Volume Released: 23 Barrels of Crude Oil
Volume Recovered: 21 Barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
Delek Logistics Company
305 N. Washington
El Dorado, Arkansas 71730

Prepared by:
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Suite 500
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January 13, 2024

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

**Re: Deferral Report
Mescalero (11.07.2024)
Incident ID: NAPP2431326911
Delek Logistics Companies
Site Location: Unit H, S07, T19S, R34E
(Lat 32.668111°, Long -103.604005°)
Lea County, New Mexico**

To whom it may concern:

On behalf of Delek Logistics Companies (Delek), Carmona Resources, LLC has prepared this letter to document site activities for the Mescalero release. The site is located at 32.668111°, -103.604005° within Unit H, S07, T19S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the incident was discovered on November 7, 2024, caused by failure at a valve on the LACT unit. It released approximately twenty-three (23) barrels of crude oil, with twenty-one (21) barrels of crude oil recovered. The release occurred inside the lined containment of the LACT unit and over sprayed onto the well pad and pasture. Refer to Figure 3 for a spill overview. The Notice of Release 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, there are no known water sources are within a 0.50-mile radius of the location. The nearest water well is approximately 1.10 miles North of the site in S06, T19S, R34E and was last gauged in 2021. The reported depth to groundwater is 243.93' feet below the ground surface (ft bgs). A copy of the associated well log is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On November 13, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of seven (7) sample points (S-1 through S-7), and six (6) horizontal samples (H-1 through H-6) were installed to total depths ranging from surface to 9.0' bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the



soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Secondary Assessment

On November 19, 2024, Carmona Resources, LLC was onsite overseeing remediation activities and installed two (2) test trenches (T-1 and T-2) to vertically delineate the areas of S-2 & S-3, respectively. The test trenches were installed to total depths ranging from surface to 10.0' bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved for the areas of S-1 and S-4 through S-7 during the initial assessment. The areas of S-2 & S-3 were later delineated during the secondary assessment by T-1 & T-2, respectively. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-6 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

Between November 18, 2024, and November 21, 2024, Carmona Resources personnel were onsite to oversee the remediation activities, collect confirmation samples and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on November 14, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. A total of thirty-one (31) confirmation floor samples (CS-1 and CS-31), and eleven (11) sidewall samples (SW-1 through SW-11) were collected every 200 square feet to ensure the proper removal of the contaminated soils at the time. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300/4500. 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.

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

Deferral Area

Between November 18, 2024, and November 21, 2024, Carmona Resources personnel were onsite to oversee a third party hydrovac company remove material of the area that included pipe racks and elevated flowlines between S-1 and the area of S-2 & S-3 (See figure 3). During the hydrovac operations, the ground became very unstable around the pipe rack supports and equipment began to shift. Work was immediately halted, and wooden supports were installed so that no additional shifting was to occur. Furthermore, the excavation of the areas S-2 & S-3 was also taking place and the ground experienced



cave-ins, which also affected the stability of the ground under the pipe racks (approximately 8 feet to the north). After further investigation, it was determined that the area under the pipe rack and the areas of S-2 & S-3 had been previously excavated during a 2023 spill remediation (NAPP2305947643) and was backfilled with soft topsoil material. This soft topsoil material combined with fluid from the hydrovac operations created an unsafe environment in which cave-ins occurred throughout the excavation area. The area directly under the pipe racks was hydro-excavated to a depth of 1.0' before the operation was terminated. Composite confirmation floor and sidewall samples were collected to document the area to be deferred for future reference. CS-26 through CS-28 and SW-5 & SW-6 represent the deferred areas under the pipe racks. Please see Table 2 and Figure 4 for reference. Correspondence of this situation can also be found in Appendix C.

Approximately 5,280 square feet and 288 cubic yards of material were excavated and transported offsite for proper disposal. Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Backfill material was collected from the Smith Ranch backfill pit located at 32.682954, -103.601634. A composite backfill sample was collected at the backfill pit and was analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. See Table 2.

6.0 Liner Inspection Activities

Before conducting the liner inspection, a crew was onsite to remove all freestanding fluids within the containment of the LACT unit. Once the plastic liner was thoroughly cleaned, the NMOCD division office was notified via NMOCD portal on November 14, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the NMOCD correspondence prior to performing the liner inspection. On November 19, 2024, Carmona Resources, LLC conducted liner inspection activities to assess the liner's integrity within the LACT unit area and determined the liner was intact with no integrity issues. Refer to the Photolog in Appendix B and Figure 6 for details. Appendix C also contains a Liner Integrity Certification.

7.0 NMOCD Communications

On November 15, 2024, a meeting with the NMOCD, Delek Logistics personnel, and Carmona Resources personnel was conducted to discuss inconsistencies that were discovered during the initial site assessment as well as safety concerns which led to areas being deferred. Following the site assessment that occurred on November 13, 2024, a review of the lab analytical data occurred for which some inconsistencies were found. The release documented within this report was a crude oil spill from the LACT unit onsite. The contamination expected to be found from a crude oil release are hydrocarbons and benzene, toluene, ethylbenzene, and xylenes (BTEX). During the initial site assessment, the area of S-5, which was more than 40 feet away from the point of release, showed elevated concentrations of Chloride contamination, which is not consistent with a crude oil release from a LACT unit.

After the meeting on November 15, 2024, it was determined that the contamination found in the area of S-5 was not consistent with this crude oil release and Delek was not responsible for remediating that area. Correspondence and documents presented in that meeting can be found in Appendix C.

8.0 Reclamation Activities

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The backfilled areas were seeded on December 6, 2024. The appropriate pounds of pure live seed per acre were used. The seeds were applied via seed broadcaster. The seed mixture used was BLM LPC Seed Mix (see attachments in Appendix B). Site inspections will be performed to evaluate the revegetation progress and assess the site for the presence of primary or secondary noxious weeds. An eradication method will be implemented if any noxious weeds are present.



9.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

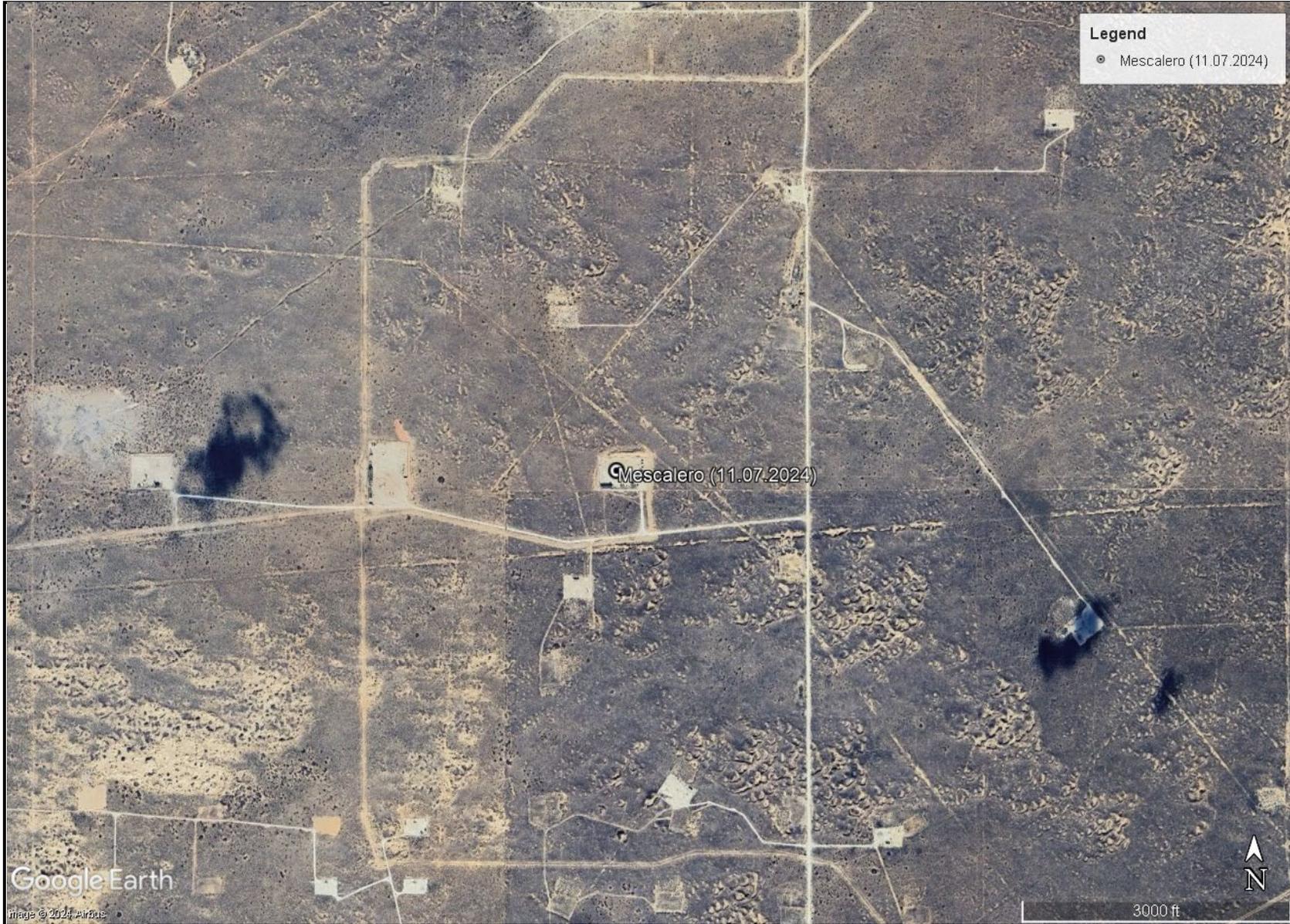
Ashton Thielke
Environmental Manager

Gilbert Priego Jr.
Project Manager

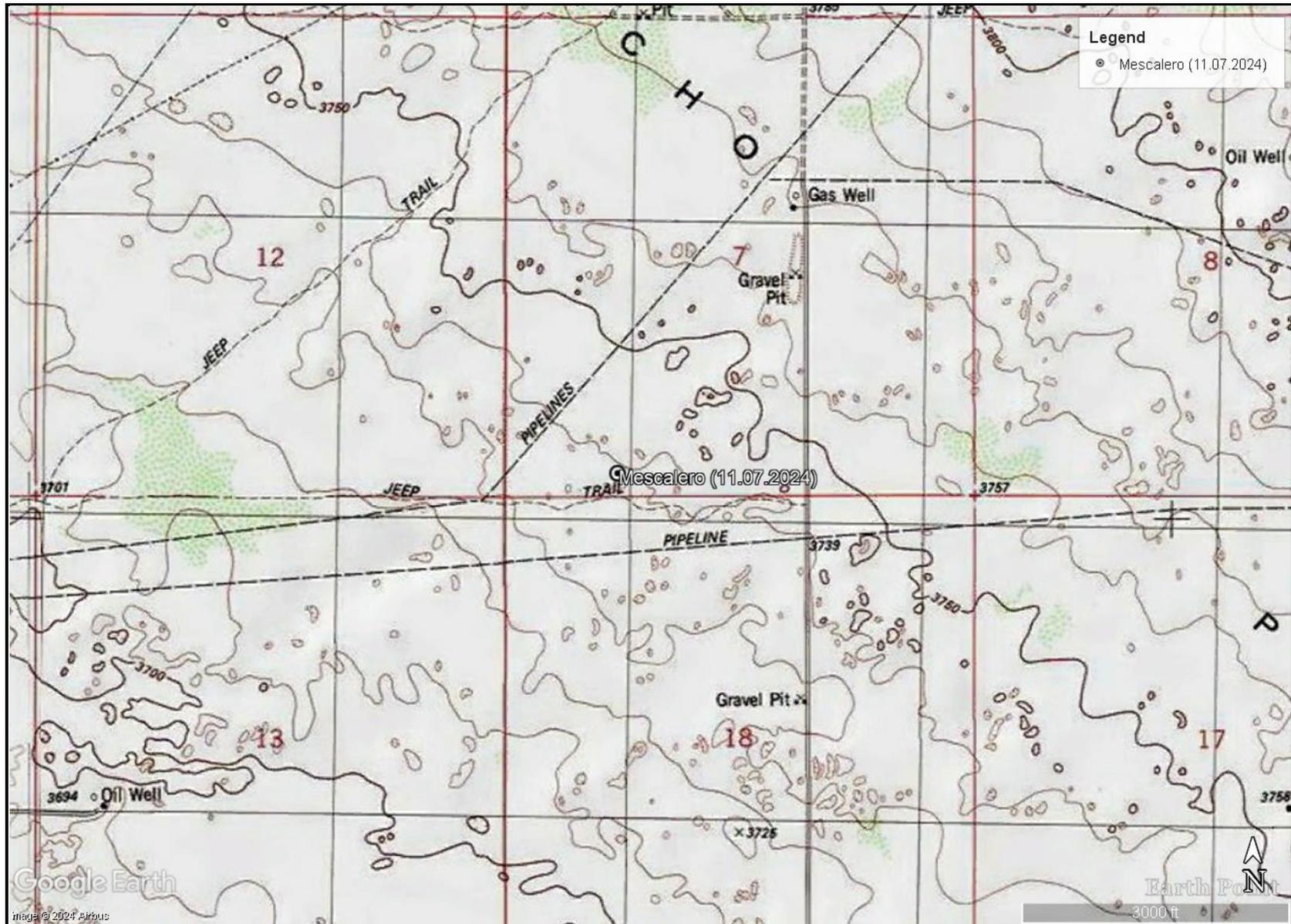
FIGURES

CARMONA RESOURCES





<p>OVERVIEW MAP DELEK LOGISTICS COMPANY MESCALERO (11.07.2024) LEA COUNTY, NEW MEXICO 32.668111°, -103.604005°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 1</p>
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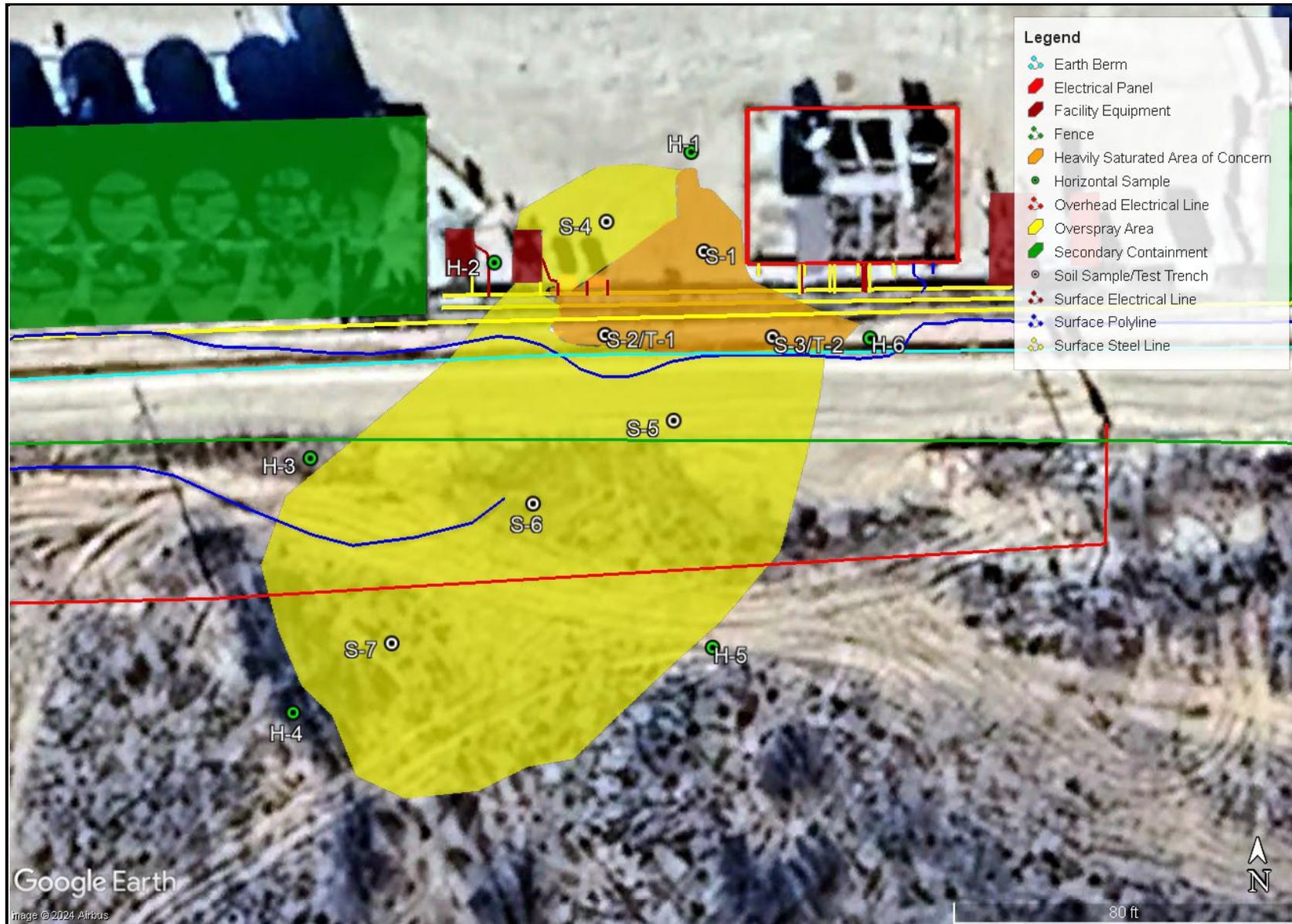
Google Earth
img © 2024 Airbus

