



SITE INFORMATION

Closure Report
Denton 5 SWD
Lea County, New Mexico
Unit N Sec 02 T15S R37E
33.041141°, -103.173094°

Incident Number: NSAP0127670627
Produced Water Release
Point of Release: Rupture in line
Release Date: 10/03/2001
Volume Released: Unknown Volume
Volume Recovered: Unknown Volume

Incident Number: NPAC0614540738
Produced Water Release
Point of Release: Tank overflow due to pump failure
Release Date: 05/23/2006
Volume Released: 125 barrels of Produced Water
Volume Recovered: 80 barrels of Produced Water

CARMONA RESOURCES

Incident Number: NPAC0730337383
Crude Oil Release
Point of Release: Tank overflow
Release Date: 10/22/2007
Volume Released: 20 barrels of Produced Water
Volume Recovered: 15 barrels of Produced Water



Incident Number: nGL0916227517
Crude Oil Release
Point of Release: Lighting Strike
Release Date: 05/03/2009
Volume Released: 50 barrels of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

Prepared for:
Fasken Oil and Ranch, Ltd
6101 Holiday Hill Road
Midland, Texas 79707

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

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January 12, 2024

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

**Re: Closure Report
Denton 5 SWD
Fasken Oil and Ranch, Ltd
Site Location: Unit N, S02, T15S, R37E
(Lat 33.041141°, Long -103.173094°)
Lea County, New Mexico**

To whom it may concern:

On behalf of Fasken Oil and Ranch, Ltd (Fasken), Carmona Resources, LLC has prepared this letter to document the Denton 5 SWD site activities. The site is located at 33.041141°, -103.173094° within Unit N, S02, T15S, R37E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

NSAP0127670627

Based on the incident details in the New Mexico Oil Conservation Division (NMOCD) permitting portal, the release was discovered on October 3, 2001, due to a rupture in a line. An unknown amount was released, and an unknown amount was recovered. See Figure 3 for the area of concern located on the pad. The NMOCD permitting documentation is attached in Appendix C.

NPAC0614540738

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 23, 2006, due to pump failure causing a tank to overflow. It resulted in the release of approximately one hundred and twenty-five (125) barrels of produced water, and eighty (80) barrels of produced water were recovered. See Figure 3 for the area of concern located on the pad. The initial C-141 form is attached in Appendix C.

NPAC0730337383

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered due to a tank overflow on October 22, 2007. It resulted in the release of approximately twenty (20) barrels of crude oil, and fifteen (15) barrels of crude oil were recovered. See Figure 3 for the area of concern located on the pad. The initial C-141 form is attached in Appendix C.

nGL0916227517

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on May 3, 2009, due to a lightning strike. It resulted in the release of approximately fifty (50) barrels of crude oil, and zero (0) barrels of crude oil were recovered. See Figure 3 for the area of concern located on the pad. The initial C-141 form is attached in Appendix C.

On March 7, 2023, the NMOCD approved a variance for 400 sq. ft composite sampling. The approved work plan correspondence 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, one known water source is located within a 0.50-mile radius of the location and drilled within 25 years. It is approximately 0.26 miles from the site in S02, T15S, R37E and was drilled in 1997. The well has a reported depth to groundwater of 84.0' feet below the ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

On September 29, 2022, Fasken performed site assessment activities to evaluate soil impacts stemming from the multiple releases. A total of six (6) backhoe samples (BH-1 through BH-6) and four (4) horizontal sample points (North, South, East, and West) and a background sample (BG) were installed to depths ranging from the surface – 4' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix D. Refer to Table 1.

All initial samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill and reclamation activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on May 30, 2023, and June 5, 2023, per Subsection D of 19.15.29.12 NMAC. The NMSLO was notified via email on May 30, 2023, and June 5, 2023, per the NMSLO document Communication with the Environmental Compliance Office. See Appendix C. A total of ninety-four (94) floor confirmation samples were collected (CS-1 through CS-94), and thirteen (13) sidewall samples (SW-1 through SW-13) were collected every 400 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 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 4A/B.

The composite confirmation floor samples and sidewalls in exceedance were excavated an additional 0.25' - 0.5' to remove all impacted material, and the samples were recollected and submitted to the lab.

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



Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Based on further investigation, once all the facility equipment and tanks were removed, additional material was hauled to disposal from under the tanks. The firewall material was tested and found to be impacted. Approximately 5,060 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Reclamation Activities

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The areas were drill seeded on June 23, 2023, during the summer to help aid the growth process. The appropriate pounds of pure live seed per acre were used. The seed mixture was spread by a tractor and a seed drill equipped with a depth regulator. The seed mixture used was the SLO Loamy mixture, as requested and approved by the SLO (See attachments in Appendix F).