Earth Point
3000 ft

TOPOGRAPHIC MAP
DELEK LOGISTICS COMPANY
MESCALERO (11.07.2024)
LEA COUNTY, NEW MEXICO
32.668111°, -103.604005°



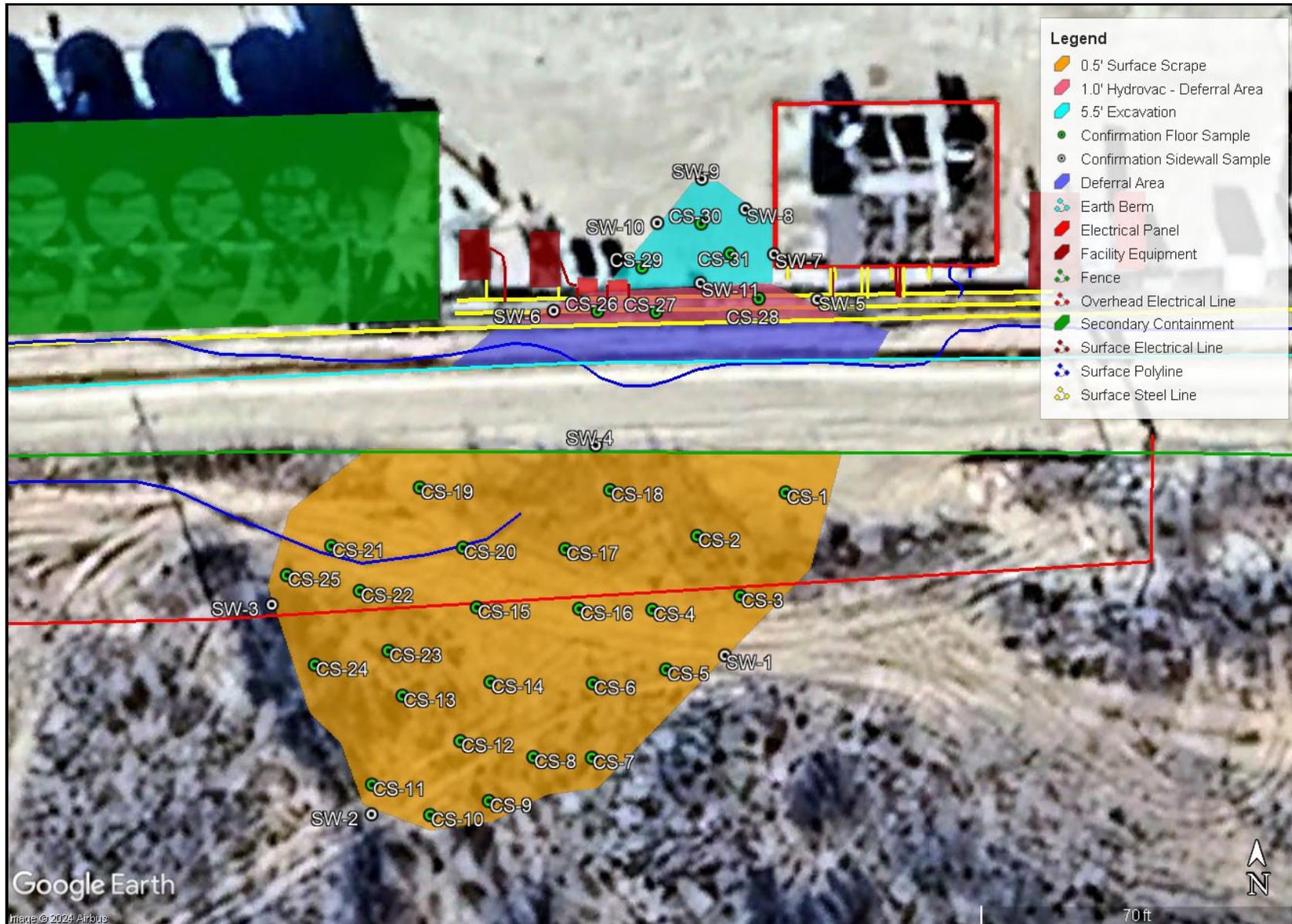
FIGURE 2



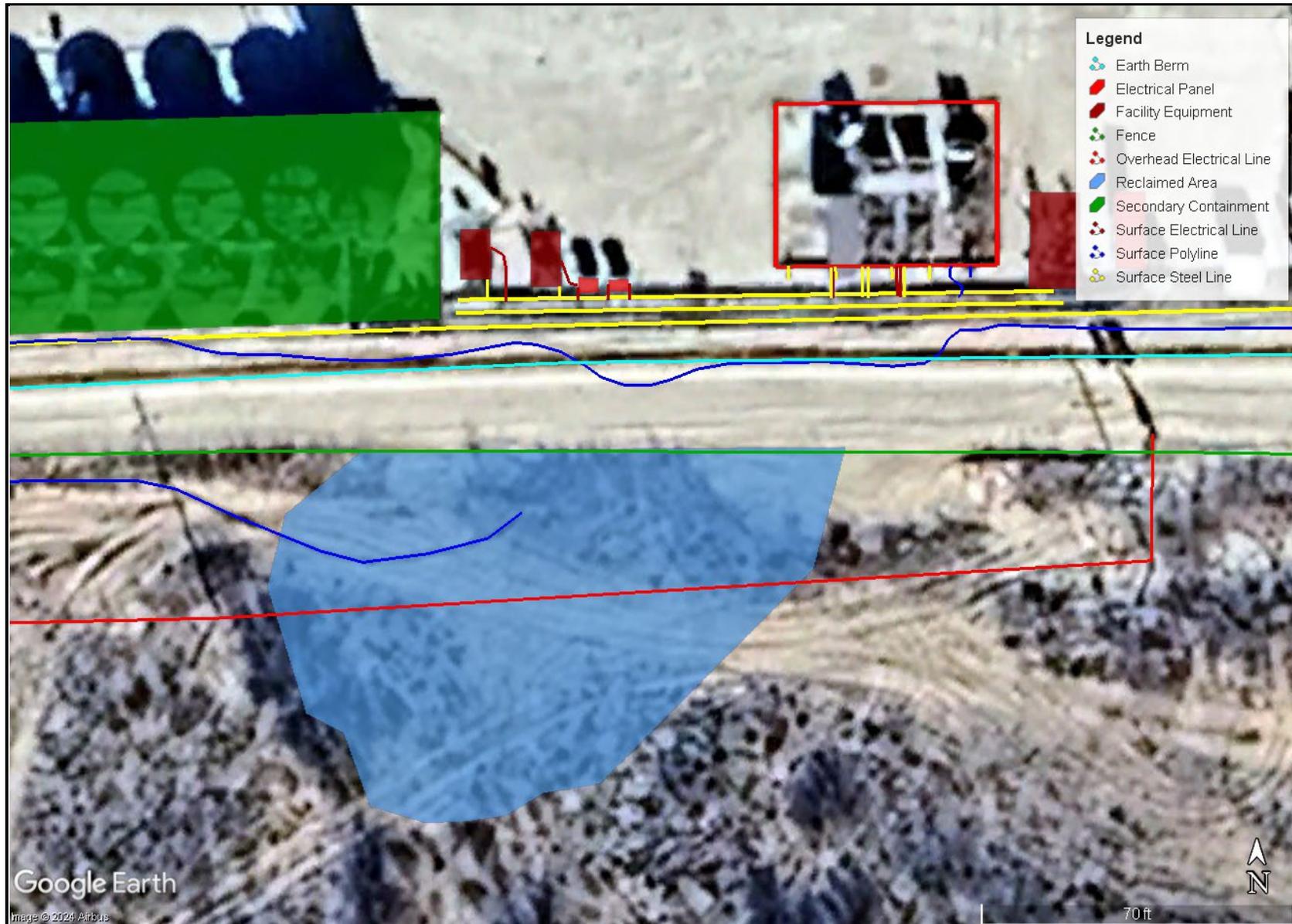
RELEASE OVERVIEW MAP
 DELEK LOGISTICS COMPANY
 MESCALERO (11.07.2024)
 LEA COUNTY, NEW MEXICO
 32.668111°, -103.604005°



FIGURE 3



<p>EXCAVATION MAP DELEK LOGISTICS COMPANY MESCALERO (11.07.2024) LEA COUNTY, NEW MEXICO 32.668111°, -103.604005°</p>	<p>CARMONA RESOURCES </p>	<p>FIGURE 4</p>
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Google Earth

Image © 2024 Airbus

70 ft

RECLAMATION MAP
DELEK LOGISTICS COMPANY
MESCALERO (11.07.2024)
LEA COUNTY, NEW MEXICO
32.668111°, -103.604005°



FIGURE 5



Legend

-  Area of Liner Inspection
-  Secondary Containment

Google Earth
Image © 2024 Airbus

SECONDARY CONTAINMENT MAP
DELEK LOGISTICS COMPANY
MESCALERO (11.07.2024)
LEA COUNTY, NEW MEXICO
32.668111°, -103.604005°



FIGURE 6

APPENDIX A

CARMONA RESOURCES



Table 1
Delek Logistics
Mescalero (11.07.2024)
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						
S-1	11/13/2024	0-1'	108	1,110	183	1,401	<0.050	0.406	1.97	3.72	6.09	544
	"	1.5'	63.0	674	112	849	<0.050	0.126	0.269	0.485	0.880	944
	"	2.0'	11.1	273	47.5	332	<0.050	0.101	0.32400	0.669	1.09	64.0
	"	3.0'	104	1,090	191	1,385	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	4.0'	64.8	701	114	880	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	5.0'	11.6	270	42.3	324	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	6.0'	<10.0	14.9	<10.0	14.9	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	7.0'	<10.0	11.6	<10.0	11.6	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
S-2	11/13/2024	0-1'	6,700	12,500	1,980	21,180	51.4	348	215	311	925	32.0
	"	1.5'	22.6	40.2	<10.0	62.8	1.21	3.83	2.15	3.01	10.2	16.0
	"	2.0'	27.9	34.1	<10.0	62.0	2.01	9.994	6.04	8.65	26.6	32.0
	"	3.0'	25.2	41.1	<10.0	66.3	4.55	25.1	15.5	22.3	67.4	48.0
	"	4.0'	<10.0	59.6	<10.0	59.6	<0.050	0.337	0.376	0.640	1.35	16.0
	"	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	0.228	0.319	0.549	1.10	16.0
	"	6.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	7.0'	22.6	189	22.1	234	<0.050	0.204	0.218	0.418	0.84	32.0
T-1	11/19/2024	1.0'	<10.0	108	18.6	127	<0.050	0.102	0.221	0.451	0.774	32.0
	"	2.0'	18.9	35.6	<10.0	55.0	0.569	1.31	0.744	1.13	3.75	<16.0
	"	3.0'	<10.0	<10.0	<10.0	<10.0	0.222	0.53	0.33	0.625	1.71	16.0
	"	4.0'	898	1,930	359	3,187	15.4	104	74.8	113	306	32.0
	"	5.0'	<10.0	28.8	<10.0	28.8	<0.050	0.135	0.102	<0.150	0.356	96.0
	"	6.0'	<10.0	45.4	<10.0	45.4	<0.050	0.328	0.347	0.572	1.25	64.0
	"	7.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	8.0'	<10.0	39.8	<10.0	40.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
S-3	11/13/2024	0-1'	7,100	15,000	2,490	24,590	39.0	334	235	350	958	16.0
	"	1.5'	36.6	138	<10.0	175	1.63	6.79	4.75	7.28	20.4	16.0
	"	2.0'	<10.0	15.4	<10.0	15.4	0.278	0.601	0.184	0.245	1.31	32.0
	"	3.0'	27.6	134	<10.0	162	0.174	1.90	2.48	4.38	8.93	32.0
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	0.230	0.376	0.648	1.25	16.0
	"	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	6.0'	11.5	74.0	<10.0	85.5	<0.050	0.730	1.17	2.07	3.97	32.0
	"	7.0'	<10.0	46.9	<10.0	46.9	<0.050	<0.050	<0.050	<0.150	<0.300	240
T-2	11/19/2024	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	3.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	6.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	7.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,710
	"	8.0'	<10.0	<10.0	<10.0	<10.0	0.091	1.29	1.33	2.09	4.80	416
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) Sample Point
 (T) Test Trench
 Removed
 Deferment Area

Table 1
Delek Logistics
Mescalero (11.07.2024)
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						
S-4	11/13/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	3.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
S-5	11/13/2024	0-1'	<10.0	18.7	<10.0	18.7	<0.050	<0.050	<0.050	<0.150	<0.300	1,440
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,240
	"	2.0'	<10.0	57.8	<10.0	57.8	<0.050	<0.050	<0.050	<0.150	<0.300	2,200
	"	3.0'	<10.0	50.3	<10.0	50.3	<0.050	<0.050	<0.050	<0.150	<0.300	1,780
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
S-6	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	0.5-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
S-7	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-1	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
H-2	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
H-3	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-4	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-5	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-6	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<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

(S) Sample Point

(H) Horizontal Sample

Removed

Table 2
Delek Logistics
Mescalero (11.07.2024)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-2	11/19/2024	0.5'	<10.0	112	26.8	139	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	11/21/2024	0.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.98
CS-3	11/19/2024	0.5'	<10.0	37.8	<10.0	37.8	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-4	11/19/2024	0.5'	<10.0	23.8	<10.0	23.8	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-5	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-6	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-7	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-8	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-9	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-10	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-11	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-12	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-13	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-14	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-15	11/19/2024	0.5'	<10.0	46.2	<10.0	46.2	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-16	11/19/2024	0.5'	<10.0	77.0	<10.0	77.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-17	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-18	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-19	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-20	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-21	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-22	11/19/2024	0.5'	<10.0	37.4	<10.0	37.4	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-23	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-24	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-25	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-26	11/19/2024	1.0'	<10.0	98.2	13.0	111	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-27	11/19/2024	1.0'	359	1,150	165	1,674	0.138	10.1	17.4	31.0	58.5	64.0
CS-28	11/19/2024	1.0'	387	1,030	117	1,534	2.28	26.9	33.0	46.5	109	112
CS-29	11/19/2024	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-30	11/19/2024	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-31	11/19/2024	5.5'	<10.0	<10.0	<10.0	<10.0	<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
 Deferment Area
 Removed

Table 2
Delek Logistics
Mescalero (11.07.2024)
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	11/19/2024	0.5'	<10.0	16.6	<10.0	16.6	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-3	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-4	11/19/2024	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	11/19/2024	1.0'	11.9	68.8	<10.0	80.7	<0.050	<0.050	0.154	0.786	0.94	64.0
SW-6	11/19/2024	1.0'	<10.0	31.5	<10.0	31.5	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-7	11/19/2024	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-8	11/19/2024	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-9	11/19/2024	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-10	11/19/2024	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-11	11/19/2024	5.5'	<10.0	<10.0	<10.0	<10.0	<0.050	0.068	<0.050	<0.150	<0.300	112
Smith Ranch Pit	12/6/2024	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.068	<0.050	<0.150	<0.300	289
<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

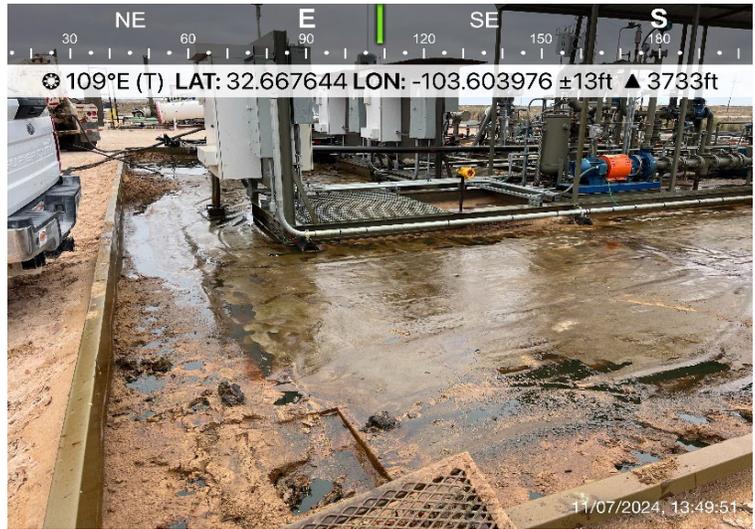
Delek Logistics Company

Photograph No. 1

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View East, area of the lined containment prior to being cleaned.

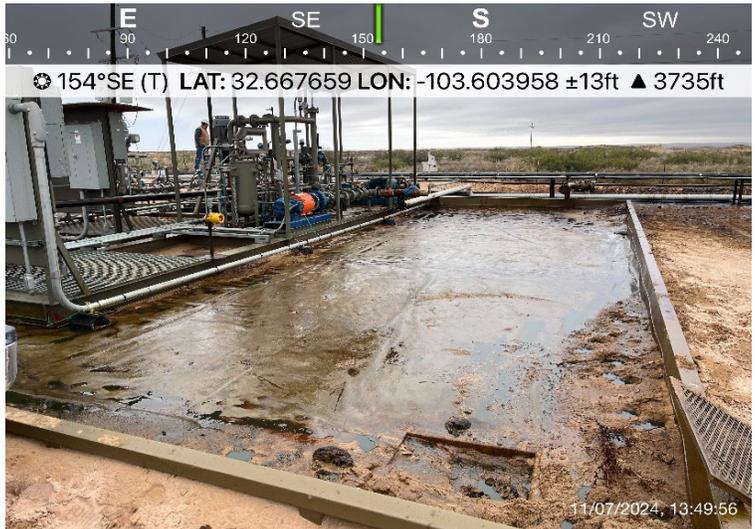


Photograph No. 2

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View Southeast, area of the lined containment prior to being cleaned.



Photograph No. 3

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View Southeast, area of the release before remediation.



PHOTOGRAPHIC LOG

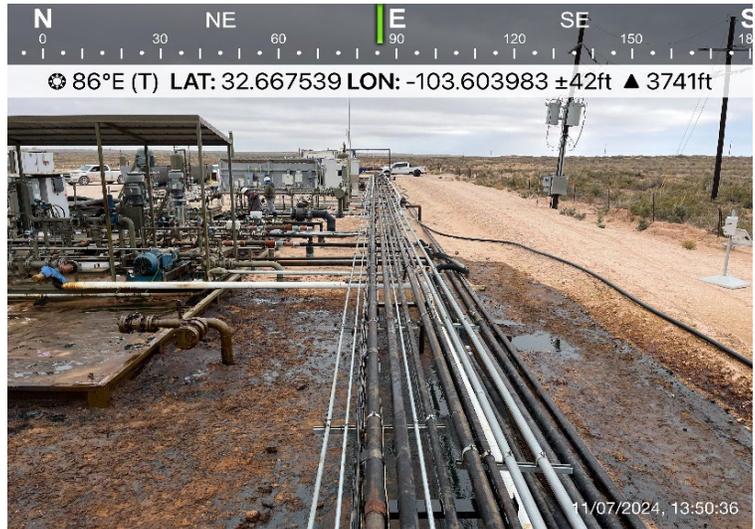
Delek Logistics Company

Photograph No. 4

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View East, area of the release before remediation.



Photograph No. 5

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View Southwest, area of the release before remediation.

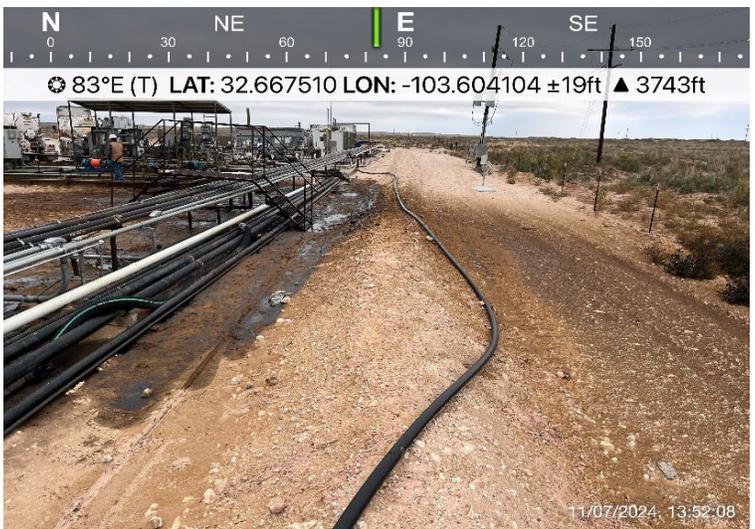


Photograph No. 6

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View East, area of the release before remediation.



PHOTOGRAPHIC LOG

Delek Logistics Company

Photograph No. 7

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View East, area of the release before remediation.



Photograph No. 8

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View South of the intact liner after it was thoroughly cleaned. Red outline is the area of the liner inspection.



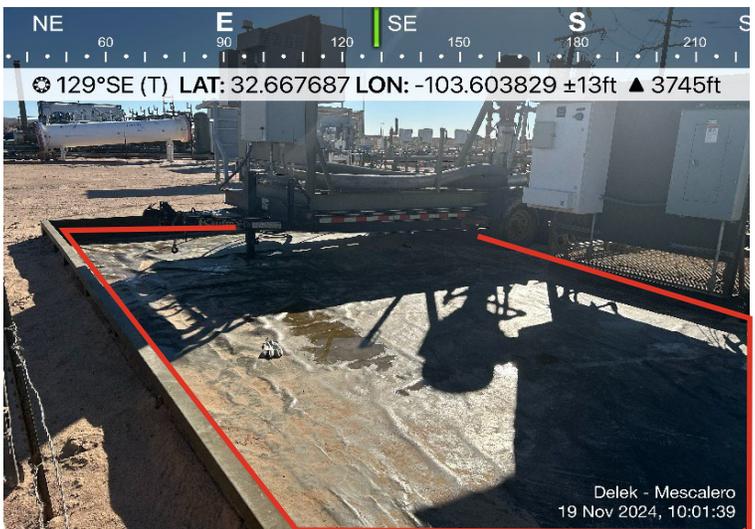
Photograph No. 9

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Southeast of the intact liner after it was thoroughly cleaned. Red outline is the area of the liner inspection.



PHOTOGRAPHIC LOG

Delek Logistics Company

Photograph No. 10

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Southeast of the intact liner after it was thoroughly cleaned. Red outline is the area of the liner inspection.



Photograph No. 11

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View South of the intact liner after it was thoroughly cleaned. Red outline is the area of the liner inspection.



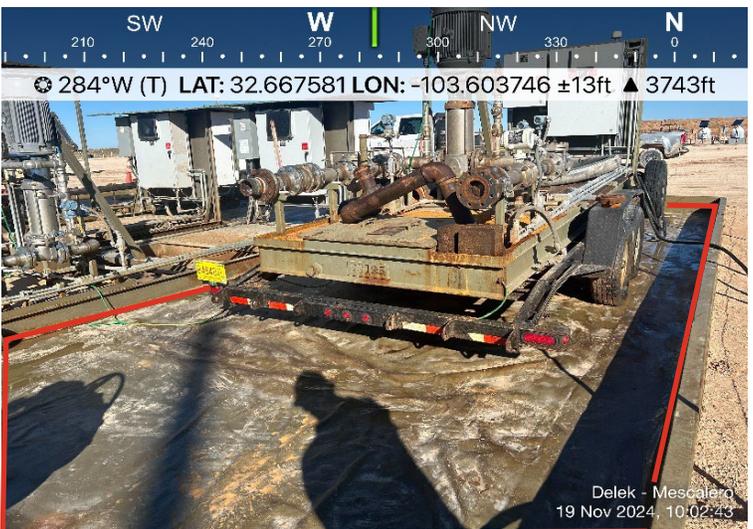
Photograph No. 12

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View West of the intact liner after it was thoroughly cleaned. Red outline is the area of the liner inspection.



PHOTOGRAPHIC LOG

Delek Logistics Company

Photograph No. 13

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View North of the intact liner after it was thoroughly cleaned. Red outline is the area of the liner inspection.



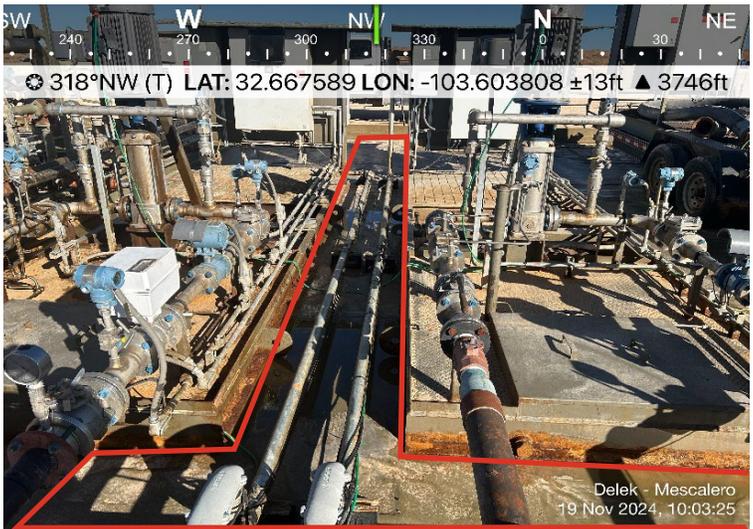
Photograph No. 14

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Northwest of the intact liner after it was thoroughly cleaned. Red outline is the area of the liner inspection.



Photograph No. 15

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Northwest of the intact liner after it was thoroughly cleaned. Red outline is the area of the liner inspection.



PHOTOGRAPHIC LOG

Delek Logistics Company

Photograph No. 16

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Southwest, area of the surface scrapped area of S-5.



Photograph No. 17

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Southwest, area of CS-1 through CS-25.



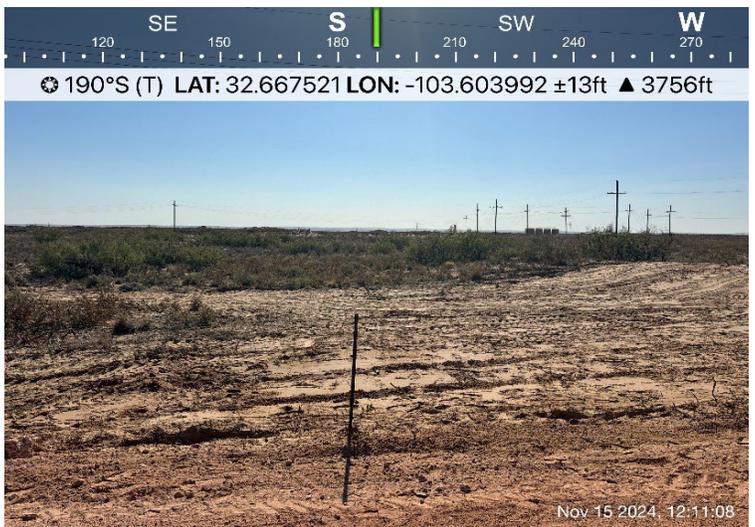
Photograph No. 18

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Southwest, area of CS-1 through CS-25.



PHOTOGRAPHIC LOG

Delek Logistics Company

Photograph No. 19

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View Southwest, area of CS-26 through CS-28.

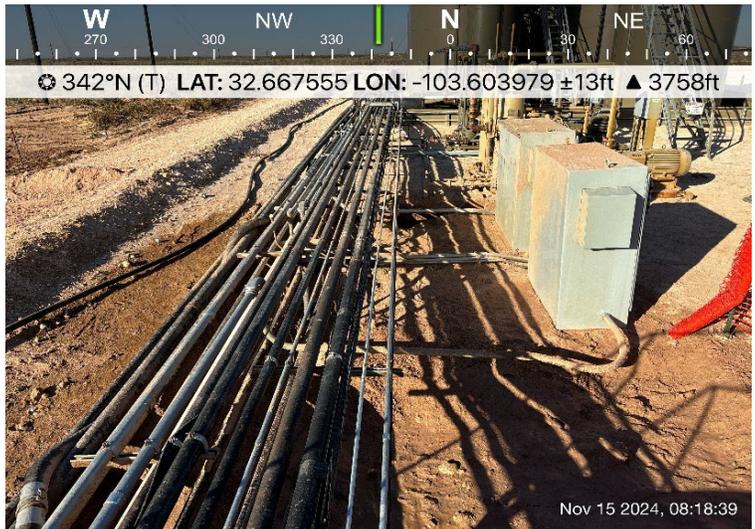


Photograph No. 20

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View North, area of CS-26 through CS-28.

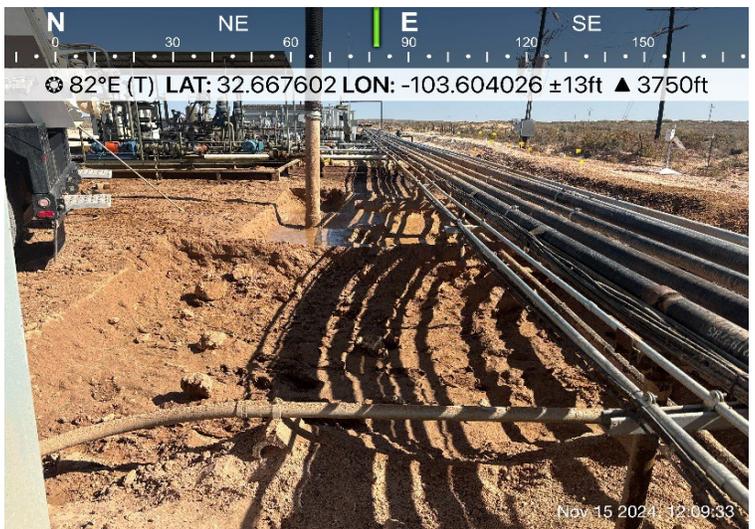


Photograph No. 21

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View East, area of CS-26 through CS-28.



PHOTOGRAPHIC LOG

Delek Logistics Company

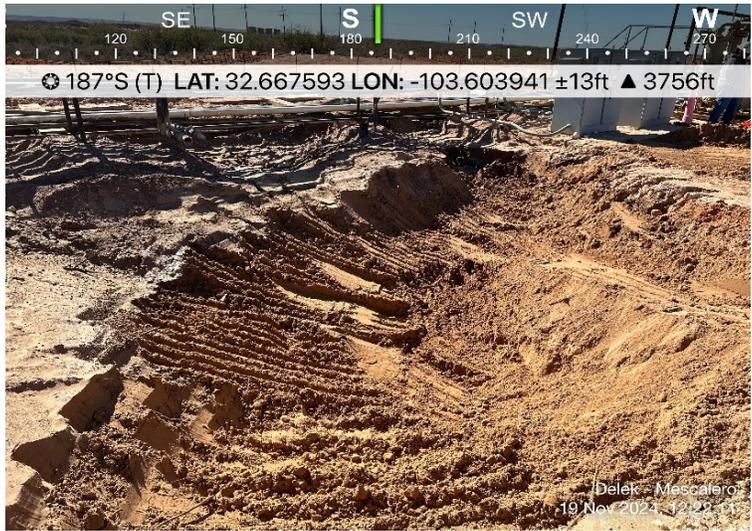
Photograph No. 22

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View South, area of CS-29 through CS-31.



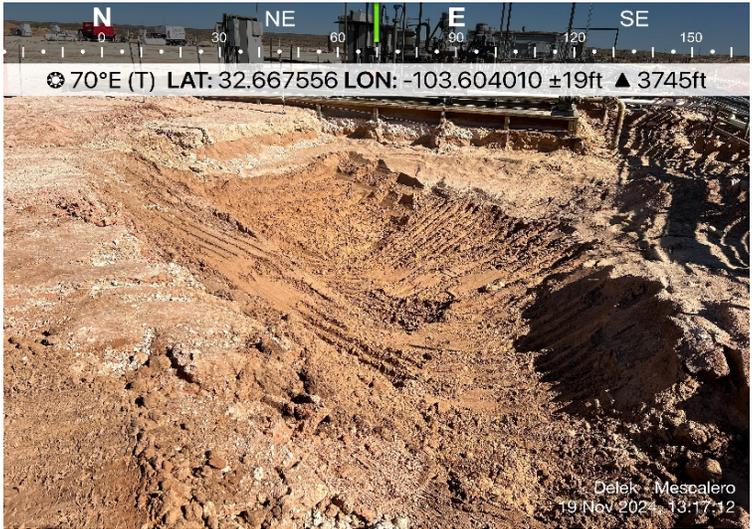
Photograph No. 23

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View East, area of CS-29 through CS-31.



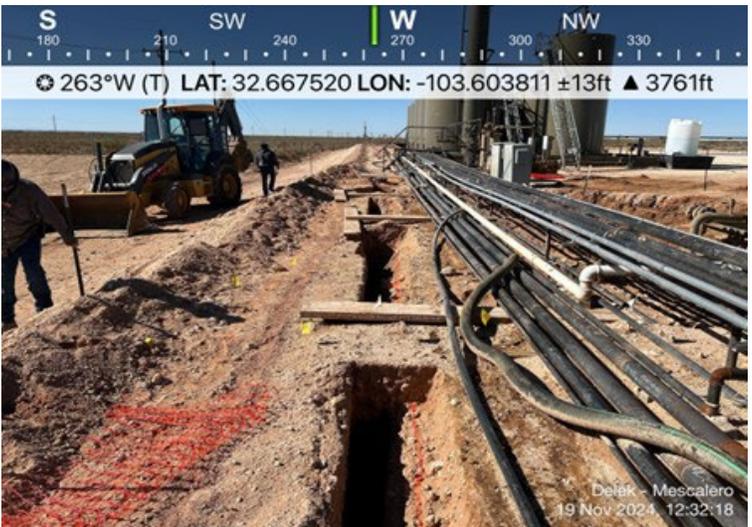
Photograph No. 24

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View West, area of T-1 & T-2, used for deferral.



PHOTOGRAPHIC LOG

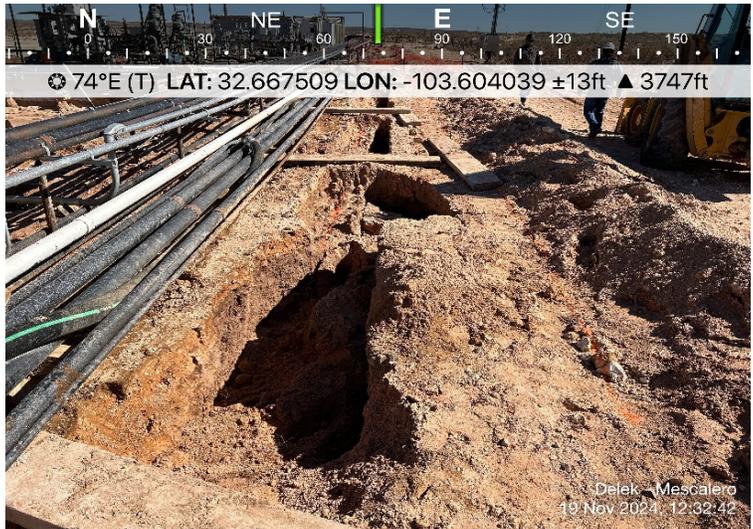
Delek Logistics Company

Photograph No. 25

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View East, area of T-1 & T-2, used for deferral.

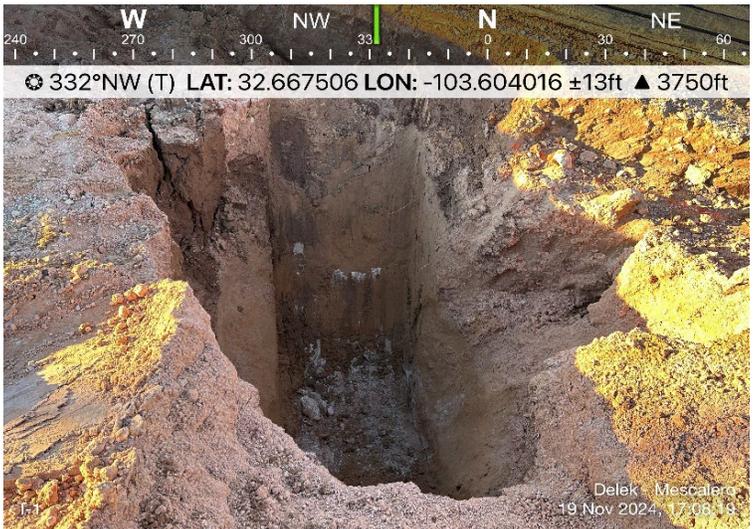


Photograph No. 26

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View Northwest, area of S-2/T-1.



Photograph No. 27

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View West, area of S-3/T-2.



PHOTOGRAPHIC LOG

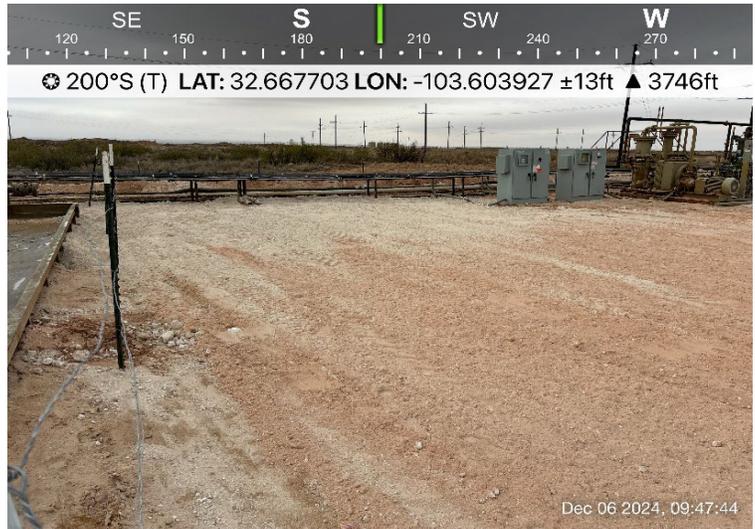
Delek Logistics Company

Photograph No. 28

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View South, area of backfilled remediation area.



Photograph No. 29

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View South, area of backfilled remediation area.



Photograph No. 30

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View Southwest, area of backfilled remediation area.



PHOTOGRAPHIC LOG

Delek Logistics Company

Photograph No. 31

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View Southeast, area of backfilled remediation area.

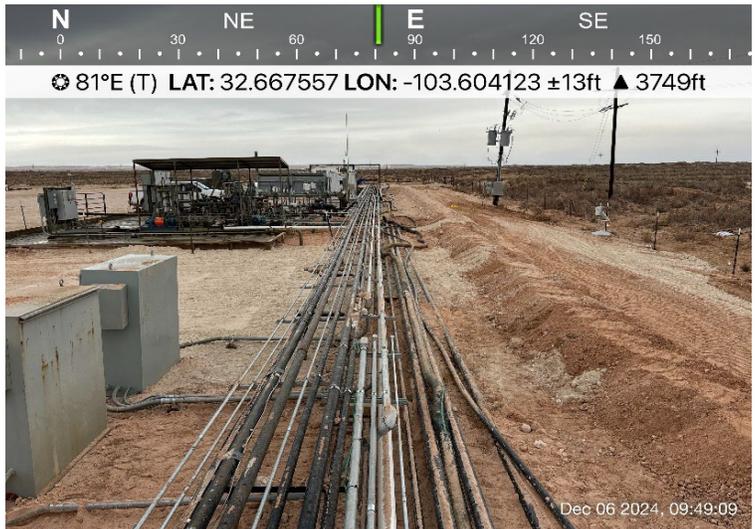


Photograph No. 32

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View East, area of backfilled remediation area.

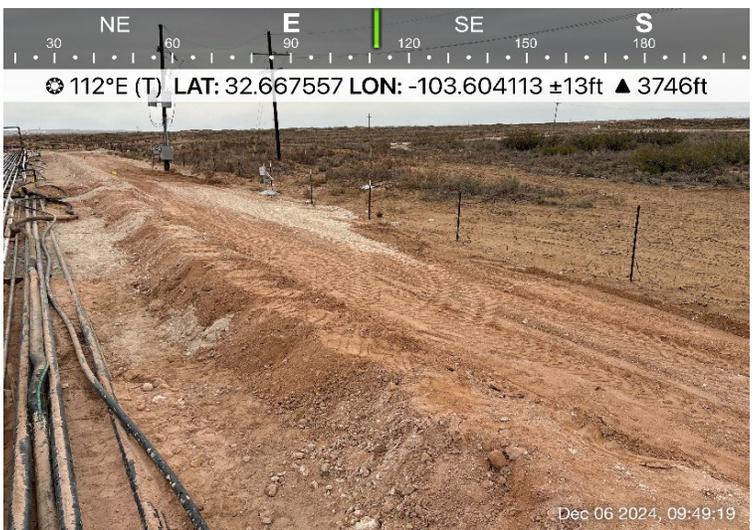


Photograph No. 33

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View East, area of backfilled remediation area.



PHOTOGRAPHIC LOG

Delek Logistics Company

Photograph No. 34

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View Northwest, area of backfilled remediation area.

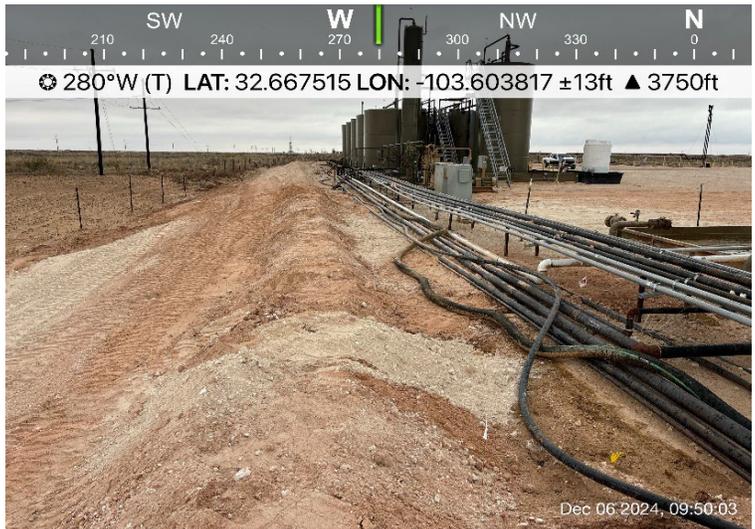


Photograph No. 35

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
View West, area of backfilled remediation area.

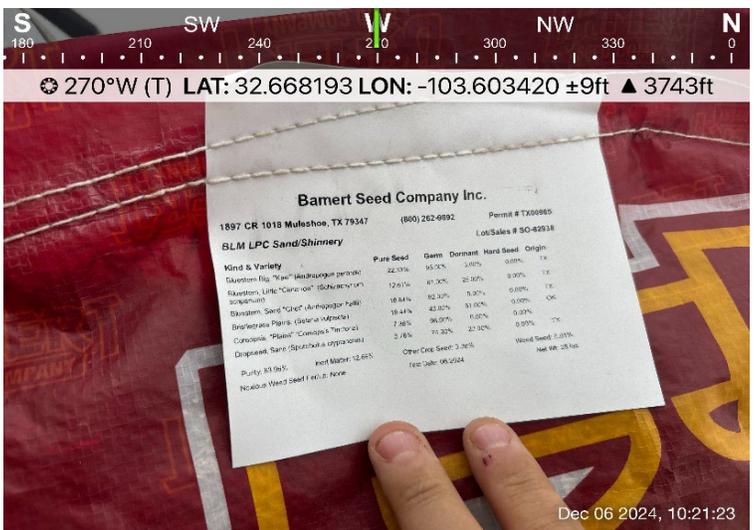


Photograph No. 36

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:
BLM LPC Seed mix used for reseedling of the pasture.



PHOTOGRAPHIC LOG

Delek Logistics Company

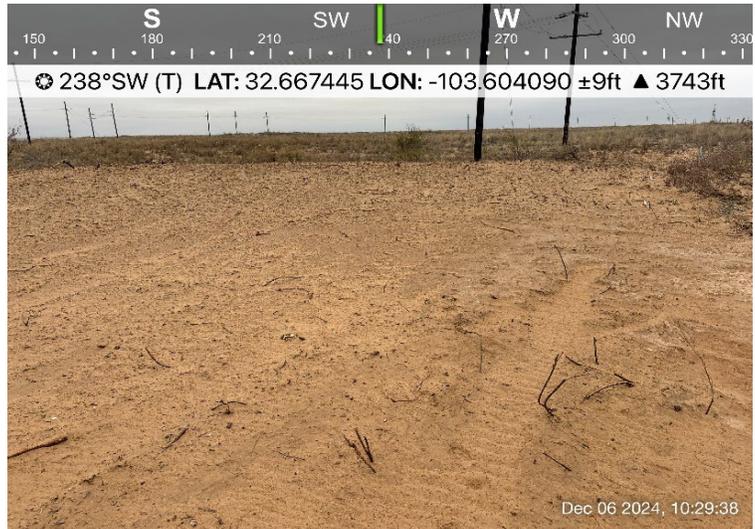
Photograph No. 37

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Southwest, area of backfilled and in the process of being reseeded.



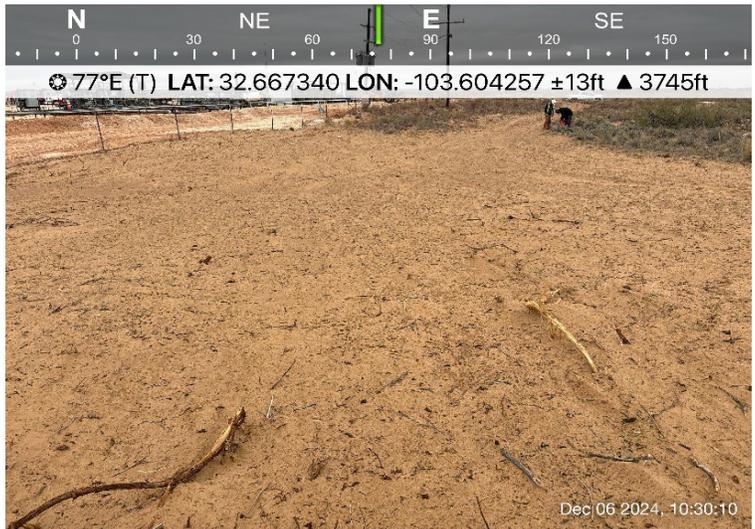
Photograph No. 38

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View East, area of backfilled and in the process of being reseeded.



Photograph No. 39

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Northeast, area of backfilled and in the process of being reseeded.



PHOTOGRAPHIC LOG

Delek Logistics Company

Photograph No. 40

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View Southeast, area of backfilled and in the process of being reseeded.



Photograph No. 41

Facility: Mescalero (11.07.2024)

County: Lea County, New Mexico

Description:

View North, area of backfilled and in the process of being reseeded.