7.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

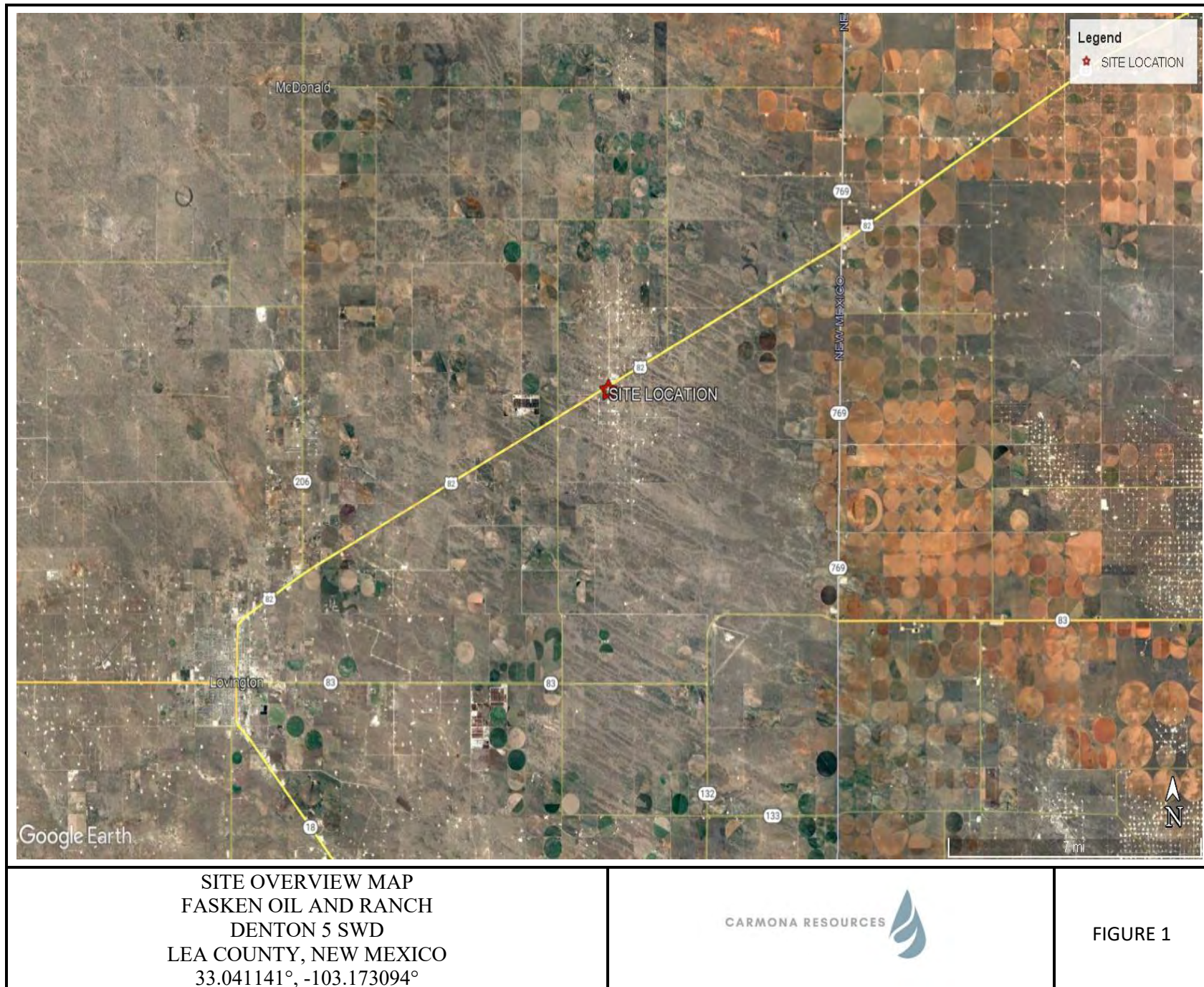
Mike Carmona
Environmental Manager

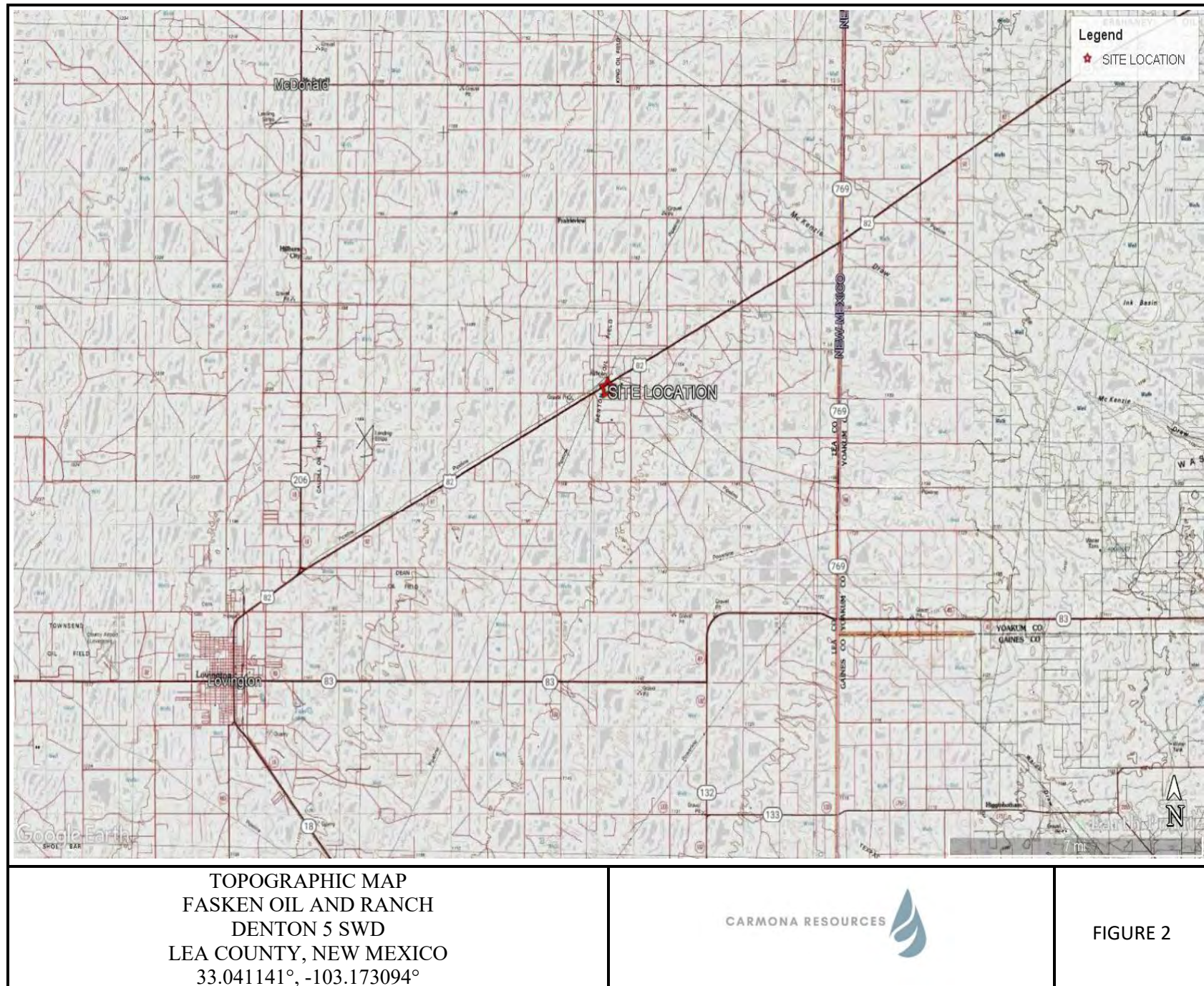
Conner Moehring
Sr Project Manager

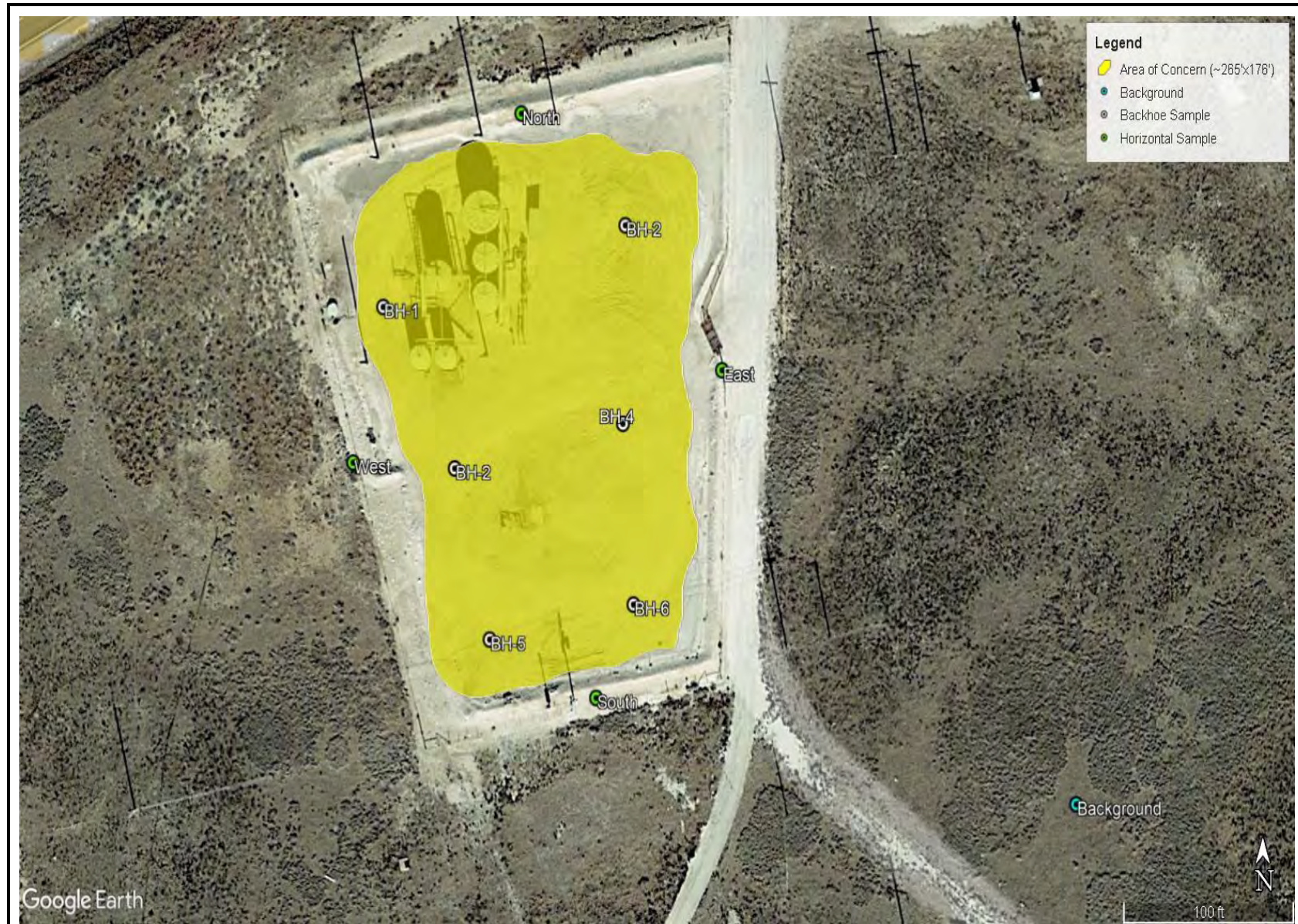
FIGURES

CARMONA RESOURCES









SAMPLE LOCATION MAP
FASKEN OIL AND RANCH
DENTON 5 SWD
LEA COUNTY, NEW MEXICO
33.041141°, -103.173094°



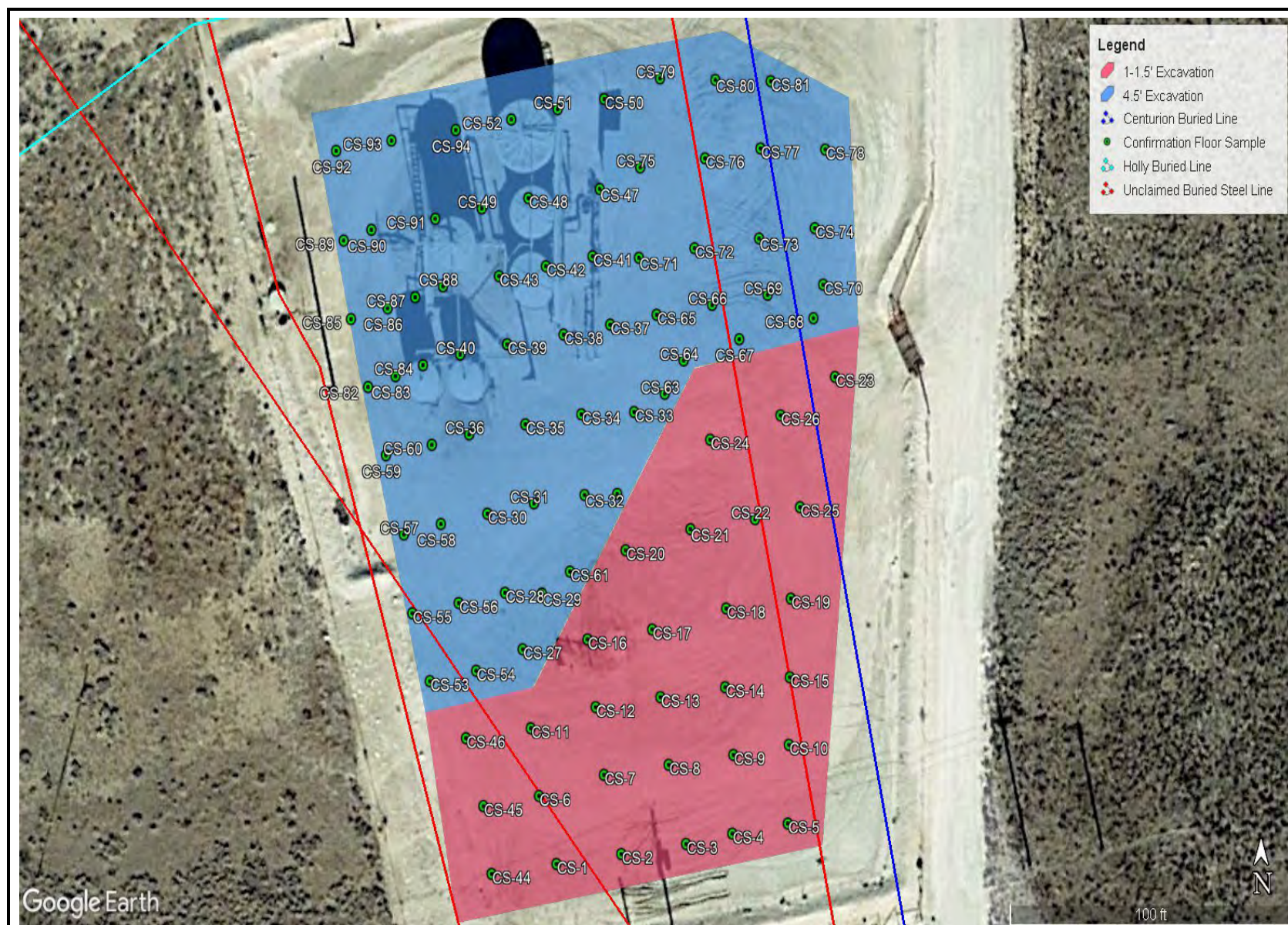
FIGURE 3



EXCAVATION OVERVIEW MAP
FASKEN OIL AND RANCH
DENTON 5 SWD
LEA COUNTY, NEW MEXICO
33.041141°, -103.173094°



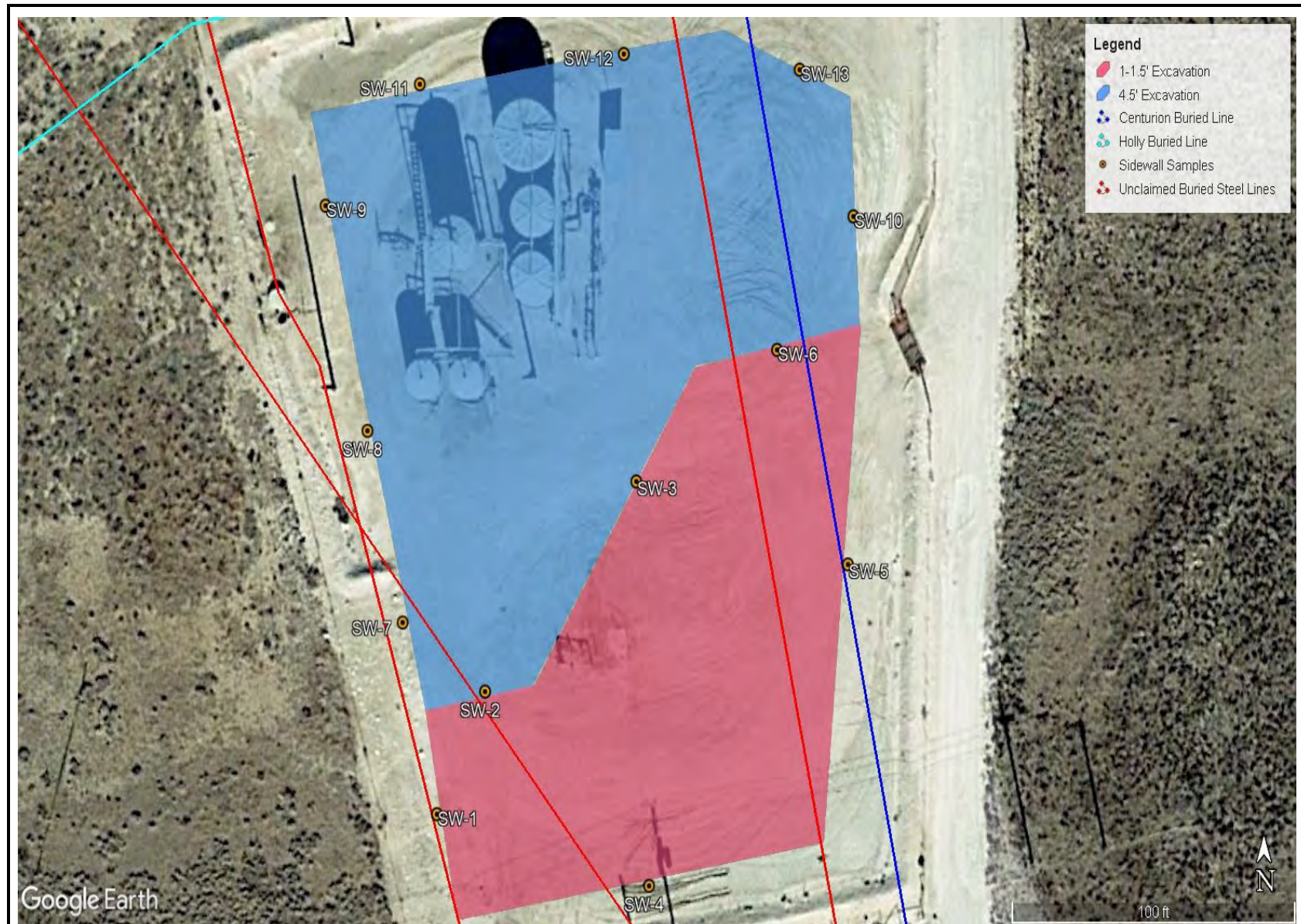
FIGURE 4



EXCAVATION MAP
 FASKEN OIL AND RANCH
 DENTON 5 SWD
 LEA COUNTY, NEW MEXICO
 33.041141°, -103.173094°



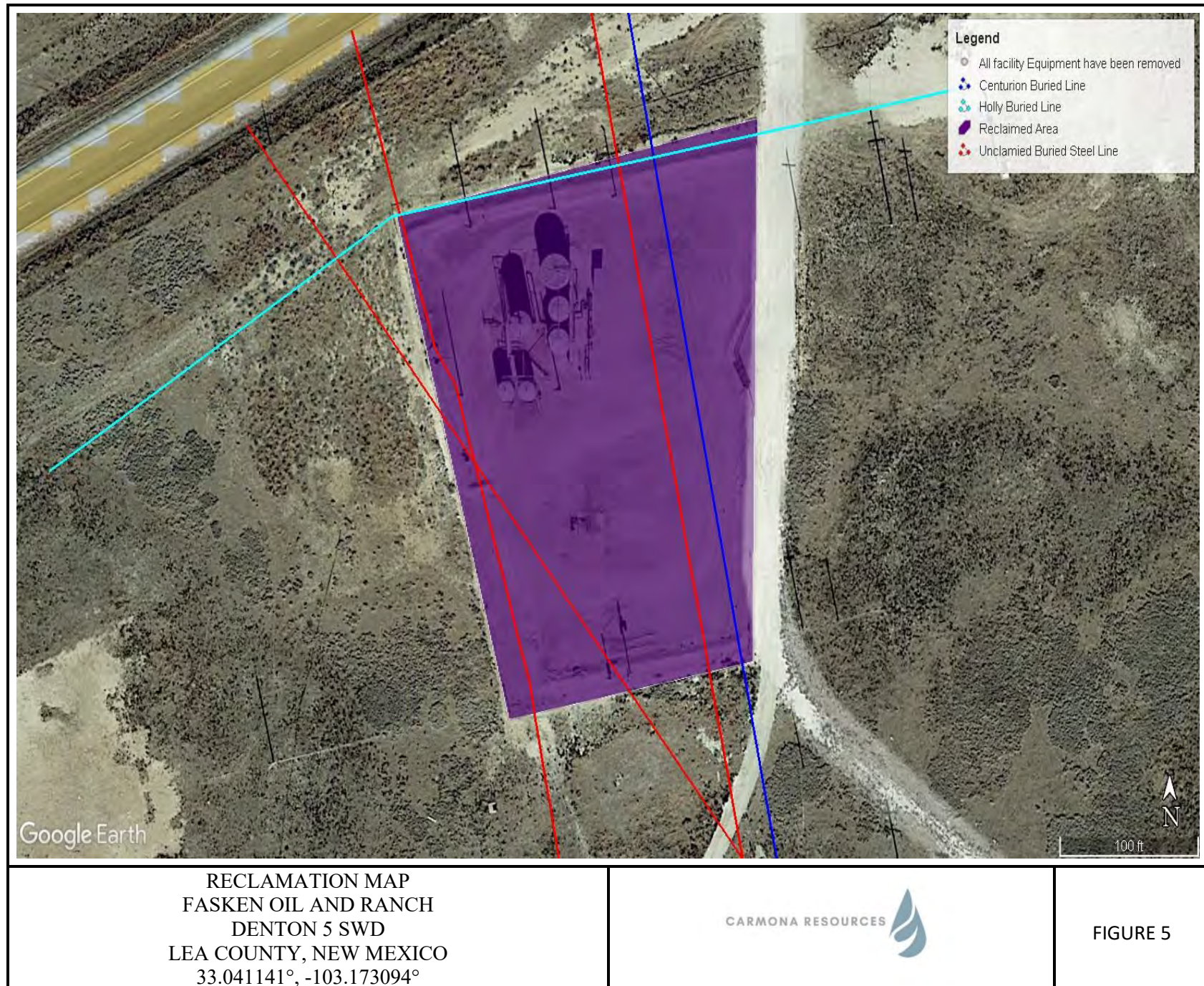
FIGURE 4A



EXCAVATION MAP
FASKEN OIL AND RANCH
DENTON 5 SWD
LEA COUNTY, NEW MEXICO
33.041141°, -103.173094°



FIGURE 4B



APPENDIX A

CARMONA RESOURCES



Table 1
Fasken Oil and Ranch
Denton 5 SWD
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						
BH-1	9/29/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,570
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,180
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,260
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,750
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,280
BH-2	9/29/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,080
	"	1.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	454
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	464
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	733
	"	4.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	761
BH-3	9/29/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	4,020
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,640
	"	2.0	<49.9	226	<49.9	226	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,200
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,580
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,630
BH-4	9/29/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,440
	"	1.0	<50.0	52.7	<50.0	52.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	354
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	304
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	316
	"	4.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	518
BH-5	9/29/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,660
	"	1.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00396	<0.00396	337
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	438
	"	3.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	442
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	572
BH-6	9/29/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,080
	"	1.0	<49.9	109	<49.9	109	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	293
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	435
	"	3.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	255
	"	4.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	322
NORTH	9/29/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	251
SOUTH	9/29/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	88.5
EAST	9/29/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	437