APPENDIX C

CARMONA RESOURCES



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

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

QUESTIONS

Action 400647

QUESTIONS

Operator: DKL Energy - Cottonwood, LLC 12700 Park Central Dr., Ste. 7 Dallas, TX 75251	OGRID: 330291
	Action Number: 400647
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Mescalero
Date Release Discovered	11/07/2024
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Normal Operations Valve Crude Oil Released: 23 BBL Recovered: 21 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 400647

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 12700 Park Central Dr., Ste. 7 Dallas, TX 75251	OGRID: 330291
	Action Number: 400647
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

ACKNOWLEDGMENTS

Action 400647

ACKNOWLEDGMENTS

Operator: DKL Energy - Cottonwood, LLC 12700 Park Central Dr., Ste. 7 Dallas, TX 75251	OGRID: 330291
	Action Number: 400647
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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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 400647

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 12700 Park Central Dr., Ste. 7 Dallas, TX 75251	OGRID: 330291
	Action Number: 400647
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
cassiewhitefield	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	11/8/2024

Site map

Mescalero (11.07.2024)
NAPP2431326911
32.668111,-103.604005

Legend

-  Overspray Area
-  Secondary Containment

20 bbl recovered from the containment area
3 bbl recovered from the overspray area outside of the containment



2:38

LTE 

 Back

Square/Rectangle Contained Spill with Vessel Displacement

Mescalero (11.07.2024)

L(Ft)

W(Ft)

D(In)

Oil %

50

35

0.77

100

Tank Size (Ft)

Tank Count

0

0



H2O Spill Before Disp: 0.00

Tank Displacement Vol: 0.00

Oil Spill Total: 20.00

H2O Spill Total: 0.00

Total Bbls Spilled: 20.00

Total Gals Spilled: 839.94

Screenshot for future reference!

2:39

LTE

< SVC-Pro

Saturated Soil Calculation

Mescalero (11.07.2024)

L(Ft)

W(Ft)

D(In)

Oil %

100

80

.18

100



Soil Definitions



SOIL TYPE FACTOR

0.08

0.14

0.16

0.25

0.15

H2O Spill Total: 0.00 Bbls

Oil Spill Total: 2.99 Bbls

Total Spilled: 2.99 Bbls

Total Spilled: 125.66 Gals

Screenshot for future reference!

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 403457

QUESTIONS

Operator: DKL Energy - Cottonwood, LLC 12700 Park Central Dr., Ste. 7 Dallas, TX 75251	OGRID: 330291
	Action Number: 403457
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2431326911
Incident Name	NAPP2431326911 Mescalero @ 0
Incident Type	Oil Release
Incident Status	Notification Accepted

Location of Release Source	
Site Name	Mescalero
Date Release Discovered	11/07/2024
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,800
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/18/2024
Time sampling will commence	03:00 PM
Please provide any information necessary for observers to contact samplers	Carmona Resources - 432-813-8988
Please provide any information necessary for navigation to sampling site	32.668111,-103.604005 - GPS coordinates. Remediation on southside of well pad. Will begin sampling Monday (11.18.2024) through Friday (11.22.2024)

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

CONDITIONS

Action 403457

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 12700 Park Central Dr., Ste. 7 Dallas, TX 75251	OGRID: 330291
	Action Number: 403457
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cassiewhitefield	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/14/2024

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

QUESTIONS

Action 403537

QUESTIONS

Operator: DKL Energy - Cottonwood, LLC 12700 Park Central Dr., Ste. 7 Dallas, TX 75251	OGRID: 330291
	Action Number: 403537
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2431326911
Incident Name	NAPP2431326911 MESCALERO @ 0
Incident Type	Oil Release
Incident Status	Notification Accepted

Location of Release Source	
Site Name	Mescalero
Date Release Discovered	11/07/2024
Surface Owner	Federal

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	1,700
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	11/19/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Carmona Resources - 432-813-8988
Please provide any information necessary for navigation to liner inspection site	32.668111,-103.604005 Containment will be power washed and all fluids will be removed by 11.19.2024.

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State of New Mexico
Energy, Minerals and Natural Resources
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CONDITIONS

Action 403537

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 12700 Park Central Dr., Ste. 7 Dallas, TX 75251	OGRID: 330291
	Action Number: 403537
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
cassiewhitefield	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	11/14/2024

Assessment map

Delek Logistics
Mescalero (11.07.2024)
nAPP2431326911
32.668111,-103.604005

Legend

- Earth Berm
- Electrical Panel
- Facility Equipment
- Fence
- Heavily Saturated Area of Concern
- Horizontal Sample
- Overhead Electrical Line
- Overspray Area
- Secondary Containment
- Soil Sample
- Surface Electrical Line
- Surface Polyline
- Surface Steel Line

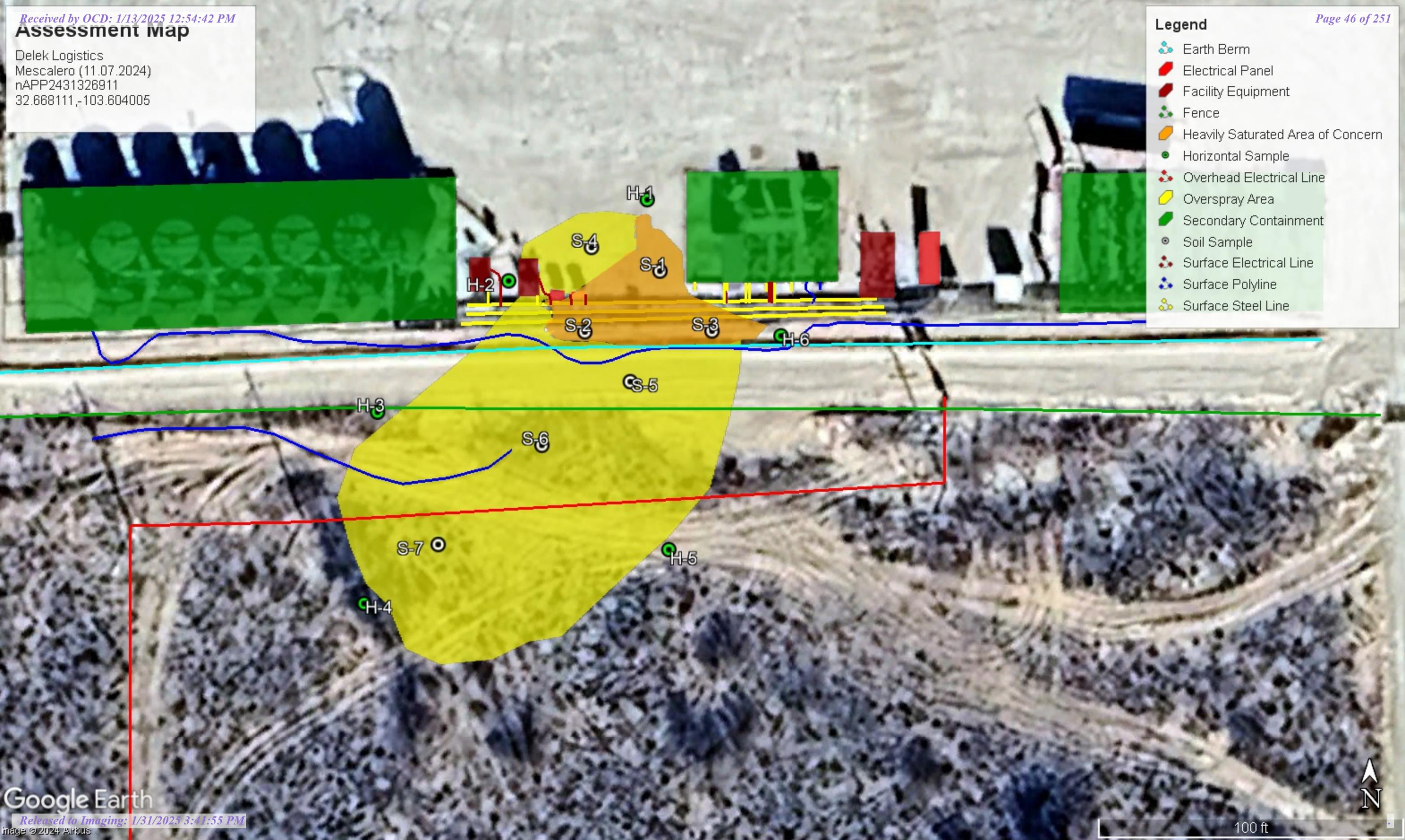


Table 1
Delek Logistics
Mescalero (11.07.2024)
Lea County, New Mexico

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						
S-1	11/13/2024	0-1'	108	1,110	183	1,401	<0.050	0.406	1.97	3.72	6.09	544
	"	1.5'	63.0	674	112	849	<0.050	0.126	0.269	0.485	0.880	944
	"	2.0'	11.1	273	47.5	332	<0.050	0.101	0.32400	0.669	1.09	64.0
	"	3.0'	104	1,090	191	1,385	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	4.0'	64.8	701	114	880	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	5.0'	11.6	270	42.3	324	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	6.0'	<10.0	14.9	<10.0	14.9	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	7.0'	<10.0	11.6	<10.0	11.6	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	8.0'	<10.0	19.5	<10.0	19.5	<0.050	<0.050	0.097	0.246	0.343	48.0
"	9.0'	<10.0	22.6	<10.0	22.6	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
S-2	11/13/2024	0-1'	6,700	12,500	1,980	21,180	51.4	348	215	311	925	32.0
	"	1.5'	22.6	40.2	<10.0	62.8	1.21	3.83	2.15	3.01	10.2	16.0
	"	2.0'	27.9	34.1	<10.0	62.0	2.01	9.994	6.04	8.65	26.6	32.0
	"	3.0'	25.2	41.1	<10.0	66.3	4.55	25.1	15.5	22.3	67.4	48.0
	"	4.0'	<10.0	59.6	<10.0	59.6	<0.050	0.337	0.376	0.640	1.35	16.0
	"	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	0.228	0.319	0.549	1.10	16.0
	"	6.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	7.0'	22.6	189	22.1	234	<0.050	0.204	0.218	0.418	0.84	32.0
"	7.5'R	12.6	174	22.8	209	0.075	0.313	0.219	0.439	1.05	32.0	
S-3	11/13/2024	0-1'	7,100	15,000	2,490	24,590	39.0	334	235	350	958	16.0
	"	1.5'	36.6	138	<10.0	175	1.63	6.79	4.75	7.28	20.4	16.0
	"	2.0'	<10.0	15.4	<10.0	15.4	0.278	0.601	0.184	0.245	1.31	32.0
	"	3.0'	27.6	134	<10.0	162	0.174	1.90	2.48	4.38	8.93	32.0
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	0.230	0.376	0.648	1.25	16.0
	"	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	6.0'	11.5	74.0	<10.0	85.5	<0.050	0.730	1.17	2.07	3.97	32.0
	"	7.0'	<10.0	46.9	<10.0	46.9	<0.050	<0.050	<0.050	<0.150	<0.300	240
"	7.5' R	<10.0	160	18.2	178	<0.050	0.096	0.214	0.545	0.855	480	
S-4	11/13/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	3.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
S-5	11/13/2024	0-1'	<10.0	18.7	<10.0	18.7	<0.050	<0.050	<0.050	<0.150	<0.300	1,440
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,240
	"	2.0'	<10.0	57.8	<10.0	57.8	<0.050	<0.050	<0.050	<0.150	<0.300	2,200
	"	3.0'	<10.0	50.3	<10.0	50.3	<0.050	<0.050	<0.050	<0.150	<0.300	1,780
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	5.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
S-6	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	0.5-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
S-7	11/13/2024	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<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	



Chloride impact believed to be from NAPP2305947643 Produced Water spill release.

(-) Not Analyzed
^A - Table 1 - 19.15.29 NMAC
 mg/kg - milligram per kilogram
 TPH - Total Petroleum Hydrocarbons
 ft - feet
 (S) Sample Point
 Exceeds

Proposed Excavation Map

Delek Logistics
Mescalero (11.07.2024)
nAPP2431326911
32.668111, -103.604005

Area of S-1:
600 sqft x 5.5' = ~130 CY

Area of S-2 & S-3:
600 sqft x 8.0'+ = ~180 CY

Area of S-6 & S-7 (to remove overspray staining):
7,600 sqft x 0.25' = ~70 CY

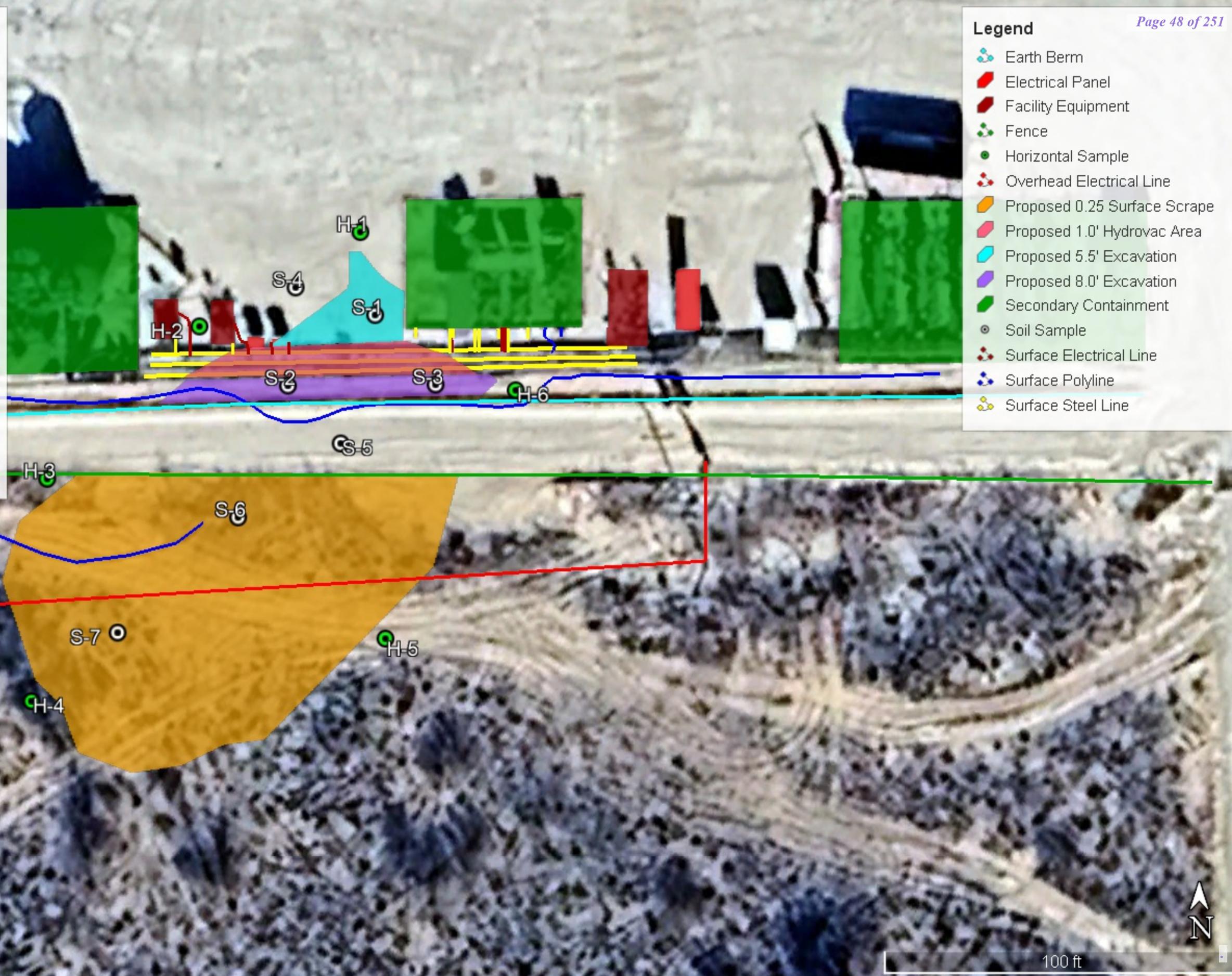
1.0' Hydrovac Area:
Hydrovac under elevated pipeline in yellow. Will defer due to safety and facility deconstruction concerns. Hydrovac'd to 7' in one area already and had cave ins under the pipe rack supports and enforced "STOP WORK AUTHORITY" due to safety concerns.

Total CY w/15% contingency: 440 CY

CY-Cubic Yards

Legend

- Earth Berm
- Electrical Panel
- Facility Equipment
- Fence
- Horizontal Sample
- Overhead Electrical Line
- Proposed 0.25 Surface Scrape
- Proposed 1.0' Hydrovac Area
- Proposed 5.5' Excavation
- Proposed 8.0' Excavation
- Secondary Containment
- Soil Sample
- Surface Electrical Line
- Surface Polyline
- Surface Steel Line

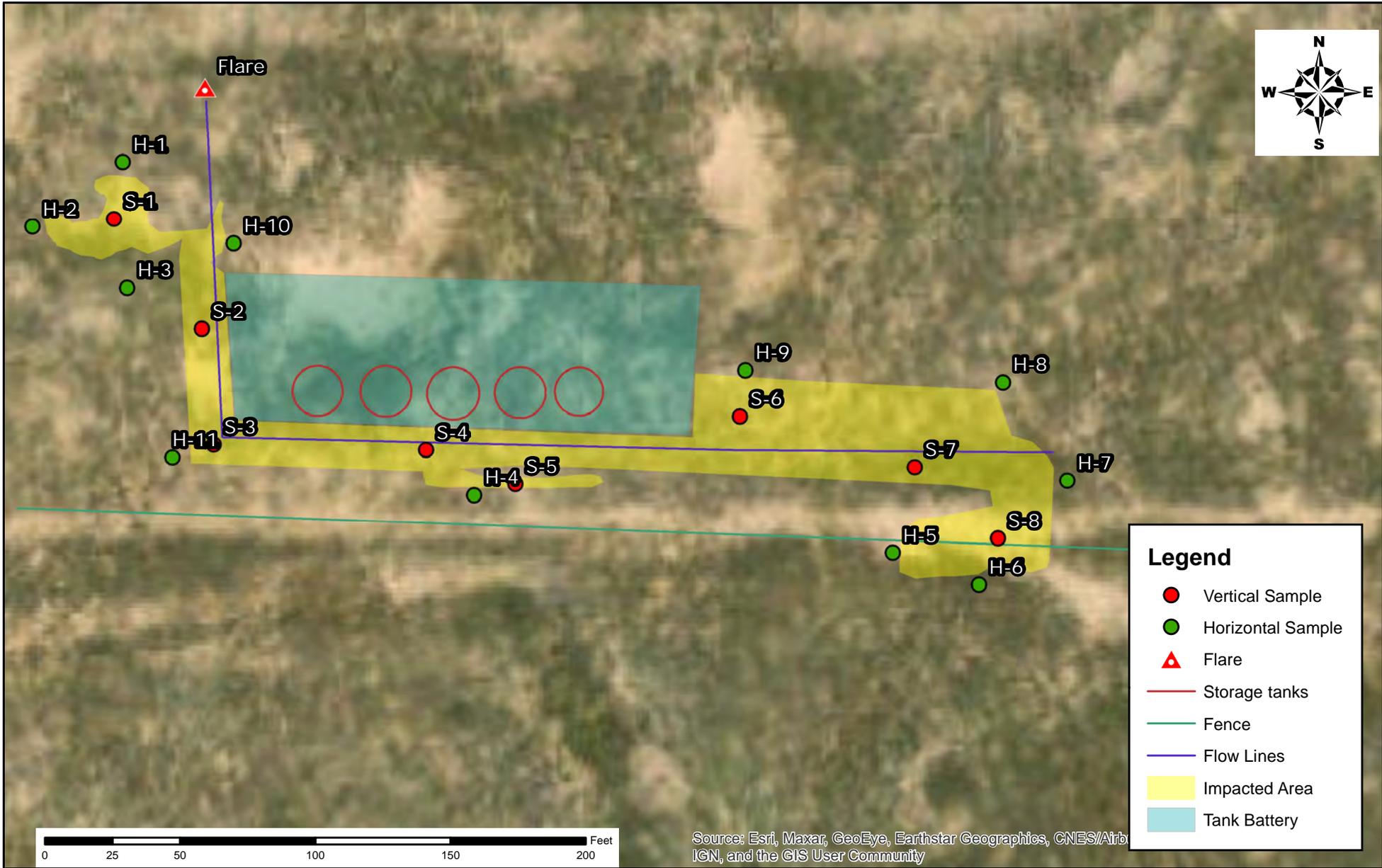


Previous Spill Incident Files

Incident ID: NAPP2305947643

Following data pulled from pages 14-22 of report found on NMOCD web portal (12/4/2023)

(<https://ocdimage.emnrd.nm.gov/imaging/IncidentFileView.aspx?incident=nAPP2305947643>)



Document Path: P:\2023 PROJECTS\EARTHSTONE\FIGURES\237067_Mescalero 7-6 1H, 2H, 3H & 4HV - Figures\GIS\Figure_3_8.5x11_map_Landscape.pxd

DRAWING NUMBER:
FIGURE 3

SHEET NUMBER:
1 of 1

SITE ASSESSMENT MAP
EARTHSTONE ENERGY
 Mescalero 7-6 1H,2H,3H and 4H
 Lea County, New Mexico
 32.667523°-103.604539°

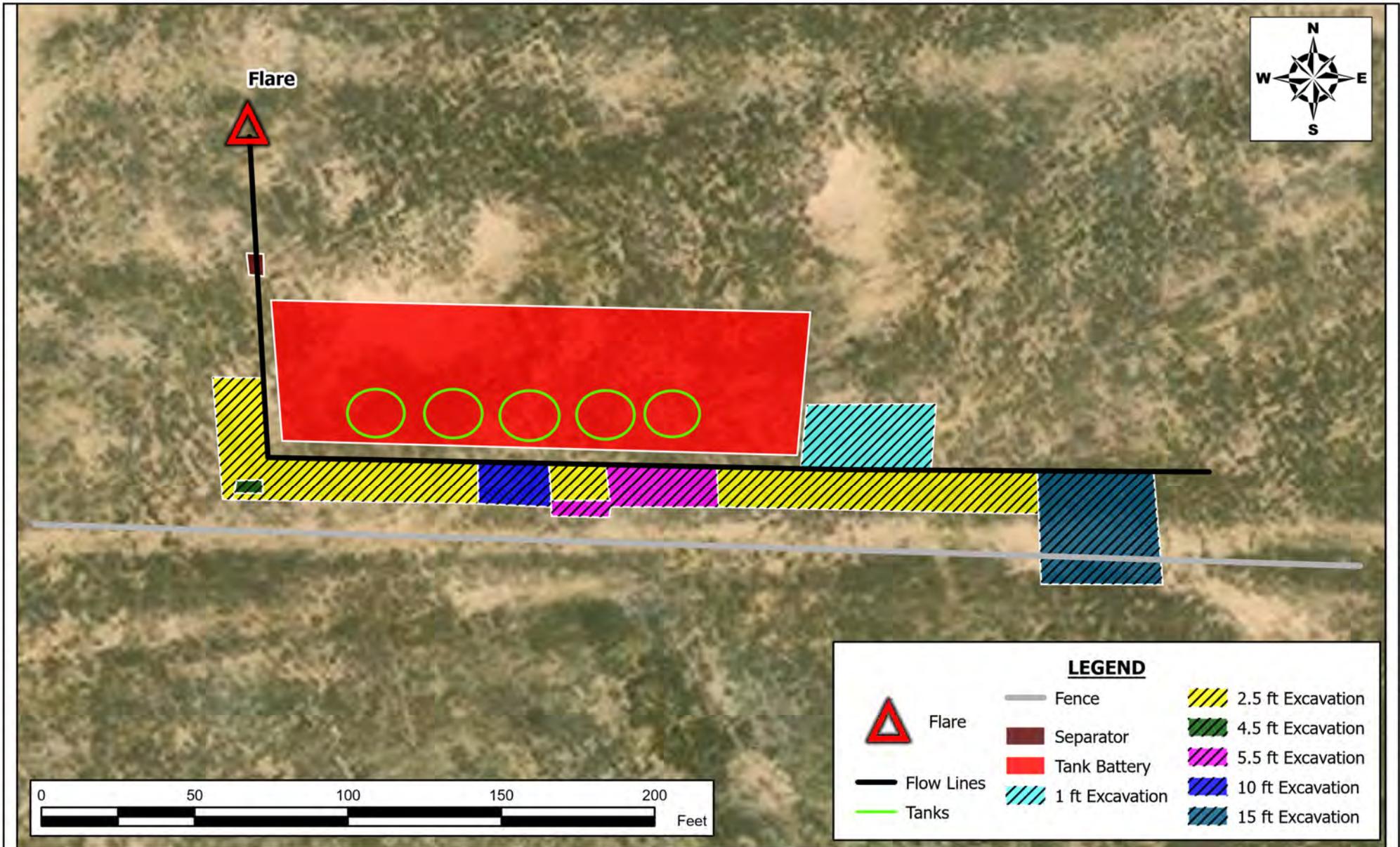
SCALE: As Shown Date: 6/2/2023 PROJECT #: 237067

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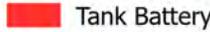


NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N



LEGEND

	Flare		Fence		2.5 ft Excavation
	Flow Lines		Separator		4.5 ft Excavation
	Tanks		Tank Battery		5.5 ft Excavation
			1 ft Excavation		10 ft Excavation
			15 ft Excavation		

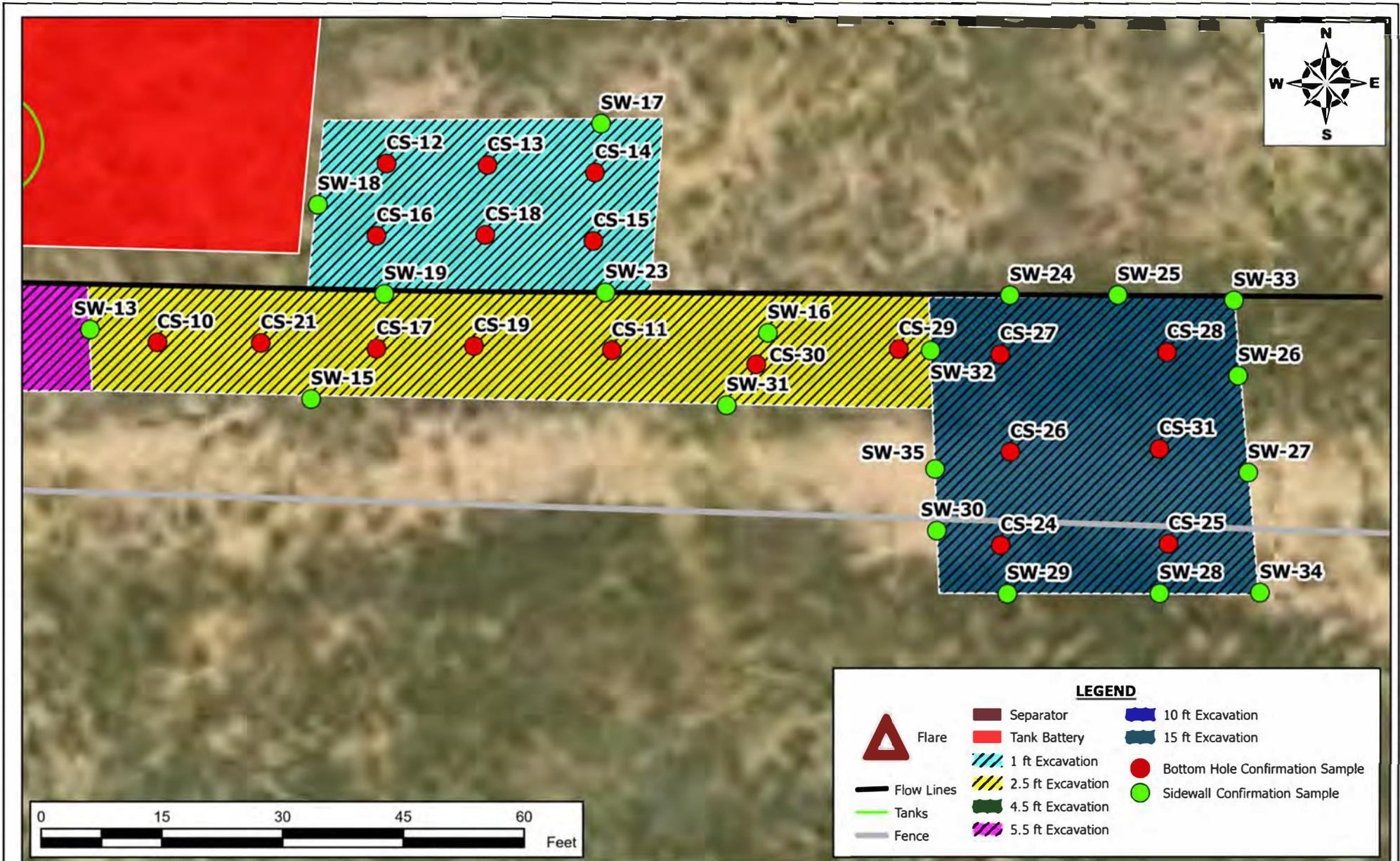
1 of 1	SHEET NUMBER	DRAWING NUMBER	FIGURE 4	<p>EXCAVATION OVERVIEW MAP EARTHSTONE OPERATING, LLC Mescalero 7-6 1H, 2H, 3H AND 4H LEA COUNTY, NEW MEXICO 32.667523, -103.604539</p>	DATE: 08/17/2023	PROJECT #: 237067
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 Web: www.ntglobal.com



NOTES:

1. Base Image: ESRI Maps and Data 2017 (DigitalGlobe 2016 0.5m Digital Orthophoto)
2. Map Projection: NAD 1983



Document Path: P:\2023 PROJECTS\EARTHSTONE\RES\237067_Mescalero 7-6 1H, 2H, 3H & 4H7 - Figure\GIS\Figure_6_ConfirmationSampleMap_08182023.aprx

1 of 1	SHEET NUMBER	DRAWING NUMBER	FIGURE 6	<p>CONFIRMATION SAMPLE MAP - EAST EARTHSTONE OPERATING, LLC Mescalero 7-6 1H, 2H, 3H AND 4H LEA COUNTY, NEW MEXICO 32.667523, -103.604539</p>	<p>DATE: 08/18/2023</p>	<p>PROJECT #: 237067</p>
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<p>New Tech Global Environmental, LLC 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntglobal.com</p>	
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NOTES:

1. Base Image: ESRI Maps and Data 2017 (DigitalGlobe 2016 0.5m Digital Orthophoto)
2. Map Projection: NAD 1983

TABLES



Table 1
Summary of Soil Analytical Data - Delineation Samples
Mescalero 7-6 1H, 2H, 3H, & 4H
Earthstone Operating, LLC
Lea, County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (mg/kg)	
								Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC					
Assessment Samples													
S-1	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
S-2	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
S-3	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	942	942	188	1130	8400
S-3	4/11/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.8	23.8	<10.0	23.8	4660
S-3	4/11/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
S-4	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	340	340	75.2	415.2	16600
S-4	4/11/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.5	36.5	<10.0	36.5	3360
S-4	4/11/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.6	64.6	<10.0	64.6	5360
S-4	4/11/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2440
S-4	4/11/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2560
S-4	4/11/2023	(5-5.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2200
S-4	4/11/2023	(6-6.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1360
S-4	4/11/2023	(7-7.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1200
S-4	4/11/2023	(8-8.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
S-5	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	122
S-6	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1400
S-6	4/11/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
S-7	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	85.5	85.5	<10.0	85.5	688
S-7	4/11/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	65.5	65.5	<10.0	65.5	3680
S-7	4/11/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	96.7	96.7	<10.0	96.7	2080
S-7	4/11/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.6	11.6	<10.0	11.6	2400
S-7	4/11/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2200
S-7	4/11/2023	(5-5.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2400
S-7	4/11/2023	(6-6.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2640
S-7	4/11/2023	(7-7.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2560
S-7	4/11/2023	(8-8.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2680
S-7	4/11/2023	(9-9.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6800
S-7	4/11/2023	(10-10.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2520
S-7	4/11/2023	(11-11.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
S-8	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	209	209	28.1	237.1	3320
S-8	4/11/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1920
S-8	4/11/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2960
S-8	4/11/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3400
S-8	4/11/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3280
S-8	4/11/2023	(5-5.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3760
S-8	4/11/2023	(6-6.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8080
S-8	4/11/2023	(7-7.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4400
S-8	4/11/2023	(8-8.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3200
S-8	4/11/2023	(9-9.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1250
S-8	4/11/2023	(10-10.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
S-8	4/11/2023	(11-11.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
H-1	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
H-2	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
H-3	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208

Table 1
Summary of Soil Analytical Data - Delineation Samples
Mescalero 7-6 1H, 2H, 3H, & 4H
Earthstone Operating, LLC
Lea, County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (mg/kg)	
								Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC					
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
H-4	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
H-5	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
H-6	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
H-7	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
H-8	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
H-9	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
H-10	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
H-11	4/11/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
H-12	5/10/2023	6"	<0.500	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
H-13	5/10/2023	6"	<0.500	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
H-14	5/10/2023	6"	<0.500	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

Notes:

- 1. Values reported in mg/kg
- 2. < = Value Less Than Reporting Limit (RL)
- 3. Bold indicates Analyte Detected
- 4. BTEX analyses by EPA Method SW 8021B
- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
- 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
- 9. --- Not Analyzed

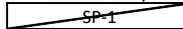
 Sample Point Excavated

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Mescalero 7-6 1H, 2H, 3H, & 4H
Earthstone Operating, LLC
Lea, County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (mg/kg)	
								Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC					
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	---	100 mg/kg	600 mg/kg		
Confirmation Bottom Hole Samples													
CS-1	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-2	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
CS-3	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	656
CS-3A	6/2/2023	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-4	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-5	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS-6	5/10/2023	10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-7	5/10/2023	10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
CS-8	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-9	5/10/2023	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
CS-10	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-11	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-12	5/10/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-13	5/10/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-14	5/10/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
CS-15	5/10/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-16	5/10/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-17	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-18	5/10/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-19	5/10/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
CS-20	6/2/2023	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
CS-21	6/2/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.2	16.2	<10.0	16.2	64
CS-22	6/2/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-23	6/2/2023	5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
CS-24	6/6/2023	15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
CS-25	6/6/2023	15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-26	6/6/2023	15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS-27	6/6/2023	15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
CS-28	6/6/2023	15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
CS-29	6/6/2023	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-30	6/6/2023	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
CS-31	6/12/2023	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
CS-32	6/12/2023	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-33	6/12/2023	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
Confirmation Sidewall Samples													
SW-1	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-2	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SW-3	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-4	5/10/2023	2.5'-10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	<10.0	<10.0	192
SW-5	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-6	5/10/2023	0'-10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW-7	5/10/2023	2.5'-10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
SW-8	5/10/2023	0'-10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW-9	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208

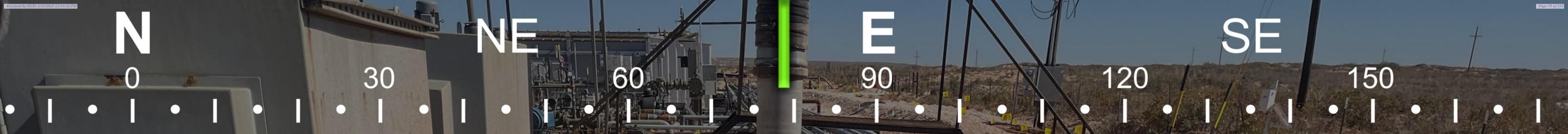
Table 2
Summary of Soil Analytical Data - Confirmation Samples
Mescalero 7-6 1H, 2H, 3H, & 4H
Earthstone Operating, LLC
Lea, County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH					Chloride (mg/kg)	
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	GRO + DRO (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (mg/kg)		
								10 mg/kg	---	---	---	50 mg/kg		---
SW-10	5/10/2023	2.5'-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-11	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	832
SW-11A	6/2/2023	0-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-12	5/10/2023	0-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-13	5/10/2023	2.5'-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-14	5/10/2023	0-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-15	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-16	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-17	5/10/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-18	5/10/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-19	5/10/2023	1'-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	384
SW-20	5/10/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-21	6/2/2023	2.5'-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-22	6/2/2023	2.5'-5.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-23	6/6/2023	1'-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-24	6/6/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	256.0
SW-25	6/6/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144.0
SW-26	6/6/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	576.0
SW-27	6/6/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	112.0
SW-28	6/6/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-29	6/6/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	112.0
SW-30	6/6/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-31	6/6/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-32	6/6/2023	2.5'-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-33	6/12/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	114.0
SW-34	6/12/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144.0
SW-35	6/12/2023	0-15'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	144.0
SW-36	6/12/2023	5.5'-10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	36.0

Notes:

1. Values reported in mg/kg
2. < = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. --- Not Analyzed

~~SP-1~~ Sample Point Excavated



☀ 79°E (T) LAT: 32.667525 LON: -103.604086 ±9ft ▲ 3751ft



11/14/2024, 11:54:34



☀ 134°SE (T) LAT: 32.667522 LON: -103.604054 ±13ft ▲ 3746ft



11/14/2024, 11:48:11

Ashton Thielke

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Monday, January 13, 2025 11:33 AM
To: Ashton Thielke
Subject: RE: [EXTERNAL] FW: NAPP2431326911 - Delek - Mescalero 7-6 Federal (11.07.2024) - NMOCD Meeting Follow up

Message received, Thank you Ashton.

Thanks,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Ashton Thielke <ThielkeA@carmonaresources.com>
Sent: Monday, January 13, 2025 9:21 AM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: cassie.whitefield@deleklogistics.com
Subject: [EXTERNAL] FW: NAPP2431326911 - Delek - Mescalero 7-6 Federal (11.07.2024) - NMOCD Meeting Follow up

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

Good morning Scott,

Just wanted to follow up with the email below so I can get a response from you to include in our deferral report.

Thanks!

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

CARMONA RESOURCES



From: Ashton Thielke
Sent: Monday, December 16, 2024 12:28 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; cassie.whitefield@deleklogistics.com
Subject: NAPP2431326911 - Delek - Mescalero 7-6 Federal (11.07.2024) - NMOCD Meeting Follow up

Good morning Mr. Bratcher, Mr. Rogers, & Mr. Velez,

I wanted to follow up with yall from our meeting that we had on Friday, November 15, 2024 discussing the above mentioned spill incident.

We discussed the area of S-5 was inconsistent with the spill that occurred related to this spill incident. Following the site assessment that occurred on November 13, 2024, a review of the lab analytical data occurred for which some inconsistencies were found. The release documented within this report was a crude oil release from the LACT unit onsite. The contamination expected to be found from a crude oil spill are Hydrocarbons and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). During the site assessment, the area of S-5, which was more than 40 feet away from the point of release, showed elevated concentrations of Chloride contamination, which is not consistent with a crude oil spill from a LACT unit. After our meeting on November 15, 2024, it was determined that the contamination found in the area of S-5 was not consistent with this release and that Delek was not responsible for remediating that area.

We also discussed safety concerns which led to the deferral of the area of S-2 & S-3, which were later delineated by Test Trenches (T-1 & T-2) following our meeting. During the hydrovac operations under the pipe racks, the ground became very unstable under the supports for those pipes and equipment began to shift. Work was immediately halted, and wooden support was installed so that no additional shifting was to occur. During this time, the excavation of the areas of S-2 & S-3 was taking place and the ground experienced cave ins, which also affected the stability of the ground under the pipe racks approximately 8 feet to the north. After further investigation, it was determined that the area the under the pipe rack and the areas of S-2 & S-3 had been previously excavated during a 2023 spill remediation (NAPP2305947643) and was backfilled with soft topsoil material. This soft topsoil material combined with fluid from the hydrovac operation created an unsafe environment in which cave ins occurred throughout the excavation area. The areas directly under the pipe rack was hydro-excavated to a depth of 1.0' before the operation was terminated. Composite confirmation floor and sidewall samples were collected to document the area to be deferred for future reference.

Following this meeting, the site has been excavated to the safest possible extent without causing further cave ins or shifting of production equipment. Composite confirmation samples have been collected and analyzed. The entire site has been backfilled with clean (lab tested) material and the pasture area has been reseeded with BLM LPC seed mix, per BLM request.

Documents presented in that meeting as well as this email communication can be found in Appendix C of the deferral report.

Let me know if yall have any questions or comments.

Ashton Thielke
Environmental Manager
310 West Wall Street, Suite 500

APPENDIX D

CARMONA RESOURCES



Legend

- 0.50 Mile Radius
- 1.10 Miles
- 1.48 Miles
- Mescalero (11.07.2024)
- NMSEO Water Well
- USGS Water Well

Nearest water well

Delek Logistics

243.93' - Measured 2021

200' - Drilled 1998

Mescalero (11.07.2024)



Legend

- Low
- Mescalero (11.07.2024)

LOW KARST

Delek Logistics

Mescalero (11.07.2024)





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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
CP 00875		CP	LE	SW	SE	SW	05	19S	34E	632592.0	3617013.0 *		2369	200		

Average Depth to Water: **0 feet**

Minimum Depth: **0 feet**

Maximum Depth: **0 feet**

Record Count: 1

UTM Filters (in meters):

Easting: 630899.00

Northing: 3615355.00

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.