WEST	9/29/2022	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	31.2
BACKGROUND	9/29/2022	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	15.1
Regulatory Criteria^A			1,000 mg/kg		2,500 mg/kg		10 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(BH) - Backhoe Sample

Removed

Table 2
Fasken Oil and Ranch
Denton 5 SWD
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	6/2/2023	1.0	<49.9	76.3	<49.9	76.3	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	549
CS-2	6/2/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	643
	6/8/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-3	6/2/2023	1.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	688
	6/8/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-4	6/2/2023	1.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	566
CS-5	6/2/2023	1.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	225
CS-6	6/2/2023	1.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	295
CS-7	6/2/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	444
CS-8	6/2/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	329
CS-9	6/2/2023	1.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	887
	6/8/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
CS-10	6/2/2023	1.0	<49.9	102	<49.9	102	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	588
	6/8/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-11	6/2/2023	1.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	320
CS-12	6/2/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	838
	6/8/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-13	6/2/2023	1.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	511
CS-14	6/2/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	317
CS-15	6/2/2023	1.0	<49.9	58.2	<49.9	58.2	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	308
CS-16	6/2/2023	1.0	<49.8	105	<49.8	105	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	330
	6/8/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	652
	6/9/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	23.9
CS-17	6/2/2023	1.0	<50.0	441	<50.0	441	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	361
	6/8/2023	1.25	<10.0	82.7	63.5	156	<0.050	<0.050	<0.050	<0.150	<0.300	432
	6/9/2023	1.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	31.8
CS-18	6/2/2023	1.0	<50.0	319	<50.0	319	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	537
	6/8/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
CS-19	6/2/2023	1.0	<49.9	275	<49.9	275	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	484
	6/8/2023	1.25	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
CS-20	6/2/2023	1.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	187
CS-21	6/2/2023	1.0	<50.0	52.1	<50.0	52.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	191
CS-22	6/2/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	196
CS-23	6/2/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	228
CS-24	6/2/2023	1.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	233
CS-25	6/2/2023	1.0	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	267
Regulatory Criteria ^A			1,000 mg/kg		2,500 mg/kg		10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

Removed

Table 2
Fasken Oil and Ranch
Denton 5 SWD
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-26	6/2/2023	1.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	248
CS-27	6/2/2023	4.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	105
CS-28	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	87.3
CS-29	6/2/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,780
CS-30	6/2/2023	4.5	<49.9	303	66.2	369	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	3,550
CS-31	6/2/2023	4.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	849
CS-32	6/2/2023	4.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	290
CS-33	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	241
CS-34	6/2/2023	4.5	<49.9	62.0	<49.9	62.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	1,760
CS-35	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	507
CS-36	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	461
CS-37	6/2/2023	4.5	<49.8	284	85.4	369	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	538
CS-38	6/2/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	242
CS-39	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	142
CS-40	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	653
CS-41	6/2/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,000
CS-42	6/2/2023	4.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	217
CS-43	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	79.4
CS-44	6/2/2023	4.5	<49.8	375	<49.8	375	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	631
CS-45	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	245
CS-46	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	215
CS-47	6/2/2023	4.5	<49.9	63.0	<49.9	63.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,100
CS-48	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	231
CS-49	6/2/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	67.8
CS-50	6/2/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	67.0
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

Removed

Table 2
Fasken Oil and Ranch
Denton 5 SWD
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-51	6/2/2023	4.5	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	165
CS-52	6/2/2023	4.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,180
CS-53	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
CS-54	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
CS-55	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
CS-56	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,310
CS-57	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
CS-58	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-59	6/7/2023	4.5	<10.0	138	75.3	213	<0.050	<0.050	<0.050	<0.150	<0.300	944
CS-60	6/7/2023	4.5	<10.0	18.2	<10.0	18.2	<0.050	<0.050	<0.050	<0.150	<0.300	320
CS-61	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
CS-62	6/7/2023	4.5	<10.0	46.7	56.9	104	<0.050	<0.050	<0.050	<0.150	<0.300	1,280
CS-63	6/7/2023	4.5	<10.0	47.3	114	161	<0.050	<0.050	<0.050	<0.150	<0.300	208
CS-64	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,060
CS-65	6/7/2023	4.5	<10.0	38.5	38.7	77.3	<0.050	<0.050	<0.050	<0.150	<0.300	656
CS-66	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	800
CS-67	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
CS-68	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
CS-69	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
CS-70	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,340
CS-71	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	656
CS-72	6/7/2023	4.5	<10.0	164	89.1	253	<0.050	<0.050	<0.050	<0.150	<0.300	960
CS-73	6/7/2023	4.5	<10.0	20.6	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
CS-74	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
CS-75	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

Removed

Table 2
Fasken Oil and Ranch
Denton 5 SWD
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-76	6/7/2023	4.5	<10.0	40.9	48.9	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
CS-77	6/7/2023	4.5	<10.0	238	106	344	<0.050	<0.050	<0.050	<0.150	<0.300	864
CS-78	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,140
CS-79	6/7/2023	4.5	<10.0	87.4	39.6	127	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-80	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,460
CS-81	6/7/2023	4.5	<10.0	115	57.4	173	<0.050	<0.050	<0.050	<0.150	<0.300	1,380
CS-82	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-83	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,090
CS-84	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,570
CS-85	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	656
CS-86	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,070
CS-87	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
CS-88	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,420
CS-89	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,140
CS-90	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-91	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-92	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	864
CS-93	6/7/2023	4.5	<10.0	19.1	<10.0	19.1	<0.050	<0.050	<0.050	<0.150	<0.300	1,010
CS-94	6/7/2023	4.5	<10.0	11.4	<10.0	11.4	<0.050	<0.050	<0.050	<0.150	<0.300	304
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

 Removed

Table 2
Fasken Oil and Ranch
Denton 5 SWD
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	6/2/2023	1.0	<49.8	232	97.7	330	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	440
	6/8/2023	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-2	6/2/2023	3.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	168
SW-3	6/2/2023	3.5	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	202
SW-4	6/7/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-5	6/7/2023	1.0	<10.0	63.1	35.4	98.6	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-6	6/7/2023	3.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-7	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
SW-8	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-9	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
SW-10	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-11	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
SW-12	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
SW-13	6/7/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
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

(SW) Sidewall Sample

 Removed

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG**Fasken Oil and Ranch****Photograph No. 1****Facility:** Denton 5 SWD**County:** Lea County, New Mexico**Description:**

View of the pad, area of backhoe samples (1-6).

**Photograph No. 2****Facility:** Denton 5 SWD**County:** Lea County, New Mexico**Description:**

View of the pad, area of backhoe samples (1-6).

**Photograph No. 3****Facility:** Denton 5 SWD**County:** Lea County, New Mexico**Description:**

View of the pad, area of backhoe samples (1-6).



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 4

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (1-26) & (44-46).



Photograph No. 5

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (1-22) & (44-46).



Photograph No. 6

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (1-26) & (44-46).



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 7

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (27-43), (47-63) & (82-94).



Photograph No. 8

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (27-40), (53-60) & (82-84).



Photograph No. 9

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (27-43), (47-63) & (82-94).



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 10

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (64-81).



Photograph No. 11

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (27-40), (53-60) & (82-84).



Photograph No. 12

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View of the excavation, area of confirmation samples (27-43), (47-63) & (82-94).



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 13

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View Southeast, of the the reclamation area reseeded.



Photograph No. 14

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View Southeast, of the tractor reseeding the reclamation area.



Photograph No. 15

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View North, of the tractor reseeding the reclamation area.



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 16

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View North of a disturbed area after being reseeded.



Photograph No. 17

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View South of the lease road and the reseeded reclamation area.



Photograph No. 18

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View Northwest, of the reseeded reclamation area.



PHOTOGRAPHIC LOG

Fasken Oil and Ranch

Photograph No. 19

Facility: Denton 5 SWD

County: Lea County, New Mexico

Description:

View Northeast of reseeding



APPENDIX C

CARMONA RESOURCES



OCD Permitting

Home Searches Incidents Incident Details

NSAP0127670627 DENTON SWD #005 @ 30-025-05226

General Incident Information

Site Name: DENTON SWD #005
Well: [30-025-05226] DENTON SWD #005
Facility:
Operator: [151416] FASKEN OIL & RANCH LTD
Status: Closure Not Approved, Pending submission of C-141 from the operator
Type: Produced Water Release Severity:
Surface Owner: State
County: Lea (25)
District: Hobbs
Incident Location: N-02-15S-37E 660 FSL 1980 FWL
Lat/Long: 33.0410194,-103.1731262 NAD83
Directions:

Notes

Source of Referral: Industry Rep Action / Escalation:
Resulted In Fire: ☐ Resulted In Injury: ☐
Endangered Public Health: ☐ Will or Has Reached Watercourse: ☐
Fresh Water Contamination: ☐ Property Or Environmental Damage: ☐

Contact Details

Contact Name: Contact Title:

Event Dates

Date of Discovery: 10/03/2001 Initial C-141 Report Due: 10/18/2001
Remediation Closure Report Due: 11/13/2018

Incident Dates

Type	Action	Received	Denied	Approved
Remediation Closure Report Extension		08/15/2018		08/15/2018

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Quick

- [Gene](#)
- [Mater](#)
- [Event](#)
- [Order](#)
- [Actior](#)

Asso

- Incide
- [Well f](#)

New

- [New f](#)
- [New J](#)
- [New C](#)
- [New f](#)
- [New S](#)
- [New I](#)
- [New \](#)

Incident Events

Date	Detail
10/03/2001	SHUT OFF WATER SOURCE AND VACUUM UP FLUID. HAS BEEN IN SERVICE FOR A FEW YEARS AND ARE CURRENTLY DIGGING UP LINE & WILL REPLACE WHATS NEEDED. WILL DIG BACK 40' ON BOTH SIDES OF RUPTURE.

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC?	
☐ Yes ☒ No	

Incident Corrective Actions

- No initial response data was found for this incident.
- No site characterization data was found for this incident.
- No remediation plan data was found for this incident.
- No active remediation deferral request was found for this incident.
- No remediation closure report data was found for this incident.
- No reclamation report data was found for this incident.
- No re-vegetation report data was found for this incident.

Orders

No Orders Found

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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Americo Energy	Contact Oscar Nosrati
Address 10940 Old Katy Road, Houston, TX 77043	Telephone No. 713-984-9700
Facility Name Denton SWD #5 Release	Facility Type SWD

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

LOCATION OF RELEASE

API# 30025 05226 0000

Unit Letter N	Section 2	Township 15S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	--------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

41'

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Produced Fluids	Volume of Release: 125 bbls	Volume Recovered: 80 bbls
Source of Release: Overflow from transfer pump failure	Date and Hour of Occurrence 5/23/06	Date and Hour of Discovery 5/23/06
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Tank overflow due to transfer pump failure

Describe Area Affected and Cleanup Action Taken.*
A vacuum truck was called in to recover standing fluid. SESI was called to assess cleanup.

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

Signature:		OIL CONSERVATION DIVISION	
Printed Name: Bob Allen		Approved by District Supervisor:	
Title: Consultant	Approval Date:	Expiration Date:	
E-mail Address: ballen@sesi-nm.com	Conditions of Approval:		Attached ☐
Date 5/23/06	Phone: 505-397-0510		

* Attach Additional Sheets If Necessary

incident - nPAC06 14540738
application - nPAC06 14540876

OCD Permitting

Home Searches Incidents Incident Details

NPAC0730337383 2007 MINOR A OS @ 30-025-05226

General Incident Information

Site Name:

Well: [30-025-05226] DENTON SWD #005

Facility:

Operator: [151416] FASKEN OIL & RANCH LTD

Status: Closure Not Approved

Type: Oil Release

District: Hobbs

Severity: Minor

Surface Owner: State

County: Lea (25)

Incident Location: N-02-15S-37E 660 FSL 1980 FWL

Lat/Long: 33.0410194,-103.1731262 NAD83

Directions:

Notes

Source of Referral: Industry Rep

Action / Escalation:

Resulted In Fire: ☐

Will or Has Reached Watercourse: ☐

Endangered Public Health: ☐

Property Or Environmental Damage: ☐

Fresh Water Contamination: ☐

Contact Details

Contact Name:

Contact Title:

Event Dates

Date of Discovery: 10/22/2007

OCD Notified of Release:

Extension Date: 11/15/2018

Cancelled Date:

Initial C-141 Received:

Characterization Report Approved:

Characterization Report Received:

Remediation Plan Approved:

Remediation Plan Received:

Remediation Due:

Closure Report Approved:

Closure Report Received:

- Quick Links
- General Incident Informati
 - Materials
 - Events
 - Orders
- Associated Images
- Incident Files (0)
 - Well Files (91)
- New Searches
- New Facility Search
 - New Incident Search
 - New Operator Search
 - New Pit Search
 - New Spill Search
 - New Tank Search
 - New Well Search

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incidents Materials

Cause	Source	Material	Volume				Units
			Unk.	Released	Recovered	Lost	
Other	Tank (Any)	Crude Oil	☐	20	15	5	BBL

Incident Events

Date	Detail
10/30/2007	C-141: slug into disposal system caused skimmed oil tank to run over.