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measu agenc
						Groundwater	▼	New Mexico	▼
									GO

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
 site_no list =
 • 324046103360401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324046103360401 19S.34E.06.341434

Lea County, New Mexico
 Latitude 32°41'02.3", Longitude 103°36'09.30" NAD83
 Land-surface elevation 3,776.00 feet above NGVD29
 The depth of the well is 500 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-03-18			D	62610	3541.29	NGVD29	1	Z			A
1968-03-18			D	62611	3542.90	NAVD88	1	Z			A
1968-03-18			D	72019	234.71		1	Z			A
1971-01-12			D	62610	3532.84	NGVD29	1	Z			A
1971-01-12			D	62611	3534.45	NAVD88	1	Z			A
1971-01-12			D	72019	243.16		1	Z			A
1976-01-28			D	62610	3543.05	NGVD29	1	Z			A
1976-01-28			D	62611	3544.66	NAVD88	1	Z			A
1976-01-28			D	72019	232.95		1	Z			A
1976-12-15			D	62610	3543.60	NGVD29	1	Z			A
1976-12-15			D	62611	3545.21	NAVD88	1	Z			A
1976-12-15			D	72019	232.40		1	Z			A
1981-01-28			D	62610	3545.49	NGVD29	1	Z			A
1981-01-28			D	62611	3547.10	NAVD88	1	Z			A
1981-01-28			D	72019	230.51		1	Z			A
1986-04-07			D	62610	3545.38	NGVD29	1	Z			A
1986-04-07			D	62611	3546.99	NAVD88	1	Z			A
1986-04-07			D	72019	230.62		1	Z			A
1991-05-29			D	62610	3542.17	NGVD29	1	Z			A
1991-05-29			D	62611	3543.78	NAVD88	1	Z			A
1991-05-29			D	72019	233.83		1	Z			A
1996-01-30			D	62610	3536.94	NGVD29	1	S			A
1996-01-30			D	62611	3538.55	NAVD88	1	S			A
1996-01-30			D	72019	239.06		1	S			A
2001-03-08			D	62610	3531.77	NGVD29	1	S			A

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency
2001-03-08		D	62611	3533.38	NAVD88	1	S		A
2001-03-08		D	72019	244.23		1	S		A
2006-02-15	17:20 UTC	m	62610	3531.48	NGVD29	1	S	USGS	A
2006-02-15	17:20 UTC	m	62611	3533.09	NAVD88	1	S	USGS	A
2006-02-15	17:20 UTC	m	72019	244.52		1	S	USGS	A
2010-12-15	17:20 UTC	m	62610	3546.91	NGVD29	1	S	USGS	A
2010-12-15	17:20 UTC	m	62611	3548.52	NAVD88	1	S	USGS	A
2010-12-15	17:20 UTC	m	72019	229.09		1	S	USGS	A
2016-01-08	16:01 UTC	m	62610	3532.18	NGVD29	1	V	USGS	A
2016-01-08	16:01 UTC	m	62611	3533.79	NAVD88	1	V	USGS	A
2016-01-08	16:01 UTC	m	72019	243.82		1	V	USGS	A
2021-01-05	18:44 UTC	m	62610	3532.07	NGVD29	1	V	USGS	A
2021-01-05	18:44 UTC	m	62611	3533.68	NAVD88	1	V	USGS	A
2021-01-05	18:44 UTC	m	72019	243.93		1	V	USGS	A
2022-02-16	20:48 UTC	m	62610		NGVD29	0	S	USGS	A
2022-02-16	20:48 UTC	m	62611		NAVD88	0	S	USGS	A
2022-02-16	20:48 UTC	m	72019			0	S	USGS	A

Explanation

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

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

Title: Groundwater for New Mexico: Water Levels
 URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=324046103360401&agency_cd=USGS&format=html



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

Page Last Modified: 2024-11-16 21:41:07 EST

0.35 0.24 nadww02

47780

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Matador Petroleum, Inc. Owner's Well No. _____
Street or Post Office Address 415 West Wall Street, Suite 1101
City and State Midland, Texas 79701

Well was drilled under Permit No. CP-00875 and is located in the:

- a. _____ ¼ _____ ¼ _____ ¼ _____ ¼ of Section 5 Township 19s Range 34e N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Ken Marsh License No. WD-586

Address P.O. Box 1832 Hobbs, N.M. 88241

Drilling Began 1-7-98 Completed 1-7-98 Type tools Rotary air Size of hole 7 & 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 200 ft.

Completed well is shallow artesian. Depth to water upon completion of well Dry ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
			DRY	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor Same

Address _____

Plugging Method Backfill with cuttings

Date Well Plugged 1-7-98

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	0	10	15
2			
3			
4			

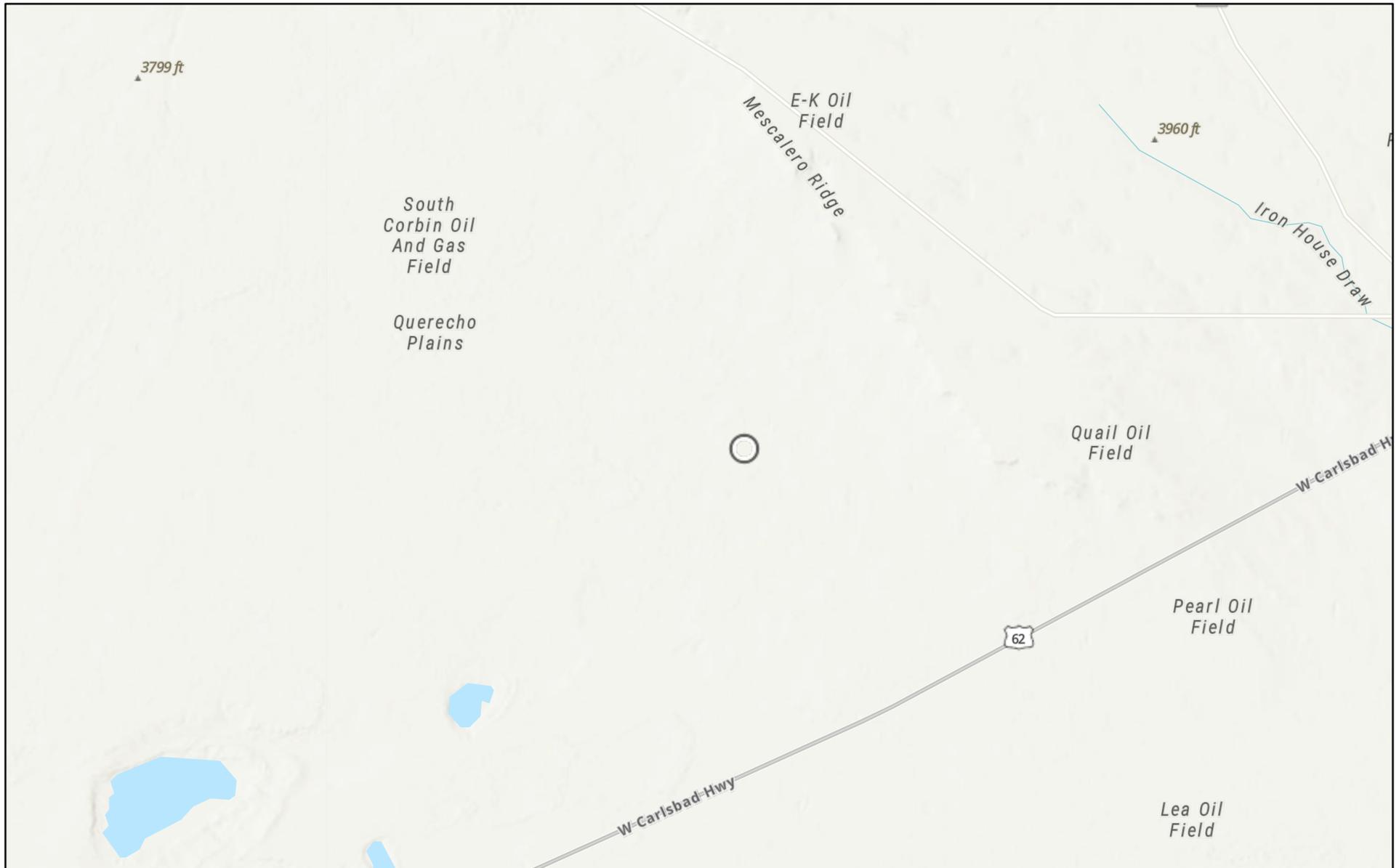
FOR USE OF STATE ENGINEER ONLY

Date Received 01/29/98

Quad _____ FWL _____ FSL _____

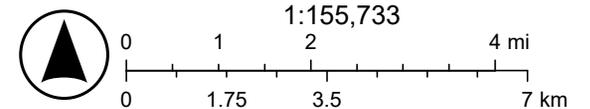
File No. CP-00875 Use OWD Location No. 19.34.5.34322

Mescalero (11.07.2024)



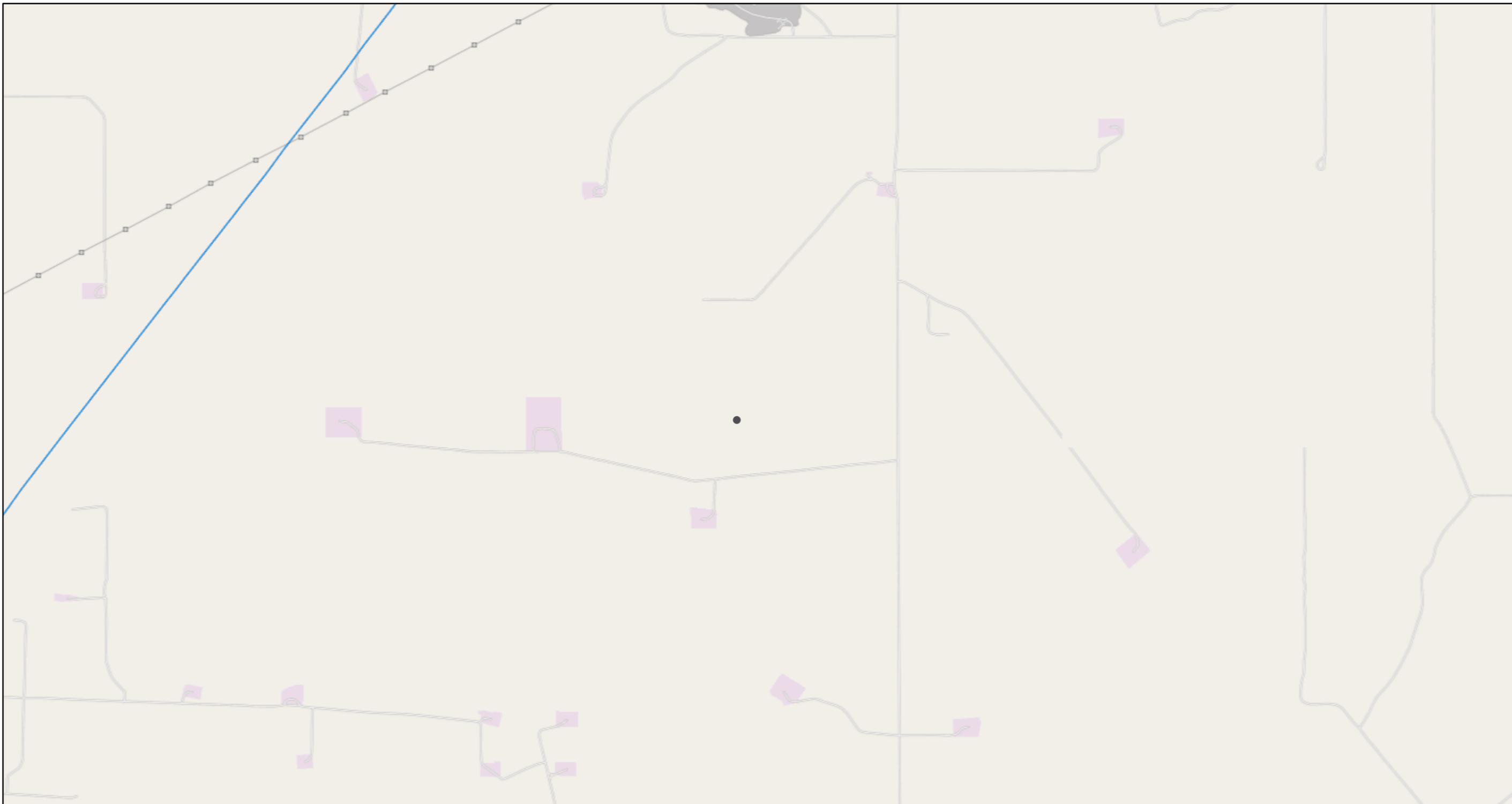
11/16/2024

World Hillshade



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, METI/
NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS

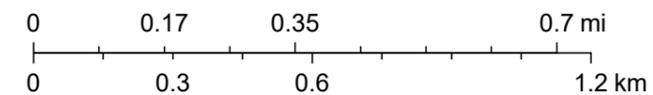
Mescalero (11.07.2024)



11/16/2024, 8:31:26 PM

— OSE Streams

1:18,056



Map data © OpenStreetMap contributors, CC-BY-SA, NM OSE

APPENDIX E

CARMONA RESOURCES





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

November 19, 2024

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

RE: MESCALERO (11-07-2024)

Enclosed are the results of analyses for samples received by the laboratory on 11/13/24 12:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/19/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: H - 1 (0-0.5') (H246916-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.13	107	2.00	5.05	
Toluene*	<0.050	0.050	11/15/2024	ND	2.02	101	2.00	5.13	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.00	99.9	2.00	5.06	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	5.93	98.9	6.00	4.91	
Total BTEX	<0.300	0.300	11/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	160	16.0	11/14/2024	ND	480	120	400	6.90	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2024	ND	207	104	200	0.925	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	193	96.3	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/19/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: H - 2 (0-0.5') (H246916-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.13	107	2.00	5.05	
Toluene*	<0.050	0.050	11/15/2024	ND	2.02	101	2.00	5.13	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.00	99.9	2.00	5.06	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	5.93	98.9	6.00	4.91	
Total BTEX	<0.300	0.300	11/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	144	16.0	11/14/2024	ND	480	120	400	6.90	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2024	ND	207	104	200	0.925	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	193	96.3	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/19/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: H - 3 (0-0.5') (H246916-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.14	107	2.00	9.78	
Toluene*	<0.050	0.050	11/15/2024	ND	2.18	109	2.00	11.1	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.07	104	2.00	12.1	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.62	110	6.00	11.5	
Total BTEX	<0.300	0.300	11/15/2024	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	11/14/2024	ND	480	120	400	6.90	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2024	ND	207	104	200	0.925	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	193	96.3	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/19/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: H - 4 (0-0.5') (H246916-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.14	107	2.00	9.78	
Toluene*	<0.050	0.050	11/15/2024	ND	2.18	109	2.00	11.1	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.07	104	2.00	12.1	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.62	110	6.00	11.5	
Total BTEX	<0.300	0.300	11/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	11/14/2024	ND	480	120	400	6.90	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2024	ND	207	104	200	0.925	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	193	96.3	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/19/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: H - 5 (0-0.5') (H246916-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2024	ND	2.14	107	2.00	9.78	
Toluene*	<0.050	0.050	11/15/2024	ND	2.18	109	2.00	11.1	
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.07	104	2.00	12.1	
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.62	110	6.00	11.5	
Total BTEX	<0.300	0.300	11/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2024	ND	480	120	400	6.90	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2024	ND	207	104	200	0.925	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	193	96.3	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/19/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: H - 6 (0-0.5') (H246916-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/15/2024	ND	2.14	107	2.00	9.78		
Toluene*	<0.050	0.050	11/15/2024	ND	2.18	109	2.00	11.1		
Ethylbenzene*	<0.050	0.050	11/15/2024	ND	2.07	104	2.00	12.1		
Total Xylenes*	<0.150	0.150	11/15/2024	ND	6.62	110	6.00	11.5		
Total BTEX	<0.300	0.300	11/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/14/2024	ND	480	120	400	6.90		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/14/2024	ND	207	104	200	0.925		
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	193	96.3	200	12.0		
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

1246916

Page 1 of 1

Page 9 of 9

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

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

Project Name:	Mescalero (11.07.2024)	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	2581	Due Date:	Normal		
Project Location:	Lea County, NM				
Sampler's Name:	GPJ				
PO #:					
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Received Intract:		Thermometer ID:		#140	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:		-0.408	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:		5.42	
Total Containers:		Corrected Temperature:		4.82	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
H-1 (0-0.5')	11/13/2024		X		G	1	BTEX 8021B		None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂	
H-2 (0-0.5')	11/13/2024		X		G	1	TPH 8015M (GRO + DRO + MRO)		DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na	
H-3 (0-0.5')	11/13/2024		X		G	1			HOLD	
H-4 (0-0.5')	11/13/2024		X		G	1			H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃	
H-5 (0-0.5')	11/13/2024		X		G	1			Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
H-6 (0-0.5')	11/13/2024		X		G	1	Chloride 4500			

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		11/13-24 1250			



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

November 14, 2024

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

RE: MESCALERO (11-07-2024)

Enclosed are the results of analyses for samples received by the laboratory on 11/13/24 12:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (0-1') (H246917-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	1.79	89.6	2.00	11.8	
Toluene*	0.406	0.050	11/14/2024	ND	1.83	91.7	2.00	12.5	
Ethylbenzene*	1.97	0.050	11/14/2024	ND	1.84	92.0	2.00	12.4	
Total Xylenes*	3.72	0.150	11/14/2024	ND	5.46	90.9	6.00	12.4	
Total BTEX	6.09	0.300	11/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/14/2024	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*	108	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	1110	10.0	11/13/2024	ND	213	106	200	2.66	QM-07
EXT DRO >C28-C36	183	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (1.5') (H246917-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.79	89.6	2.00	11.8	
Toluene*	0.126	0.050	11/13/2024	ND	1.83	91.7	2.00	12.5	
Ethylbenzene*	0.269	0.050	11/13/2024	ND	1.84	92.0	2.00	12.4	
Total Xylenes*	0.485	0.150	11/13/2024	ND	5.46	90.9	6.00	12.4	
Total BTEX	0.880	0.300	11/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	11/14/2024	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*	63.0	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	674	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	112	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (2.0') (H246917-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.79	89.6	2.00	11.8	
Toluene*	0.101	0.050	11/13/2024	ND	1.83	91.7	2.00	12.5	
Ethylbenzene*	0.324	0.050	11/13/2024	ND	1.84	92.0	2.00	12.4	
Total Xylenes*	0.669	0.150	11/13/2024	ND	5.46	90.9	6.00	12.4	
Total BTEX	1.09	0.300	11/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/14/2024	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*	11.1	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	273	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	47.5	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (3.0') (H246917-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.79	89.6	2.00	11.8	
Toluene*	<0.050	0.050	11/13/2024	ND	1.83	91.7	2.00	12.5	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	1.84	92.0	2.00	12.4	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.46	90.9	6.00	12.4	
Total BTEX	<0.300	0.300	11/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2024	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*	104	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	1090	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	191	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (4.0') (H246917-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.79	89.6	2.00	11.8	
Toluene*	<0.050	0.050	11/13/2024	ND	1.83	91.7	2.00	12.5	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	1.84	92.0	2.00	12.4	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.46	90.9	6.00	12.4	
Total BTEX	<0.300	0.300	11/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2024	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*	64.8	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	701	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	114	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (5.0') (H246917-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2024	ND	1.79	89.6	2.00	11.8	
Toluene*	<0.050	0.050	11/13/2024	ND	1.83	91.7	2.00	12.5	
Ethylbenzene*	<0.050	0.050	11/13/2024	ND	1.84	92.0	2.00	12.4	
Total Xylenes*	<0.150	0.150	11/13/2024	ND	5.46	90.9	6.00	12.4	
Total BTEX	<0.300	0.300	11/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.6	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	270	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	42.3	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (6.0') (H246917-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	<0.050	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	14.9	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (7.0') (H246917-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	<0.050	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	11.6	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (8.0') (H246917-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	<0.050	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	0.097	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	0.246	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	0.343	0.300	11/14/2024	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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	19.5	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 1 (9.0')R (H246917-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	<0.050	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	22.6	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (0-1') (H246917-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	51.4	2.00	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	348	2.00	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	215	2.00	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	311	6.00	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	925	12.0	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	6700	50.0	11/14/2024	ND	209	105	200	0.516		
DRO >C10-C28*	12500	50.0	11/14/2024	ND	213	106	200	2.66		
EXT DRO >C28-C36	1980	50.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 181 % 48.2-134

Surrogate: 1-Chlorooctadecane 227 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (1.5') (H246917-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.21	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	3.83	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	2.15	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	3.01	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	10.2	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.6	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	40.2	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (2.0') (H246917-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.01	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	9.94	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	6.04	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	8.65	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	26.6	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.9	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	34.1	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (3.0') (H246917-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.55	0.200	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	25.1	0.200	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	15.5	0.200	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	22.3	0.600	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	67.4	1.20	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	25.2	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	41.1	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (4.0') (H246917-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	0.337	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	0.376	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	0.640	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	1.35	0.300	11/14/2024	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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	59.6	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (5.0') (H246917-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	0.228	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	0.319	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	0.549	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	1.10	0.300	11/14/2024	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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (6.0') (H246917-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	<0.050	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (7.0') (H246917-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	0.204	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	0.218	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	0.418	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	0.840	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.6	10.0	11/13/2024	ND	209	105	200	0.516	
DRO >C10-C28*	189	10.0	11/13/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	22.1	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 2 (7.5')R (H246917-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.075	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	0.313	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	0.219	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	0.439	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	1.05	0.300	11/14/2024	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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.6	10.0	11/14/2024	ND	209	105	200	0.516	
DRO >C10-C28*	174	10.0	11/14/2024	ND	213	106	200	2.66	
EXT DRO >C28-C36	22.8	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (0-1') (H246917-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	39.0	2.00	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	334	2.00	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	235	2.00	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	350	6.00	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	958	12.0	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	7100	50.0	11/14/2024	ND	209	105	200	0.516		
DRO >C10-C28*	15000	50.0	11/14/2024	ND	213	106	200	2.66		
EXT DRO >C28-C36	2490	50.0	11/14/2024	ND						