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[Searches](#) [Operator Data](#) [Hearing Fee Application](#)

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

[EMNRD Home](#) [OCD Main Page](#) [OCD Rules](#) [Help](#)

District I

1625 N French Dr, Hobbs, NM 88240

District II

1301 W Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S St Francis Dr, Santa Fe, NM 87505

RECEIVED

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

Form C-141

Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action**OPERATOR**☒ Initial Report ☒ Final Report

Name of Company Fasken Oil and Ranch, Ltd.	Contact Jimmy D. Carlile
Address 303 W. Wall, Ste. 31800, Midland, TX	Telephone No. 432-687-1777
Facility Name Denton SWD No. 5	Facility Type SWD Battery
Surface Owner State of New Mexico	Mineral Owner Fee
	Lease No. 303195

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	2	15S	37E	660'	South	1980'	West	Lea

API No. 30-025-05226

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil	Volume of Release 50	Volume Recovered 0
Source of Release Gun Barrel	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? 5/31/09 8:00 pm 5/31/09 8 pm Mark - on call representative at OCD	
By Whom? Jimmy D. Carlile	Date and Hour 5/31/09 9:00 pm MST	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Lightening hit gun barrel blowing roof off and causing a fire. Local fire department was called and responded. Gun barrel taken out of service. 50 barrels of crude burned in the vessel.

Describe Area Affected and Cleanup Action Taken.*

No surface area affected. Rain water and water used by fire department removed via vacuum truck.

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

OIL CONSERVATION DIVISIONSignature *Jimmy D. Carlile*

Printed Name: Jimmy D. Carlile

Title: Regulatory Affairs Coordinator

E-mail Address: jimmyc@forl.com

Date: 6-4-09

Phone: 432-687-1777

DENIED ENV ENGR
Approved by District Supervisor

Approval Date: _____

Expiration Date: _____

Conditions of Approval: DENY AND
SUBMIT WORKPLAN FOR
APPROVAL BY NMOCD.

Attached ☐

IRP-09-6-2197

* Attach Additional Sheets If Necessary

AGRL 0916227018

DENIED

06/08/09
Jeffrey LeKing
NMOCD-HUBBS

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NSAP0127870827nPAC0814540738mPAC0730337383mGR
District RP	
Facility ID	
Application ID	

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

Printed Name: Addison Guelker

Title: Environmental Tech

Signature: 

Date: 1/19/24

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	NSAP0127670627nPAC0614540738nPAC0730337383nGR
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Addison Guelker

Title: Environmental Analyst

Signature: 

Date: 1/19/24

email: addisong@forl.com

Telephone: 432-687-1777

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

From: Buchanan, Michael, EMNRD
Sent: Wednesday, May 31, 2023 4:54 PM
To: Enviro, OCD, EMNRD; Conner Moehring
Cc: Mike Carmona; Addison Guelker; GrantH@forl.com; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Fasken - Denton 5 SWD - Sampling Notification

Good afternoon, Mr. Moehring

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Mike Buchanan

From: Buchanan, Michael, EMNRD **On Behalf Of** Enviro, OCD, EMNRD
Sent: Wednesday, May 31, 2023 3:54 PM
To: 'Conner Moehring' <Cmoehring@carmonaresources.com>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Addison Guelker <addisong@forl.com>; GrantH@forl.com; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Fasken - Denton 5 SWD - Sampling Notification

Good afternoon, Mr. Moehring

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Mike Buchanan

From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Tuesday, May 30, 2023 7:19 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; Addison Guelker <addisong@forl.com>; GrantH@forl.com
Subject: [EXTERNAL] Fasken - Denton 5 SWD - Sampling Notification

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

Good Morning,

On behalf of Fasken, Carmona Resources will collect confirmation samples for the below site on 06/01/23. Sampling is scheduled to begin as early as 10:00 a.m. (MST) Thursday, June 1st, weather and soil conditions permitting. Please let me know if you have any questions.

Fasken – Denton 5 SWD
NPAC0614540738
NPAC0730337383
Sec 02 T15S R37E Unit N
33.041141, -103.173094
Lea County, New Mexico

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



From: SLO Spills
Sent: Tuesday, May 30, 2023 8:23 AM
To: Conner Moehring; Griffin, Becky R.
Cc: Mike Carmona; GrantH@forl.com; Addison Guelker
Subject: RE: Fasken - Denton 5 SWD - Sampling Notification

Thank you for the notification.

Environmental Compliance Office
Surface Resources Division
New Mexico State Land Office
nmstatelands.org



From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Tuesday, May 30, 2023 7:19 AM
To: SLO Spills <spills@slo.state.nm.us>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; GrantH@forl.com; Addison Guelker <addisong@forl.com>
Subject: [EXTERNAL] Fasken - Denton 5 SWD - Sampling Notification

Good Morning,

On behalf of Fasken, Carmona Resources will collect confirmation samples for the below site on 06/01/23. Sampling is scheduled to begin as early as 10:00 a.m. (MST) Thursday, June 1st, weather and soil conditions permitting. Please let me know if you have any questions.

Fasken – Denton 5 SWD
NPAC0614540738
NPAC0730337383
Sec 02 T15S R37E Unit N
33.041141, -103.173094
Lea County, New Mexico

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

Cmoehring@carmonaresources.com



From: Enviro, OCD, EMNRD
Sent: Tuesday, June 6, 2023 10:17 AM
To: Conner Moehring
Cc: Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Fasken - Denton 5 SWD - Sampling Notification

Conner,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Monday, June 5, 2023 8:59 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; GrantH@forl.com; Addison Guelker <addisong@forl.com>
Subject: [EXTERNAL] Fasken - Denton 5 SWD - Sampling Notification

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Good Morning,

On behalf of Fasken, Carmona Resources will continue to collect confirmation samples for the below site on 06/07/23. Sampling is scheduled to begin as early as 10:00 a.m. (MST) Wednesday, June 7th, weather and soil conditions permitting. Please let me know if you have any questions.

Fasken – Denton 5 SWD
NPAC0614540738
NPAC0730337383
Sec 02 T15S R37E Unit N

33.041141, -103.173094
Lea County, New Mexico

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



From: SLO Spills
Sent: Monday, June 5, 2023 10:29 AM
To: Conner Moehring
Subject: RE: Fasken - Denton 5 SWD - Sampling Notification

Received.

Environmental Compliance Office
Surface Resources Division
New Mexico State Land Office
nmstatelands.org



From: Conner Moehring <Cmoehring@carmonaresources.com>
Sent: Monday, June 5, 2023 8:59 AM
To: SLO Spills <spills@slo.state.nm.us>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>; GrantH@forl.com; Addison Guelker <addisong@forl.com>
Subject: [EXTERNAL] Fasken - Denton 5 SWD - Sampling Notification

Good Morning,

On behalf of Fasken, Carmona Resources will continue to collect confirmation samples for the below site on 06/07/23. Sampling is scheduled to begin as early as 10:00 a.m. (MST) Wednesday, June 7th, weather and soil conditions permitting. Please let me know if you have any questions.

Fasken – Denton 5 SWD
NPAC0614540738
NPAC0730337383
Sec 02 T15S R37E Unit N
33.041141, -103.173094
Lea County, New Mexico

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



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

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

CONDITIONS

Action 192815

CONDITIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 192815
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Confirmation samples must be representatvie of no more than 400 square feet.	3/7/2023
bhall	Submit a complete report though the OCD Permitting website by 6/9/2023.	3/7/2023

From: Addison Guelker
Sent: Friday, May 12, 2023 11:17 AM
To: Mike Carmona; Conner Moehring
Cc: Grant Huckabay
Subject: FW: [EXTERNAL] RE: The Oil Conservation Division (OCD) has approved the application, Application ID: 192824

Mike,

OCD gave us a 90 day extension just FYI on the Denton 5 SWD.

Thanks,



Addison Guelker
Environmental Analyst
Bus: 432-687-1777

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Thursday, May 11, 2023 11:27 AM
To: Addison Guelker <addisong@forl.com>
Cc: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has approved the application, Application ID: 192824

FASKEN SECURITY ALERT

Warning: Sender @Brittany.Hall@emnrd.nm.gov has never sent any emails to your organization. Please be careful before replying or clicking on the URLs.

powered by Graphus®

Addison,

The extension requests for NPAC0614540738, NPAC0730337383, nGL0916227517 are approved. The new date for the 3 releases is 9/9/2023.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd/>

From: Addison Guelker <addisong@forl.com>

Sent: Wednesday, May 10, 2023 9:23 AM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Cc: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has approved the application, Application ID: 192824

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

Good morning Brittany,

We had an approved workplan for 3 different open spills for the same location, Denton #5 SWD (Attached). Incident numbers are NPAC0614540738, NPAC0730337383, nGL0916227517. Our 90 days to do the work expires 6/9/23. The State Land Office owns the surface of this location, and they wanted to approve our workplan for the remediation, and the reclamation of the site. It took longer than we had intended to get their blessing, and then to get multiple bids from contractors and line out when they could start took some time as well. If all goes according to plan, we should commence operations 5/22/23, but we will not be able to complete the work by the deadline; therefore, we would like to request a 90 day extension to get the remediation and reclamation completed.

Thanks,



Addison Guelker

Environmental Analyst

Bus: 432-687-1777

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Tuesday, March 7, 2023 9:07 AM

To: Addison Guelker <addisong@forl.com>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 192824

To whom it may concern (c/o Addison Long for FASKEN OIL & RANCH LTD),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nGRL0916227517, with the following conditions:

- **Confirmation samples must be representative of no more than 400 square feet.**
- **Submit a complete report through the OCD Permitting website by 6/9/2023.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Brittany Hall
Projects Environmental Specialist - A
505-517-5333
Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

APPENDIX D

CARMONA RESOURCES



Nearest water well

Fasken Oil and Ranch

Legend

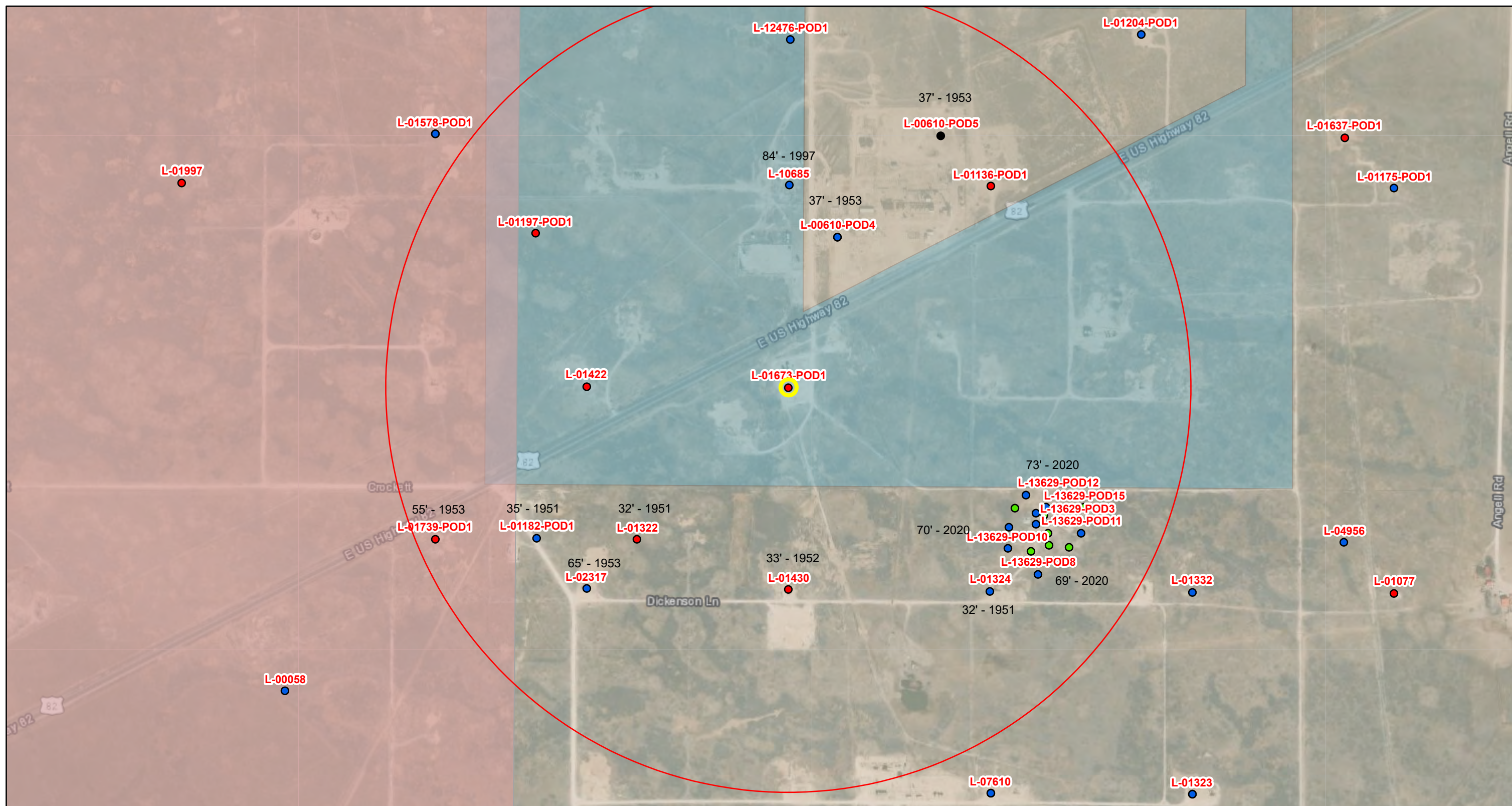
- 0.16 Miles
- 0.16 Miles
- 0.21 Miles
- 0.22 Miles
- 0.23 Miles
- 0.25 Miles
- 0.30 Miles
- 0.30 Miles
- 0.31 Miles
- 0.32 Miles
- 0.50 Mile Radius
- Area of Concern
- Denton SWD #005
- NMSEO Water Well
- USGS Water Well



2000 ft

N

OSE POD Locations Map



4/4/2023, 3:13:35 PM

GIS WATERS PODs  OSE District Boundary

- Active
- Pending
- Inactive
- Plugged

Water Right Regulations

 Critical Management Area - Guidelines

 Closure Area

New Mexico State Trust Lands

 Subsurface Estate

 Both Estates

 SiteBoundaries

A scale bar for the map. The top scale is in miles, with markings at 0, 0.07, 0.15, and 0.3. The bottom scale is in kilometers, with markings at 0, 0.15, 0.3, and 0.6. The text '1:9,028' is centered above the bar, indicating the scale ratio.

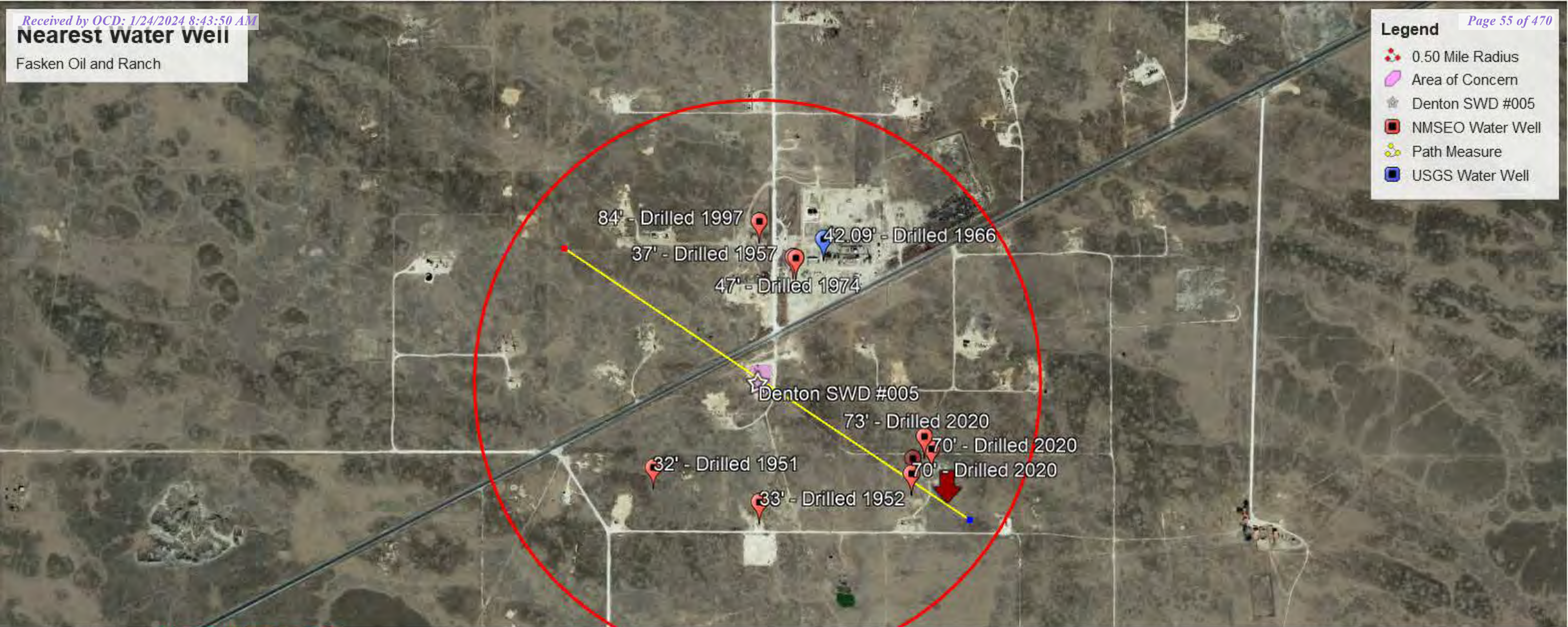
Esri, HERE, iPC, U.S. Department of Energy Office of
Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Nearest Water Well

Fasken Oil and Ranch

Legend

- 0.50 Mile Radius
- Area of Concern
- Denton SWD #005
- NMSEO Water Well
- Path Measure
- USGS Water Well



Graph: Min, Avg, Max Elevation: 3794, 3800, 3804 ft
Range Totals: Distance: 0.87 mi Elev Gain/Loss: 18.7 ft, -26.7 ft Max Slope: 11.4%, -9.6% Avg Slope: 0.8%, -1.0%

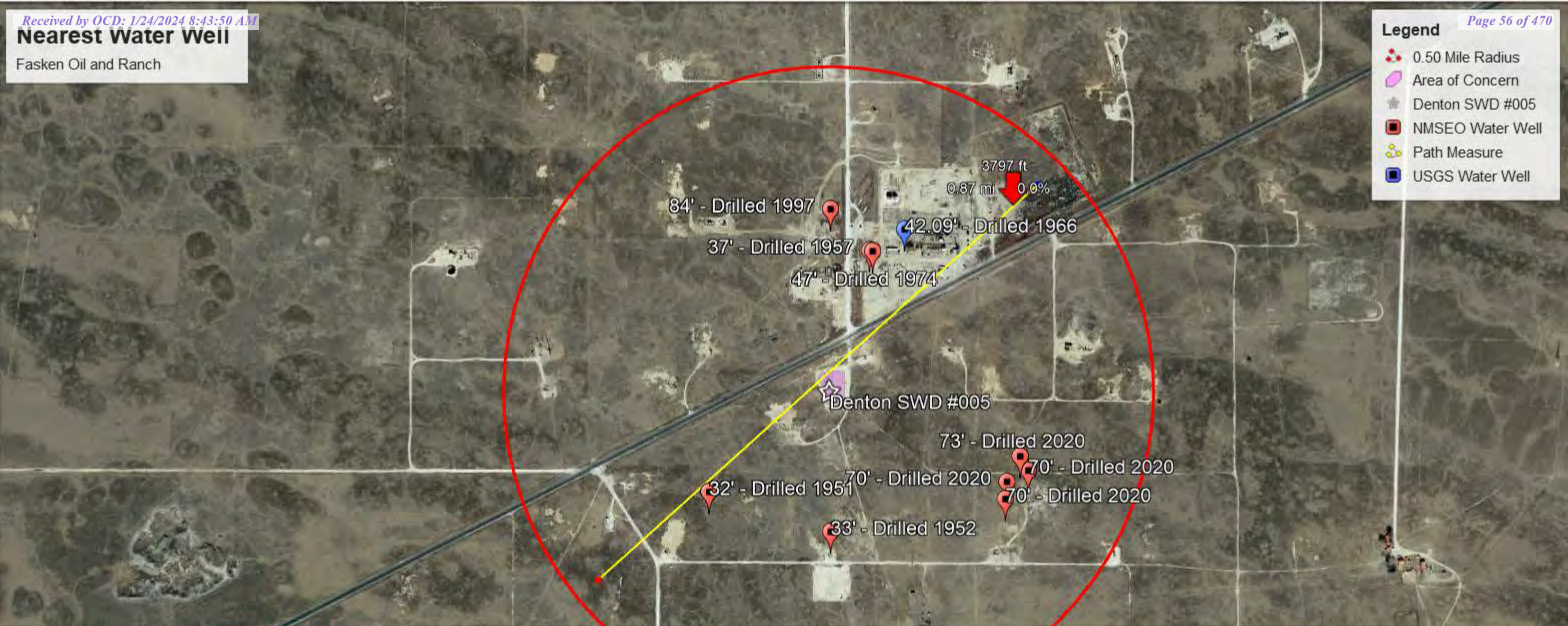


Nearest Water Well

Fasken Oil and Ranch

Legend

- 0.50 Mile Radius
- Area of Concern
- Denton SWD #005
- NMSEO Water Well
- Path Measure
- USGS Water Well