Surrogate: 1-Chlorooctane 231 % 48.2-134

Surrogate: 1-Chlorooctadecane 275 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (1.5') (H246917-21)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.63	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	6.79	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	4.75	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	7.28	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	20.4	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	36.6	10.0	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	138	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (2.0') (H246917-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.278	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	0.601	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	0.184	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	0.245	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	1.31	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	15.4	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (3.0') (H246917-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.174	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	1.90	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	2.48	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	4.38	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	8.93	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.6	10.0	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	134	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (4.0') (H246917-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	0.230	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	0.376	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	0.648	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	1.25	0.300	11/14/2024	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	16.0	16.0	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (5.0') (H246917-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	<0.050	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (6.0') (H246917-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.19	110	2.00	3.20	
Toluene*	0.730	0.050	11/14/2024	ND	2.08	104	2.00	3.63	
Ethylbenzene*	1.17	0.050	11/14/2024	ND	2.06	103	2.00	4.54	
Total Xylenes*	2.07	0.150	11/14/2024	ND	6.10	102	6.00	4.18	
Total BTEX	3.97	0.300	11/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2024	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*	11.5	10.0	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	74.0	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (7.0') (H246917-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/14/2024	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	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	46.9	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 3 (7.5')R (H246917-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	0.096	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	0.214	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	0.545	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	0.855	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/14/2024	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	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	160	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	18.2	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 4 (0-1') (H246917-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/14/2024	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	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 4 (1.5') (H246917-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2024	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	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 4 (2.0') (H246917-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2024	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	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 4 (3.0') (H246917-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2024	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	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 5 (0-1') (H246917-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	11/14/2024	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	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	18.7	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 5 (1.5') (H246917-34)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	11/14/2024	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	11/13/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/13/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/13/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 5 (2.0') (H246917-35)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/14/2024	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	11/14/2024	ND	223	112	200	3.20	
DRO >C10-C28*	57.8	10.0	11/14/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 5 (3.0') (H246917-36)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	11/14/2024	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	11/14/2024	ND	223	112	200	3.20	
DRO >C10-C28*	50.3	10.0	11/14/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 5 (4.0') (H246917-37)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2024	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	11/14/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 5 (5.0') (H246917-38)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2024	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	11/14/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 6 (0-0.5') (H246917-39)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/14/2024	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	11/14/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 6 (0.5-1.0') (H246917-40)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/14/2024	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	11/14/2024	ND	223	112	200	3.20	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	216	108	200	0.932	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 6 (2.0') (H246917-41)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/14/2024	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	11/14/2024	ND	197	98.7	200	2.01	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	192	95.9	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 7 (0-0.5') (H246917-42)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2024	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	11/14/2024	ND	197	98.7	200	2.01	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	192	95.9	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 7 (0.5'-1.0') (H246917-43)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2024	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	11/14/2024	ND	236	118	200	0.0696	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	226	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/13/2024	Sampling Date:	11/13/2024
Reported:	11/14/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S - 7 (2.0') (H246917-44)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2024	ND	2.30	115	2.00	0.248	
Toluene*	<0.050	0.050	11/14/2024	ND	2.36	118	2.00	0.687	
Ethylbenzene*	<0.050	0.050	11/14/2024	ND	2.27	114	2.00	0.923	
Total Xylenes*	<0.150	0.150	11/14/2024	ND	7.15	119	6.00	0.438	
Total BTEX	<0.300	0.300	11/14/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2024	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	11/14/2024	ND	236	118	200	0.0696	
DRO >C10-C28*	<10.0	10.0	11/14/2024	ND	226	113	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	11/14/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H246917

Page 1 of 5

Page 47 of 51

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

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

Project Name:	Mescalero (11.07.2024)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	2561	Due Date:	24 Hours		
Project Location	Lea County, NM				
Sampler's Name:	GPJ				
PO #:					

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
S-1 (0-1')	11/13/2024		X		G	1	X	X	X	
S-1 (1.5')	11/13/2024		X		G	1	X	X	X	
S-1 (2.0')	11/13/2024		X		G	1	X	X	X	
S-1 (3.0')	11/13/2024		X		G	1	X	X	X	
S-1 (4.0')	11/13/2024		X		G	1	X	X	X	
S-1 (5.0')	11/13/2024		X		G	1	X	X	X	
S-1 (6.0')	11/13/2024		X		G	1	X	X	X	
S-1 (7.0')	11/13/2024		X		G	1	X	X	X	
S-1 (8.0')	11/13/2024		X		G	1	X	X	X	
S-1 (9.0')R	11/13/2024		X		G	1	X	X	X	

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		11-13-24 1250			

Chain of Custody

Work Order No:

Handwritten: H246917

Page 2 of 5

Project Manager: Ashton Thielke
 Company Name: Carmona Resources
 Address: 310 West Wall Ste. 500
 City, State ZIP: Midland, TX 79701
 Phone: 432-813-8988
 Email: thielkea@carmonaresources.com

Bill to: (if different)
 Company Name: Carmona Resources
 Address:
 City, State ZIP:

Work Order Comments
 Program: UST/PST PRP Brownfields RRC upertund
 State of Project:
 Reporting Level: Level II Level III PST/UST TRRP Level IV
 Deliverables: EDD ADAPT Other:

Project Name: Mescalero (11.07.2024)
 Project Number: 2561
 Project Location: Lea County, NM
 Sampler's Name: GPJ
 PO #:

Turn Around
 Routine Rush
 Due Date: 24 Hours

Received In tact: Yes No
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No
 Total Containers: Yes No

Temp Blank: Yes No
 Wet Ice: Yes No
 Thermometer ID: #140
 Correction Factor: -0.6%
 Temperature Reading: 5.4°C
 Corrected Temperature: 4.8°C

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
S-2(0-1')	11/13/2024		X		G	1	BTEX 8021B		None: NO	
S-2(1.5')	11/13/2024		X		G	1	TPH 8015M (GRO + DRO + MRO)		DI Water: H ₂ O	
S-2(2.0')	11/13/2024		X		G	1	Chloride 4500		Cool: Cool	MeOH: Me
S-2(3.0')	11/13/2024		X		G	1			HCL: HC	HNO ₃ : HN
S-2(4.0')	11/13/2024		X		G	1			H ₂ SO ₄ : H ₂	NaOH: Na
S-2(5.0')	11/13/2024		X		G	1			H ₃ PO ₄ : HP	
S-2(6.0')	11/13/2024		X		G	1			NaHSO ₄ : NABIS	
S-2(7.0')	11/13/2024		X		G	1			Na ₂ S ₂ O ₃ : NaSO ₃	
S-2(7.5') R	11/13/2024		X		G	1			Zn Acetate+NaOH: Zn	
S-3 (0-1')	11/13/2024		X		G	1			NaOH+Ascorbic Acid: SACP	

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

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

Chain of Custody

Work Order No:

Handwritten: H246917

Page 3 of 5

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

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

Project Name:	Mescalero (11.07.2024)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	2581	Due Date:	24 Hours		
Project Location:	Lea County, NM				
Sampler's Name:	GPJ				
PO #:					

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters				Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500		
S-3(1.5')	11/13/2024		X		G	1	X	X	X		
S-3(2.0')	11/13/2024		X		G	1	X	X	X		
S-3(3.0')	11/13/2024		X		G	1	X	X	X		
S-3(4.0')	11/13/2024		X		G	1	X	X	X		
S-3(5.0')	11/13/2024		X		G	1	X	X	X		
S-3(6.0')	11/13/2024		X		G	1	X	X	X		
S-3(7.0')	11/13/2024		X		G	1	X	X	X		
S-3(7.5') R	11/13/2024		X		G	1	X	X	X		
S-4 (0-1')	11/13/2024		X		G	1	X	X	X		
S-4 (1.5')	11/13/2024		X		G	1	X	X	X		

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

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	<i>Carmona Resources</i>	11-13-24 12:50			

Revised Date 05/01/2020 Rev. 2020.1

Chain of Custody

Work Order No:

1846917

Page 5 of 5

Page 51 of 51

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

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

Project Name:	Mescalero (11.07.2024)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes
Project Number:	2581							None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Project Location:	Lea County, NM	Due Date:	24 Hours					
Sampler's Name:	GPJ							
PO #:								

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
S-6 (2.0')	11/13/2024		X		G	1	X	X	X	
S-7 (0.0-0.5')	11/13/2024		X		G	1	X	X	X	
S-7 (0.5'-1.0')	11/13/2024		X		G	1	X	X	X	
S-7 (2.0')	11/13/2024		X		G	1	X	X	X	

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		11-13-24 1250			



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

November 26, 2024

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

RE: MESCALERO (11-07-2024)

Enclosed are the results of analyses for samples received by the laboratory on 11/20/24 9:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

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



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (1.0') (H247073-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	0.102	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	0.221	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	0.451	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	0.774	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	108	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	18.6	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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



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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (2.0') (H247073-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.569	0.050	11/21/2024	ND	2.00	100	2.00	3.30	
Toluene*	1.31	0.050	11/21/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	0.744	0.050	11/21/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	1.13	0.150	11/21/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	3.75	0.300	11/21/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.9	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	35.6	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (3.0') (H247073-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.222	0.050	11/21/2024	ND	2.00	100	2.00	3.30	
Toluene*	0.530	0.050	11/21/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	0.330	0.050	11/21/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	0.625	0.150	11/21/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	1.71	0.300	11/21/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (4.0') (H247073-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	15.4	2.00	11/21/2024	ND	2.00	100	2.00	3.30	
Toluene*	104	2.00	11/21/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	74.8	2.00	11/21/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	113	6.00	11/21/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	306	12.0	11/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	898	50.0	11/20/2024	ND	223	111	200	0.920		
DRO >C10-C28*	1930	50.0	11/20/2024	ND	221	111	200	1.26		
EXT DRO >C28-C36	359	50.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 152 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (5.0') (H247073-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	0.135	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	0.102	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	0.356	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	28.8	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (6.0') (H247073-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	0.328	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	0.347	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	0.572	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	1.25	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	45.4	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (7.0') (H247073-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30		
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91		
Total BTEX	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/21/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	221	111	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (8.0') (H247073-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30		
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91		
Total BTEX	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/21/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920		
DRO >C10-C28*	39.8	10.0	11/20/2024	ND	221	111	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (9.0') (H247073-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	0.065	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	0.143	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	0.307	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	0.515	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	26.4	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 1 (10.0') (H247073-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	211	105	200	0.941	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	207	103	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (1.0') (H247073-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	211	105	200	0.941	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	207	103	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (2.0') (H247073-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	211	105	200	0.941	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	207	103	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (3.0') (H247073-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30		
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91		
Total BTEX	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	211	105	200	0.941		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	207	103	200	1.04		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (4.0') (H247073-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	211	105	200	0.941	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	207	103	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (5.0') (H247073-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	211	105	200	0.941	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	207	103	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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



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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (6.0') (H247073-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30		
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91		
Total BTEX	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	211	105	200	0.941		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	207	103	200	1.04		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (7.0') (H247073-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30		
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91		
Total BTEX	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	11/22/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/21/2024	ND	211	105	200	0.941		
DRO >C10-C28*	<10.0	10.0	11/21/2024	ND	207	103	200	1.04		
EXT DRO >C28-C36	<10.0	10.0	11/21/2024	ND						

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (8.0') (H247073-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.091	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	1.29	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	1.33	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	2.09	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	4.80	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2024	ND	211	105	200	0.941	
DRO >C10-C28*	<10.0	10.0	11/21/2024	ND	207	103	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	11/21/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (9.0') (H247073-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.00	100	2.00	3.30	
Toluene*	<0.050	0.050	11/20/2024	ND	1.91	95.7	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.92	95.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.69	94.8	6.00	2.91	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	11/22/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2024	ND	211	105	200	0.941	
DRO >C10-C28*	<10.0	10.0	11/21/2024	ND	207	103	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	11/21/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/26/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: T - 2 (10.0') (H247073-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	4.53	
Toluene*	<0.050	0.050	11/25/2024	ND	1.92	96.1	2.00	2.85	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.03	101	2.00	5.00	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.17	103	6.00	5.46	
Total BTEX	<0.300	0.300	11/25/2024	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	96.0	16.0	11/25/2024	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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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Chain of Custody

Work Order No: 1847073

Page 2 of 2

Project Manager: Ashton Thielke
 Company Name: Carmona Resources
 Address: 310 West Wall Ste. 500
 City, State ZIP: Midland, TX 79701
 Phone: 432-813-8988
 Email: thielkea@carmonaresources.com

Bill to: (if different)
 Company Name: Carmona Resources
 Address:
 City, State ZIP:

Work Order Comments
 Program: UST/PST PRP Brownfields RRC Superfund
 State of Project:
 Reporting Level III Level II PST/UST TRRP Level IV
 Deliverables: EDD ADAP Other:

Project Name: Mescalero (11.07.2024)
 Project Number: 2581
 Project Location: Lea County, NM
 Sampler's Name: JR
 PO #:

Turn Around: Routine Rush
 Due Date: 48 Hours

Received Intact: Yes No
 Cooler Custody Seals: Yes No
 Sample Custody Seals: Yes No N/A
 Total Containers: Corrected Temperature: 1.3

Temp Blank: Yes No
 Thermometer ID: 140
 Correction Factor: -0.10
 Temperature Reading: 1.9
 Wet Ice: Yes No

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
T-2(1.0')	11/19/2024		X		Grab/	1	BTEX 8021B		None: NO	DI Water: H ₂ O
T-2(2.0')	11/19/2024		X		Grab/	1	TPH 8015M (GRO + DRO + MRO)		Cool: Cool	MeOH: Me
T-2(3.0')	11/19/2024		X		Grab/	1	Chloride 4500		HCL: HC	HNO ₃ : HN
T-2(4.0')	11/19/2024		X		Grab/	1			H ₂ SO ₄ : H ₂	NaOH: Na
T-2(5.0')	11/19/2024		X		Grab/	1			H ₃ PO ₄ : HP	
T-2(6.0')	11/19/2024		X		Grab/	1			NaHSO ₄ : NABIS	
T-2(7.0')	11/19/2024		X		Grab/	1			Na ₂ S ₂ O ₃ : NaSO ₃	
T-2(8.0')	11/19/2024		X		Grab/	1			Zn Acetate+NaOH: Zn	
T-2(9.0')	11/19/2024		X		Grab/	1			NaOH+Ascorbic Acid: SAPC	
T-2(10.0')	11/19/2024		X		Grab/	4				Hold 20

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

Relinquished by: (Signature) *[Signature]* Received by: (Signature) *[Signature]* Date/Time: 11.20.24 0903

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



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

November 21, 2024

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

RE: MESCALERO (11-07-2024)

Enclosed are the results of analyses for samples received by the laboratory on 11/20/24 9:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 1 (0.5') (H247072-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1	
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 2 (0.5') (H247072-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1		
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7		
Total BTEX	<0.300	0.300	11/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/21/2024	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	11/20/2024	ND	230	115	200	0.215		
DRO >C10-C28*	112	10.0	11/20/2024	ND	217	108	200	0.478		
EXT DRO >C28-C36	26.8	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 3 (0.5') (H247072-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1	
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	37.8	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 4 (0.5') (H247072-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1	
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	23.8	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 5 (0.5') (H247072-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1		
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7		
Total BTEX	<0.300	0.300	11/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 6 (0.5') (H247072-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1		
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7		
Total BTEX	<0.300	0.300	11/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 7 (0.5') (H247072-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1		
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7		
Total BTEX	<0.300	0.300	11/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 8 (0.5') (H247072-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1	
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 9 (0.5') (H247072-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1	
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 10 (0.5') (H247072-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1		
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7		
Total BTEX	<0.300	0.300	11/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 11 (0.5') (H247072-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1		
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7		
Total BTEX	<0.300	0.300	11/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 12 (0.5') (H247072-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 13 (0.5') (H247072-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 14 (0.5') (H247072-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 15 (0.5') (H247072-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	46.2	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 16 (0.5') (H247072-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	77.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 17 (0.5') (H247072-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 18 (0.5') (H247072-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 19 (0.5') (H247072-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/20/2024	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	11/20/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 20 (0.5') (H247072-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2024	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	11/21/2024	ND	230	115	200	0.215	
DRO >C10-C28*	<10.0	10.0	11/21/2024	ND	217	108	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	11/21/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 21 (0.5') (H247072-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 22 (0.5') (H247072-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/20/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	37.4	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 23 (0.5') (H247072-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 24 (0.5') (H247072-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 25 (0.5') (H247072-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 26 (1.0') (H247072-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	98.2	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	13.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 27 (1.0') (H247072-27)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.138	0.100	11/21/2024	ND	2.18	109	2.00	0.312	
Toluene*	10.1	0.100	11/21/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	17.4	0.100	11/21/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	31.0	0.300	11/21/2024	ND	6.78	113	6.00	0.192	
Total BTEX	58.5	0.600	11/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 197 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2024	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*	359	50.0	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	1150	50.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	165	50.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 28 (1.0') (H247072-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.28	1.00	11/21/2024	ND	2.18	109	2.00	0.312	
Toluene*	26.9	1.00	11/21/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	33.0	1.00	11/21/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	46.5	3.00	11/21/2024	ND	6.78	113	6.00	0.192	
Total BTEX	109	6.00	11/21/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/21/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	387	50.0	11/21/2024	ND	220	110	200	3.18		
DRO >C10-C28*	1030	50.0	11/21/2024	ND	215	107	200	7.63		
EXT DRO >C28-C36	117	50.0	11/21/2024	ND						

Surrogate: 1-Chlorooctane 136 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 29 (5.5') (H247072-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/21/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/21/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/21/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 30 (5.5') (H247072-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: CS - 31 (5.5') (H247072-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.18	109	2.00	0.312	
Toluene*	<0.050	0.050	11/20/2024	ND	2.23	111	2.00	0.122	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.13	107	2.00	0.0286	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.78	113	6.00	0.192	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 11/20/2024
 Reported: 11/21/2024
 Project Name: Mescalero (11-07-2024)
 Project Number: 2581
 Project Location: LEA CO NM

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (0.5') (H247072-32)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95	
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	16.6	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 2 (0.5') (H247072-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95	
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 3 (0.5') (H247072-34)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95	
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 4 (0.5') (H247072-35)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95	
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 5 (1.0') (H247072-36)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95	
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61	
Ethylbenzene*	0.154	0.050	11/20/2024	ND	2.29	115	2.00	0.383	
Total Xylenes*	0.786	0.150	11/20/2024	ND	6.98	116	6.00	0.256	
Total BTEX	0.940	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2024	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*	11.9	10.0	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	68.8	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 6 (1.0') (H247072-37)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95	
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	31.5	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 7 (5.5') (H247072-38)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95		
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256		
Total BTEX	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 8 (5.5') (H247072-39)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95		
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256		
Total BTEX	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 9 (5.5') (H247072-40)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95	
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	220	110	200	3.18	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	215	107	200	7.63	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 10 (5.5') (H247072-41)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95		
Toluene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	1.61		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256		
Total BTEX	<0.300	0.300	11/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2024	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	11/20/2024	ND	223	111	200	0.920		
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	221	111	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/20/2024	Sampling Date:	11/19/2024
Reported:	11/21/2024	Sampling Type:	Soil
Project Name:	MESCALERO (11-07-2024)	Sampling Condition:	Cool & Intact
Project Number:	2581	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA CO NM		

Sample ID: SW - 11 (5.5') (H247072-42)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	2.03	101	2.00	2.95	
Toluene*	0.068	0.050	11/20/2024	ND	2.10	105	2.00	1.61	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.29	115	2.00	0.383	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.98	116	6.00	0.256	
Total BTEX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/21/2024	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	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: H247072

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

Work Order Comments

Program: UST/PST PRP Brownfields RRC Superfund

State of Project: Level II Level III PST/UST TRRP Level IV

Reporting Level: Level II Level III PST/UST TRRP Level IV

Deliverables: EDD ADAPT Other:

Project Name:	Mescalero (11.07.2024)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes	None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Project Number:	2581	Due Date:	24 Hours	Parameters	BTEX 8021B				
Project Location:	Lea County, NM	Sampler's Name:	JR		TPH 8015M (GRO + DRO + MRO)				
PO #:		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Chloride 4500				
SAMPLE RECEIPT	Received In tact:	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
	Cooler Custody Seals:	Correction Factor:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A						
	Sample Custody Seals:	Temperature Reading:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A						
	Total Containers:	Corrected Temperature:	1.35						

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
CS-1 (0.5)	11/19/2024		X		Comp	1			1
CS-2 (0.5)	11/19/2024		X		Comp	1			2
CS-3 (0.5)	11/19/2024		X		Comp	1			3
CS-4 (0.5)	11/19/2024		X		Comp	1			4
CS-5 (0.5)	11/19/2024		X		Comp	1			5
CS-6 (0.5)	11/19/2024		X		Comp	1			6
CS-7 (0.5)	11/19/2024		X		Comp	1			7
CS-8 (0.5)	11/19/2024		X		Comp	1			8
CS-9 (0.5)	11/19/2024		X		Comp	1			9
CS-10 (0.5)	11/19/2024		X		Comp	1			10

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		11:20:24 0700			2
					4
					6

Chain of Custody

Work Order No: H847107a

Page 3 of 5

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

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

Project Name:	Mescalero (11.07.2024)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	2581	Due Date:	24 Hours		
Project Location:	Lea County, NM				
Sampler's Name:	JR				
PO #:					
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	-0.01		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	1.91		
Total Containers:		Corrected Temperature:	1.31		

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
CS-21 (0.5')	11/19/2024		X		Comp	1	X	X	X	31
CS-22 (0.5')	11/19/2024		X		Comp	1	X	X	X	32
CS-23 (0.5')	11/19/2024		X		Comp	1	X	X	X	33
CS-24 (0.5')	11/19/2024		X		Comp	1	X	X	X	34
CS-25 (0.5')	11/19/2024		X		Comp	1	X	X	X	35
CS-26 (1.0')	11/19/2024		X		Comp	1	X	X	X	36
CS-27 (1.0')	11/19/2024		X		Comp	1	X	X	X	37
CS-28 (1.0')	11/19/2024		X		Comp	1	X	X	X	38
CS-29 (5.5')	11/19/2024		X		Comp	1	X	X	X	39
CS-30 (5.5')	11/19/2024		X		Comp	1	X	X	X	30

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

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	<i>[Signature]</i>	11/30/24 0900			

Chain of Custody

Work Order No: 1847072

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

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

Project Name:	Mescalero (11.07.2024)	Turn Around	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Due Date:	24 Hours
Project Number:	2581					
Project Location:	Lea County, NM					
Sampler's Name:	JR					
PO #:						
SAMPLE RECEIPT	Temp Blank: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:	140	
Received In tact:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	-0.002			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	1.92			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected Temperature:	1.32			
Total Containers:						

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Preservative Codes
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
CS-31 (5.5')	11/19/2024		X		Comp	1	X	X	X	
SW-1 (0.5')	11/19/2024		X		Comp	1	X	X	X	
SW-2 (0.5')	11/19/2024		X		Comp	1	X	X	X	
SW-3 (0.5')	11/19/2024		X		Comp	1	X	X	X	
SW-4 (0.5')	11/19/2024		X		Comp	1	X	X	X	
SW-5 (1.0')	11/19/2024		X		Comp	1	X	X	X	
SW-6 (1.0')	11/19/2024		X		Comp	1	X	X	X	
SW-7 (5.5')	11/19/2024		X		Comp	1	X	X	X	
SW-8 (5.5')	11/19/2024		X		Comp	1	X	X	X	
SW-9 (5.5')	11/19/2024		X		Comp	1	X	X	X	

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

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		11/20/24 0900			



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
 Carmona Resources
 310 W Wall St
 Ste 500
 Midland, Texas 79701

Generated 11/25/2024 3:39:36 PM

JOB DESCRIPTION

Mescalero (11.07.204)
 Lea County, NM

JOB NUMBER

880-51395-1

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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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: Mescalero (11.07.204)

Laboratory Job ID: 880-51395-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Mescalero (11.07.204)

Job ID: 880-51395-1

Job ID: 880-51395-1

Eurofins Midland

Job Narrative 880-51395-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 11/22/2024 9:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: CS-2 (0.5'-0.75') (880-51395-1).