Graph: Min, Avg, Max Elevation: 3796, 3800, 3804 ft
Range Totals: Distance: 0.92 mi Elev Gain/Loss: 26.3 ft, -32.4 ft Max Slope: 11.7%, -9.6% Avg Slope: 1.0%, -1.2%

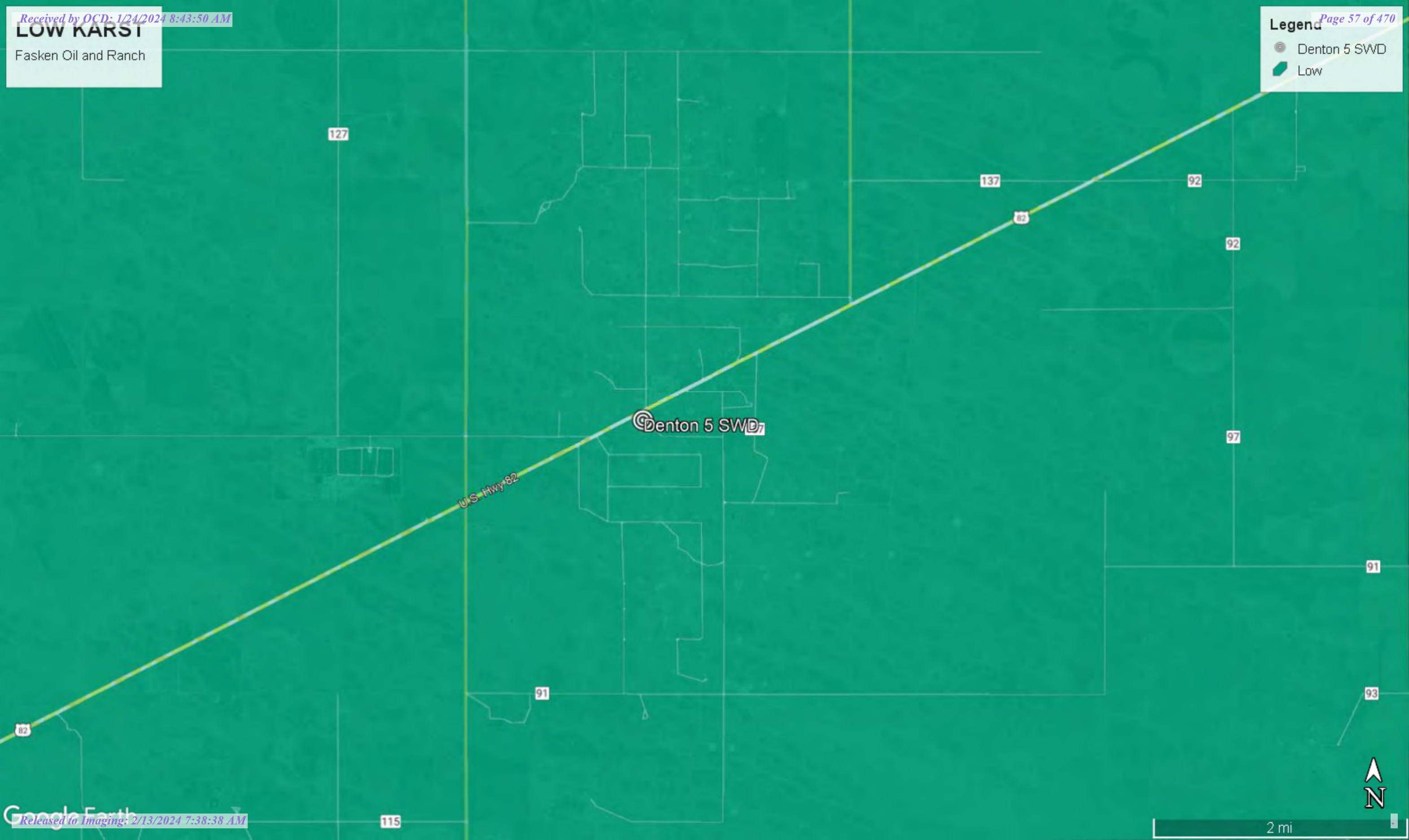


LOW KARST

Fasken Oil and Ranch

Legend

- Denton 5 SWD
- Low





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
L	00610 POD4	4	2	3	02	15S	37E	670687	3657616*		

Driller License:	79	Driller Company:	ALDREDGE, D.O.		
Driller Name:	ALDREDGE, C.O.				
Drill Start Date:	05/13/1953	Drill Finish Date:	05/21/1953	Plug Date:	
Log File Date:	06/05/1957	PCW Rev Date:	07/23/1958	Source:	Shallow
Pump Type:	TURBIN	Pipe Discharge Size:	8	Estimated Yield:	1000 GPM
Casing Size:	13.38	Depth Well:	120 feet	Depth Water:	37 feet

Water Bearing Stratifications:	Top	Bottom	Description
	37	65	Shallow Alluvium/Basin Fill
	65	105	Shallow Alluvium/Basin Fill
	105	120	Shallow Alluvium/Basin Fill

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
L	07198	4	2	3	02	15S	37E	670687	3657616*				
x													
Driller License:		571	Driller Company:			"GLASSPOOLE, GEORGE ""BILL"" W.E "							
Driller Name:		GEORGE W GLASSPOOLE											
Drill Start Date:		04/22/1974	Drill Finish Date:			05/05/1974	Plug Date:						
Log File Date:		05/21/1974	PCW Rev Date:					Source:	Shallow				
Pump Type:		Pipe Discharge Size:					Estimated Yield:						
Casing Size:		6.00	Depth Well:			125 feet	Depth Water:		47 feet				
x													

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National Water Information System: Web Interface
USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 330226103101901

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

USGS 330226103101901 15S.37E.02.324214

Lea County, New Mexico
Latitude 33°02'39", Longitude 103°10'16" NAD27
Land-surface elevation 3,799.10 feet above NGVD29
The depth of the well is 120 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) 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
1961-03-03			D	62610	3762.77	NGVD29	1		Z	
1961-03-03			D	62611	3764.08	NAVD88	1		Z	
1961-03-03			D	72019	36.33		1		Z	
1966-02-18			D	62610	3757.01	NGVD29	1		Z	
1966-02-18			D	62611	3758.32	NAVD88	1		Z	
1966-02-18			D	72019	42.09		1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2023-04-10 21:06:12 EDT
0.28 0.25 nadww02



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
L	10685		2	3	02	15S	37E	670588	3657717*		

Driller License:	854	Driller Company:	GARY KIDD
Driller Name:	KIDD, GARY (LD)		
Drill Start Date:	06/20/1997	Drill Finish Date:	06/23/1997
Log File Date:	07/23/1997	PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	5.00	Depth Well:	150 feet
		Plug Date:	
		Source:	Shallow
		Estimated Yield:	16 GPM
		Depth Water:	84 feet

Water Bearing Stratifications:		Top	Bottom	Description
		84	150	Other/Unknown

Casing Perforations:		Top	Bottom
		110	150

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	01430		2	1	11	15S	37E	670601	3656913*
Driller License: 35		Driller Company:		AQUA DRILLING CO.					
Driller Name:									
Drill Start Date: 04/14/1952		Drill Finish Date:		04/14/1952		Plug Date:		12/01/1952	
Log File Date: 04/28/1952		PCW Rev Date:		11/02/1953		Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 7.00		Depth Well:		120 feet		Depth Water:		33 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		33	34	Sandstone/Gravel/Conglomerate					
		63	65	Sandstone/Gravel/Conglomerate					
		87	90	Sandstone/Gravel/Conglomerate					
		110	120	Sandstone/Gravel/Conglomerate					

*UTM location was derived from PLSS - see Help

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4/11/23 7:16 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	01322	2	1	1	11	15S	37E	670296	3657007*

Driller License:	35	Driller Company:	AQUA DRILLING CO.		
Driller Name:	TATUM, ROY L.				
Drill Start Date:	12/19/1951	Drill Finish Date:	12/20/1951	Plug Date:	11/10/1952
Log File Date:	01/28/1952	PCW Rev Date:	04/20/1953	Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	7.00	Depth Well:	120 feet	Depth Water:	32 feet

Water Bearing Stratifications:	Top	Bottom	Description
	32	33	Sandstone/Gravel/Conglomerate
	65	67	Sandstone/Gravel/Conglomerate
	88	90	Sandstone/Gravel/Conglomerate
	110	120	Sandstone/Gravel/Conglomerate

*UTM location was derived from PLSS - see Help

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4/11/23 7:20 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	L 13692 POD9	2	1	2	11	15S	37E	671040	3657045 
Driller License: 1456		Driller Company:		WHITE DRILLING COMPANY					
Driller Name:		WHITE, JOHNNOWN.GENER							
Drill Start Date: 04/14/2020		Drill Finish Date:		04/15/2020		Plug Date:			
Log File Date: 05/21/2020		PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 2.00		Depth Well:		90 feet		Depth Water:		70 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		25	90	Sandstone/Gravel/Conglomerate					
Casing Perforations:		Top	Bottom						
		60	90						

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4/11/23 7:29 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	L 13629 POD7	2	1	2	11	15S	37E	671073	3657109 
Driller License: 1456		Driller Company:		WHITE DRILLING COMPANY					
Driller Name:		WHITE, JOHNNOWN.GENER							
Drill Start Date: 04/14/2020		Drill Finish Date:		04/15/2020		Plug Date:			
Log File Date: 05/21/2020		PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 2.00		Depth Well:		90 feet		Depth Water:		73 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		35	90	Sandstone/Gravel/Conglomerate					
Casing Perforations:		Top	Bottom						
		60	90						