GC VOA

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

Diesel Range Organics

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96354 and analytical batch 880-96358 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.

The associated sample is: CS-2 (0.5'-0.75') (880-51395-1).

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
 SDG: Lea County, NM

Client Sample ID: CS-2 (0.5'-0.75')

Lab Sample ID: 880-51395-1

Date Collected: 11/21/24 00:00

Matrix: Solid

Date Received: 11/22/24 09:00

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		11/22/24 09:32	11/22/24 11:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/22/24 09:32	11/22/24 11:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/22/24 09:32	11/22/24 11:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/22/24 09:32	11/22/24 11:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/22/24 09:32	11/22/24 11:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/22/24 09:32	11/22/24 11:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/22/24 09:32	11/22/24 11:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/22/24 09:32	11/22/24 11:37	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			11/22/24 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/25/24 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/23/24 19:25	11/25/24 13:50	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/23/24 19:25	11/25/24 13:50	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/23/24 19:25	11/25/24 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	11/23/24 19:25	11/25/24 13:50	1
o-Terphenyl	80		70 - 130	11/23/24 19:25	11/25/24 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			11/22/24 16:04	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-51395-1	CS-2 (0.5'-0.75')	98	99
880-51395-1 MS	CS-2 (0.5'-0.75')	102	100
880-51395-1 MSD	CS-2 (0.5'-0.75')	104	101
LCS 880-96361/1-A	Lab Control Sample	106	101
LCSD 880-96361/2-A	Lab Control Sample Dup	101	103
MB 880-96361/5-A	Method Blank	96	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-51395-1	CS-2 (0.5'-0.75')	106	80
890-7406-A-28-E MS	Matrix Spike	87	74
890-7406-A-28-F MSD	Matrix Spike Duplicate	87	74
LCS 880-96448/2-A	Lab Control Sample	90	82
LCSD 880-96448/3-A	Lab Control Sample Dup	90	80
MB 880-96448/1-A	Method Blank	87	72

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-96361/5-A
 Matrix: Solid
 Analysis Batch: 96348

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 96361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/22/24 09:32	11/22/24 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/22/24 09:32	11/22/24 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/22/24 09:32	11/22/24 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/22/24 09:32	11/22/24 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/22/24 09:32	11/22/24 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/22/24 09:32	11/22/24 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/22/24 09:32	11/22/24 11:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/22/24 09:32	11/22/24 11:15	1

Lab Sample ID: LCS 880-96361/1-A
 Matrix: Solid
 Analysis Batch: 96348

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 96361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1116		mg/Kg		112	70 - 130
Toluene	0.100	0.1090		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1139		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2175		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1228		mg/Kg		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-96361/2-A
 Matrix: Solid
 Analysis Batch: 96348

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 96361

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1142		mg/Kg		114	70 - 130	2	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	2	35
Ethylbenzene	0.100	0.1175		mg/Kg		117	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2253		mg/Kg		113	70 - 130	4	35
o-Xylene	0.100	0.1263		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-51395-1 MS
 Matrix: Solid
 Analysis Batch: 96348

Client Sample ID: CS-2 (0.5'-0.75')
 Prep Type: Total/NA
 Prep Batch: 96361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1051		mg/Kg		106	70 - 130
Toluene	<0.00199	U	0.0996	0.1041		mg/Kg		104	70 - 130

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QC Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
 SDG: Lea County, NM

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

Lab Sample ID: 880-51395-1 MS
 Matrix: Solid
 Analysis Batch: 96348

Client Sample ID: CS-2 (0.5'-0.75')
 Prep Type: Total/NA
 Prep Batch: 96361

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00199	U	0.0996	0.1084		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2077		mg/Kg		104	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1156		mg/Kg		116	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-51395-1 MSD
 Matrix: Solid
 Analysis Batch: 96348

Client Sample ID: CS-2 (0.5'-0.75')
 Prep Type: Total/NA
 Prep Batch: 96361

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00199	U	0.100	0.1102		mg/Kg		110	70 - 130	5	35
Toluene	<0.00199	U	0.100	0.1075		mg/Kg		107	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.100	0.1136		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2190		mg/Kg		109	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.1216		mg/Kg		121	70 - 130	5	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-96448/1-A
 Matrix: Solid
 Analysis Batch: 96449

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 96448

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		11/23/24 19:25	11/25/24 09:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/23/24 19:25	11/25/24 09:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/23/24 19:25	11/25/24 09:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	87		70 - 130	11/23/24 19:25	11/25/24 09:50	1
o-Terphenyl	72		70 - 130	11/23/24 19:25	11/25/24 09:50	1

Lab Sample ID: LCS 880-96448/2-A
 Matrix: Solid
 Analysis Batch: 96449

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 96448

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Gasoline Range Organics (GRO)-C6-C10	1000	992.8		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	819.3		mg/Kg		82	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
 SDG: Lea County, NM

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

Lab Sample ID: LCS 880-96448/2-A
Matrix: Solid
Analysis Batch: 96449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96448

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-96448/3-A
Matrix: Solid
Analysis Batch: 96449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96448

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	1000	788.9		mg/Kg		79	70 - 130	4	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 890-7406-A-28-E MS
Matrix: Solid
Analysis Batch: 96449

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 96448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	923.8		mg/Kg		92	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	790.5		mg/Kg		77	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	87		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 890-7406-A-28-F MSD
Matrix: Solid
Analysis Batch: 96449

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 96448

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	944.1		mg/Kg		94	70 - 130	2
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	784.5		mg/Kg		77	70 - 130	1

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	87		70 - 130
o-Terphenyl	74		70 - 130

QC Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-96354/1-A
 Matrix: Solid
 Analysis Batch: 96358

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			11/22/24 13:24	1

Lab Sample ID: LCS 880-96354/2-A
 Matrix: Solid
 Analysis Batch: 96358

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.3		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-96354/3-A
 Matrix: Solid
 Analysis Batch: 96358

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	250.6		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 880-51388-A-1-C MS
 Matrix: Solid
 Analysis Batch: 96358

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	203		252	447.7		mg/Kg		97	90 - 110

Lab Sample ID: 880-51388-A-1-D MSD
 Matrix: Solid
 Analysis Batch: 96358

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	203		252	452.5		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 96348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51395-1	CS-2 (0.5'-0.75')	Total/NA	Solid	8021B	96361
MB 880-96361/5-A	Method Blank	Total/NA	Solid	8021B	96361
LCS 880-96361/1-A	Lab Control Sample	Total/NA	Solid	8021B	96361
LCSD 880-96361/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96361
880-51395-1 MS	CS-2 (0.5'-0.75')	Total/NA	Solid	8021B	96361
880-51395-1 MSD	CS-2 (0.5'-0.75')	Total/NA	Solid	8021B	96361

Prep Batch: 96361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51395-1	CS-2 (0.5'-0.75')	Total/NA	Solid	5035	
MB 880-96361/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96361/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96361/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51395-1 MS	CS-2 (0.5'-0.75')	Total/NA	Solid	5035	
880-51395-1 MSD	CS-2 (0.5'-0.75')	Total/NA	Solid	5035	

Analysis Batch: 96530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51395-1	CS-2 (0.5'-0.75')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 96448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51395-1	CS-2 (0.5'-0.75')	Total/NA	Solid	8015NM Prep	
MB 880-96448/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96448/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96448/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7406-A-28-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7406-A-28-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51395-1	CS-2 (0.5'-0.75')	Total/NA	Solid	8015B NM	96448
MB 880-96448/1-A	Method Blank	Total/NA	Solid	8015B NM	96448
LCS 880-96448/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96448
LCSD 880-96448/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96448
890-7406-A-28-E MS	Matrix Spike	Total/NA	Solid	8015B NM	96448
890-7406-A-28-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	96448

Analysis Batch: 96551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51395-1	CS-2 (0.5'-0.75')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 96354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51395-1	CS-2 (0.5'-0.75')	Soluble	Solid	DI Leach	
MB 880-96354/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96354/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96354/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
 Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
 SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 96354 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51388-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-51388-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 96358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51395-1	CS-2 (0.5'-0.75')	Soluble	Solid	300.0	96354
MB 880-96354/1-A	Method Blank	Soluble	Solid	300.0	96354
LCS 880-96354/2-A	Lab Control Sample	Soluble	Solid	300.0	96354
LCSD 880-96354/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96354
880-51388-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	96354
880-51388-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	96354

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Lab Chronicle

Client: Carmona Resources
 Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
 SDG: Lea County, NM

Client Sample ID: CS-2 (0.5'-0.75')

Lab Sample ID: 880-51395-1

Date Collected: 11/21/24 00:00

Matrix: Solid

Date Received: 11/22/24 09:00

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	96361	11/22/24 09:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96348	11/22/24 11:37	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96530	11/22/24 11:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			96551	11/25/24 13:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96448	11/23/24 19:25	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96449	11/25/24 13:50	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	96354	11/22/24 09:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96358	11/22/24 16:04	SMC	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: Mescalero (11.07.204)

Job ID: 880-51395-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: Carmona Resources
Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
SDG: Lea County, NM

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Carmona Resources
Project/Site: Mescalero (11.07.204)

Job ID: 880-51395-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51395-1	CS-2 (0.5'-0.75')	Solid	11/21/24 00:00	11/22/24 09:00

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51395-1
SDG Number: Lea County, NM

Login Number: 51395

List Number: 1

Creator: Vasquez, Julisa

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: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

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JOB DESCRIPTION

Mescalero (11.07.2024)
Lea County NM

JOB NUMBER

880-51911-1

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



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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: Mescalero (11.07.2024)

Laboratory Job ID: 880-51911-1
SDG: Lea County NM

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
SDG: Lea County NM

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Mescalero (11.07.2024)

Job ID: 880-51911-1

Job ID: 880-51911-1

Eurofins Midland

Job Narrative 880-51911-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 12/6/2024 4:49 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: Smith Ranch Pit (880-51911-1) and (890-7441-A-1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97363 and analytical batch 880-97399 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 - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97367 and analytical batch 880-97462 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.

The associated samples are: Smith Ranch Pit (880-51911-1), (880-51666-A-1-E MS) and (880-51666-A-1-F MSD).

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
 SDG: Lea County NM

Client Sample ID: Smith Ranch Pit

Lab Sample ID: 880-51911-1

Date Collected: 12/06/24 00:00

Matrix: Solid

Date Received: 12/06/24 16:49

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		12/09/24 09:57	12/09/24 13:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 13:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 13:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/09/24 09:57	12/09/24 13:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/09/24 09:57	12/09/24 13:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/09/24 09:57	12/09/24 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/09/24 09:57	12/09/24 13:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/09/24 09:57	12/09/24 13:53	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			12/09/24 13:53	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			12/09/24 14:59	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		12/09/24 08:54	12/09/24 14:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 14:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/09/24 08:54	12/09/24 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	12/09/24 08:54	12/09/24 14:59	1
o-Terphenyl	68	S1-	70 - 130	12/09/24 08:54	12/09/24 14:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		9.96		mg/Kg			12/09/24 10:51	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-51911-1	Smith Ranch Pit	111	105
890-7444-A-8-B MS	Matrix Spike	110	104
890-7444-A-8-C MSD	Matrix Spike Duplicate	110	104
LCS 880-97375/1-A	Lab Control Sample	108	105
LCSD 880-97375/2-A	Lab Control Sample Dup	107	102
MB 880-97375/5-A	Method Blank	109	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-51911-1	Smith Ranch Pit	88	68 S1-
890-7441-A-1-B MS	Matrix Spike	83	70
890-7441-A-1-C MSD	Matrix Spike Duplicate	83	71
LCS 880-97363/2-A	Lab Control Sample	111	99
LCSD 880-97363/3-A	Lab Control Sample Dup	103	91
MB 880-97363/1-A	Method Blank	100	80

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97375/5-A
 Matrix: Solid
 Analysis Batch: 97356

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 97375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/09/24 09:57	12/09/24 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/09/24 09:57	12/09/24 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/09/24 09:57	12/09/24 11:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/09/24 09:57	12/09/24 11:49	1

Lab Sample ID: LCS 880-97375/1-A
 Matrix: Solid
 Analysis Batch: 97356

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 97375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1237		mg/Kg		124	70 - 130
Toluene	0.100	0.1193		mg/Kg		119	70 - 130
Ethylbenzene	0.100	0.1169		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2386		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1202		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-97375/2-A
 Matrix: Solid
 Analysis Batch: 97356

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 97375

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1211		mg/Kg		121	70 - 130	2	35
Toluene	0.100	0.1173		mg/Kg		117	70 - 130	2	35
Ethylbenzene	0.100	0.1154		mg/Kg		115	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2351		mg/Kg		118	70 - 130	1	35
o-Xylene	0.100	0.1193		mg/Kg		119	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7444-A-8-B MS
 Matrix: Solid
 Analysis Batch: 97356

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 97375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.101	0.1108		mg/Kg		110	70 - 130
Toluene	<0.00198	U	0.101	0.1071		mg/Kg		106	70 - 130

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QC Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
 SDG: Lea County NM

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

Lab Sample ID: 890-7444-A-8-B MS
 Matrix: Solid
 Analysis Batch: 97356

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 97375

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
Ethylbenzene	<0.00198	U	0.101	0.1045		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2112		mg/Kg		105	70 - 130
o-Xylene	<0.00198	U	0.101	0.1068		mg/Kg		106	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-7444-A-8-C MSD
 Matrix: Solid
 Analysis Batch: 97356

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 97375

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Added	Result						
Benzene	<0.00198	U	0.0998	0.1033		mg/Kg		104	70 - 130	7	35
Toluene	<0.00198	U	0.0998	0.09801		mg/Kg		98	70 - 130	9	35
Ethylbenzene	<0.00198	U	0.0998	0.09409		mg/Kg		93	70 - 130	10	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1902		mg/Kg		95	70 - 130	10	35
o-Xylene	<0.00198	U	0.0998	0.09589		mg/Kg		96	70 - 130	11	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-97363/1-A
 Matrix: Solid
 Analysis Batch: 97399

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 97363

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		12/09/24 08:54	12/09/24 10:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/09/24 08:54	12/09/24 10:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	100		70 - 130	12/09/24 08:54	12/09/24 10:02	1
o-Terphenyl	80		70 - 130	12/09/24 08:54	12/09/24 10:02	1

Lab Sample ID: LCS 880-97363/2-A
 Matrix: Solid
 Analysis Batch: 97399

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 97363

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1013		mg/Kg		101	70 - 130

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QC Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
 SDG: Lea County NM

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

Lab Sample ID: LCS 880-97363/2-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97363

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	111		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-97363/3-A
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97363

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1121		mg/Kg		112	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	1000	914.6		mg/Kg		91	70 - 130	10	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-7441-A-1-B MS
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97363

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	752.2		mg/Kg		76	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	636.4	F1	mg/Kg		64	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	83		70 - 130
o-Terphenyl	70		70 - 130

Lab Sample ID: 890-7441-A-1-C MSD
Matrix: Solid
Analysis Batch: 97399

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97363

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	768.6		mg/Kg		77	70 - 130	2
Diesel Range Organics (Over C10-C28)	<50.0	U F1	994	660.1	F1	mg/Kg		66	70 - 130	4

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	83		70 - 130
o-Terphenyl	71		70 - 130

QC Sample Results

Client: Carmona Resources
 Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97367/1-A
 Matrix: Solid
 Analysis Batch: 97462

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/09/24 09:53	1

Lab Sample ID: LCS 880-97367/2-A
 Matrix: Solid
 Analysis Batch: 97462

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-97367/3-A
 Matrix: Solid
 Analysis Batch: 97462

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	252.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-51666-A-1-E MS
 Matrix: Solid
 Analysis Batch: 97462

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	82.2	F1	251	372.7	F1	mg/Kg		116	90 - 110

Lab Sample ID: 880-51666-A-1-F MSD
 Matrix: Solid
 Analysis Batch: 97462

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	82.2	F1	251	373.4	F1	mg/Kg		116	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
 Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
 SDG: Lea County NM

GC VOA

Analysis Batch: 97356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51911-1	Smith Ranch Pit	Total/NA	Solid	8021B	97375
MB 880-97375/5-A	Method Blank	Total/NA	Solid	8021B	97375
LCS 880-97375/1-A	Lab Control Sample	Total/NA	Solid	8021B	97375
LCSD 880-97375/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97375
890-7444-A-8-B MS	Matrix Spike	Total/NA	Solid	8021B	97375
890-7444-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	97375

Prep Batch: 97375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51911-1	Smith Ranch Pit	Total/NA	Solid	5035	
MB 880-97375/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97375/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97375/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7444-A-8-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7444-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 97461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51911-1	Smith Ranch Pit	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51911-1	Smith Ranch Pit	Total/NA	Solid	8015NM Prep	
MB 880-97363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7441-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7441-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51911-1	Smith Ranch Pit	Total/NA	Solid	8015B NM	97363
MB 880-97363/1-A	Method Blank	Total/NA	Solid	8015B NM	97363
LCS 880-97363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97363
LCSD 880-97363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97363
890-7441-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	97363
890-7441-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	97363

Analysis Batch: 97459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51911-1	Smith Ranch Pit	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51911-1	Smith Ranch Pit	Soluble	Solid	DI Leach	
MB 880-97367/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97367/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97367/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 97367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51666-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-51666-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 97462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51911-1	Smith Ranch Pit	Soluble	Solid	300.0	97367
MB 880-97367/1-A	Method Blank	Soluble	Solid	300.0	97367
LCS 880-97367/2-A	Lab Control Sample	Soluble	Solid	300.0	97367
LCSD 880-97367/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97367
880-51666-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	97367
880-51666-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	97367

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- 11
- 12
- 13
- 14

Lab Chronicle

Client: Carmona Resources
 Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
 SDG: Lea County NM

Client Sample ID: Smith Ranch Pit

Lab Sample ID: 880-51911-1

Date Collected: 12/06/24 00:00

Matrix: Solid

Date Received: 12/06/24 16:49

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	97375	12/09/24 09:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	97356	12/09/24 13:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			97461	12/09/24 13:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			97459	12/09/24 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	97363	12/09/24 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	97399	12/09/24 14:59	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	97367	12/09/24 09:17	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97462	12/09/24 10:51	SMC	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: Mescalero (11.07.2024)

Job ID: 880-51911-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: Carmona Resources
Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Carmona Resources
Project/Site: Mescalero (11.07.2024)

Job ID: 880-51911-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51911-1	Smith Ranch Pit	Solid	12/06/24 00:00	12/06/24 16:49

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-51911-1
SDG Number: Lea County NM

Login Number: 51911
List Number: 1
Creator: Lee, Randell

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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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 420012

QUESTIONS

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 420012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2431326911
Incident Name	NAPP2431326911 MESCALERO 7 6 1BS FEDERAL COM #001H @ 30-025-49963
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-025-49963] MESCALERO 7 6 1BS FEDERAL COM #001H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	MESCALERO 7 6 1BS FEDERAL COM #001H
Date Release Discovered	11/07/2024
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Normal Operations Valve Crude Oil Released: 23 BBL Recovered: 21 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 420012

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 420012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: cassie.whitefield@deleklogistics.com Date: 01/13/2025
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QUESTIONS, Page 3

Action 420012

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 420012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	3240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	24590
GRO+DRO (EPA SW-846 Method 8015M)	22100
BTEX (EPA SW-846 Method 8021B or 8260B)	958
Benzene (EPA SW-846 Method 8021B or 8260B)	51.4

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

On what estimated date will the remediation commence	11/18/2024
On what date will (or did) the final sampling or liner inspection occur	11/19/2024
On what date will (or was) the remediation complete(d)	11/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	5280
What is the estimated volume (in cubic yards) that will be remediated	288

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 420012

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 420012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: cassie.whitefield@deleklogistics.com Date: 01/13/2025
--	--

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

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Action 420012

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 420012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Please see Section 7.0 of the closure report & correspondence in Appendix C. Contamination directly under elevated flowlines and conduits were attempted to be removed via hydrovac but caused too much structural instability under the support racks that the pipes risked bending and falling into the excavation, which would cause a secondary release. The deferred area in figure 4 has been delineated.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	450
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	160
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Mescalero 7-6 Fed Com Battery [fAPP2315139356]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: cassie.whitefield@deleklogistics.com Date: 01/13/2025

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Action 420012

QUESTIONS (continued)

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 420012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	403457
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/18/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	2800

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 420012

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 420012
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of CS-26 through CS-25 and SW-5, SW-6 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	1/31/2025