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4/11/23 7:22 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	L 13629 POD10	2	1	2	11	15S	37E	671037	3657002 
Driller License: 1456		Driller Company:		WHITE DRILLING COMPANY					
Driller Name:		WHITE, JOHNNOWN.GENER							
Drill Start Date: 04/13/2020		Drill Finish Date:		04/15/2020		Plug Date:			
Log File Date: 05/21/2020		PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size: 2.00		Depth Well:		90 feet		Depth Water:		70 feet	
Water Bearing Stratifications:				Top	Bottom	Description			
				44	90	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				60	90				

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4/11/23 7:31 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
NA	L 13629 POD13	2	1	2	11	15S	37E	671093	3657074				
Driller License:	1456	Driller Company:				WHITE DRILLING COMPANY							
Driller Name:	WHITE, JOHNNOWN.GENER												
Drill Start Date:	03/10/2020	Drill Finish Date:				04/16/2020		Plug Date:					
Log File Date:	04/28/2020	PCW Rcv Date:						Source:				Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:					
Casing Size:	4.00	Depth Well:				90 feet		Depth Water:				70 feet	
		Casing Perforations:			Top	Bottom							
					60	90							

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4/11/23 7:36 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 01673 POD1	L	LE		4	3	02	15S	37E		670594	3657315*	3	120		
L 00610 POD4	L	LE		4	2	3	02	15S	37E	670687	3657616*	314	120	37	83
L 07198	L	LE		4	2	3	02	15S	37E	670687	3657616*	314	125	47	78
L 10685	L	LE		2	3	02	15S	37E		670588	3657717*	400	150	84	66
L 01422	L	LE		3	3	02	15S	37E		670190	3657310*	401	100		
L 01430	L	LE		2	1	11	15S	37E		670601	3656913*	404	120	33	87
L 01322	L	LE		2	1	1	11	15S	37E	670296	3657007*	427	120	32	88
L 13629 POD7	L	LE		2	1	2	11	15S	37E	671073	3657109	524	90	73	17
L 13692 POD9	L	LE		2	1	2	11	15S	37E	671040	3657045	524	90	70	20
L 13629 POD10	L	LE		2	1	2	11	15S	37E	671037	3657002	545	90	70	20
L 13629 POD13	L	LE		2	1	2	11	15S	37E	671093	3657074	557	90	70	20
L 02317	L	LE		1	1	11	15S	37E		670197	3656908*	567	110	65	45
L 13629 POD16	L	LE		2	1	2	11	15S	37E	671094	3657050	568	90	70	20
L 01136 POD1	L	LE		1	4	02	15S	37E		670991	3657722*	569	118		
L 13629 POD14	L	LE		2	1	2	11	15S	37E	671112	3657085	570	90	70	20
L 01324	L	LE		1	2	11	15S	37E		671004	3656917*	574	120	32	88
L 01182 POD1	L	LE		1	1	1	11	15S	37E	670096	3657007*	584	110	35	75
L 13629 POD12	L	LE		2	1	2	11	15S	37E	671138	3657111	584	90	72	18
L 00610 POD5	R	L	LE	1	1	4	02	15S	37E	670890	3657821*	586	120	37	83
L 01197 POD1	L	LE		3	1	3	02	15S	37E	670083	3657612*	587	112		
L 13629 POD8	L	LE		2	1	2	11	15S	37E	671100	3656952	625	90	69	21
L 13629 POD11	L	LE		2	1	2	11	15S	37E	671184	3657035	656	90	71	19
L 01739 POD1	L	LE		2	2	2	10	15S	37E	669893	3657001*	766	110	55	55
L 01095	L	LE		4	1	02	15S	37E		670581	3658120*	803	120		
L 01578 POD1	L	LE		2	2	4	03	15S	37E	669879	3657806*	863	115	55	60
L 01118 POD1	L	LE		3	1	02	15S	37E		670178	3658115*	898	108		

*UTM location was derived from PLSS - see Help

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 01283	L	LE		3	2	11	15S	37E		671012	3656515*	905	120	40	80
L 07610	L	LE		3	2	11	15S	37E		671012	3656515*	905	100		
L 01332	L	LE		2	2	11	15S	37E		671408	3656922*	907	115	32	83
L 01204 POD1	L	LE		3	4	2	02	15S	37E	671286	3658028*	994	100	40	60
L 01321	L	LE		4	2	11	15S	37E		671415	3656520*	1146	120	32	88
L 01323	L	LE		4	2	11	15S	37E		671415	3656520*	1146	120	32	88
L 01117 POD1	L	LE		3	4	2	11	15S	37E	671314	3656419*	1152	120	50	70
L 04956	L	LE		1	1	1	12	15S	37E	671710	3657026*	1156	100	43	57
L 00058	L	LE				2	10	15S	37E	669598	3656694*	1172	112		
L 01637 POD1	L	LE		1	1	3	01	15S	37E	671696	3657831*	1218	109	50	59
L 01284	L	LE		1	2	02	15S	37E		670978	3658527*	1270	108	48	60
L 01224 POD1	L	LE		1	1	02	15S	37E		670172	3658517*	1271	115	33	82
L 01997	L	LE		1	4	03	15S	37E		669375	3657701*	1275	120	33	87
L 01175 POD1	L	LE		1	3	01	15S	37E		671797	3657732*	1275	120	33	87
L 01077	L	LE		1	1	12	15S	37E		671811	3656927*	1280	120		
L 02302	L	LE		2	2	4	11	15S	37E	671521	3656216*	1441	80	45	35
L 01285	L	LE		2	2	02	15S	37E		671380	3658531*	1447	112	52	60
L 02268	L	LE		2	4	10	15S	37E		669808	3656097*	1449		55	
L 01293	L	LE		2	2	03	15S	37E		669767	3658511*	1450	113	45	68
L 01297	L	LE		3	1	01	15S	37E		671790	3658134*	1450	115	45	70
L 01491	L	LE		3	1	01	15S	37E		671790	3658134*	1450	117	45	72
L 01560 POD1	L	LE		4	3	3	35	14S	37E	670265	3658812*	1530	120	33	87
L 01942	L	LE		3	3	35	14S	37E		670166	3658913*	1651	110	55	55
L 01092	L	LE		3	4	35	14S	37E		670971	3658925*	1652	75	40	35
L 01573 POD1	L	LE		3	4	35	14S	37E		670971	3658925*	1652	60	30	30
L 01320	L	LE		3	4	11	15S	37E		671026	3655710*	1664	120	32	88
L 01447	L	LE		1	1	01	15S	37E		671783	3658536*	1704	113	45	68
L 01568 POD1	L	LE		1	3	12	15S	37E		671826	3656122*	1718	120	38	82
L 03929	L	LE		1	4	1	01	15S	37E	672092	3658239*	1761	100	55	45

*UTM location was derived from PLSS - see Help

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& no longer serves a
water right file.)

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O=orphaned,
C=the file is
closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 02391	L	LE		3	3	3	11	15S	37E	670118	3655599*	1781	80	37	43
L 01665 POD1	L	LE			4	4	35	14S	37E	671374	3658931*	1793	110	30	80
L 14299 POD1	L	LE		3	3	3	11	15S	37E	670136	3655563	1811	210	84	126
L 14152 POD17	L	LE		2	1	2	14	15S	37E	671132	3655522	1874	89	65	24
L 14152 POD23	L	LE		2	1	2	14	15S	37E	671166	3655528	1878	89	65	24
L 14152 POD20	L	LE		3	4	4	11	15S	37E	671250	3655547	1888	89	65	24
L 14152 POD24	L	LE		2	1	2	14	15S	37E	671225	3655508	1916	89	65	24
L 14152 POD18	L	LE		2	1	2	14	15S	37E	671140	3655466	1930	89	65	24
L 01110 POD1	L	LE		1	1	2	14	15S	37E	670932	3655407*	1940	115		
L 07665	L	LE		4	4	4	11	15S	37E	671529	3655614*	1944	126	40	86
L 14152 POD21	L	LE		1	2	2	14	15S	37E	671288	3655501	1944	89	65	24
L 14152 POD22	L	LE		4	3	4	11	15S	37E	671227	3655455	1967	89	65	24
L 14152 POD16	L	LE		1	2	2	14	15S	37E	671273	3655439	1997	90	65	25
L 14152 POD19	L	LE		2	1	2	14	15S	37E	671188	3655404	2003	90	65	25
L 01683 POD1	L	LE			3	3	36	14S	37E	671776	3658938*	2007	115	55	60
L 01587 POD1	L	LE			2	1	01	15S	37E	672186	3658542*	2011	115	55	60
L 01080	L	LE		1	2	2	14	15S	37E	671336	3655412*	2045	120	32	88
L 13485 POD1	L	LE		3	4	2	10	15S	37E	669192	3655778	2079	180	103	77
L 13564 POD1	L	LE		2	2	1	01	15S	37E	672315	3658559	2125	270	95	175
L 08594	L	LE		3	1	3	03	15S	37E	668466	3657588*	2142	150	90	60
L 08598	L	LE		3	1	3	03	15S	37E	668466	3657588*	2142	150	90	60
L 02222	L	LE			2	4	35	14S	37E	671366	3659334*	2160	130	50	80
L 00956 POD1	L	LE			2	2	15	15S	37E	669823	3655292*	2165	112		
L 01207 POD1	L	LE			2	2	15	15S	37E	669823	3655292*	2165	120	32	88
L 01237	L	LE			2	2	15	15S	37E	669823	3655292*	2165	110	38	72
L 09926	L	LE		1	1	4	12	15S	37E	672433	3656142	2184	150	75	75
L 01199 POD1	L	LE		2	4	1	14	15S	37E	670736	3654999*	2322	121	37	84
L 01045	L	LE		1	3	2	14	15S	37E	670939	3655004*	2339	100	35	65
L 06625	L	LE		3	2	2	12	15S	37E	672920	3656845*	2376	130	80	50

*UTM location was derived from PLSS - see Help

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code basin		Q Q Q Q				Sec	Tws	Rng	X	Y	Distance	Depth	Depth	Water
			64	16	4	4							Well	Water	Column
L 01488	L	LE	4	1	35	14S	37E		670553	3659724*		2407	115	36	79
L 01403	L	LE	2	4	3	36	14S	37E	672278	3659043*		2413	80	60	20

Average Depth to Water: 52 feet

Minimum Depth: 30 feet

Maximum Depth: 103 feet

Record Count: 86

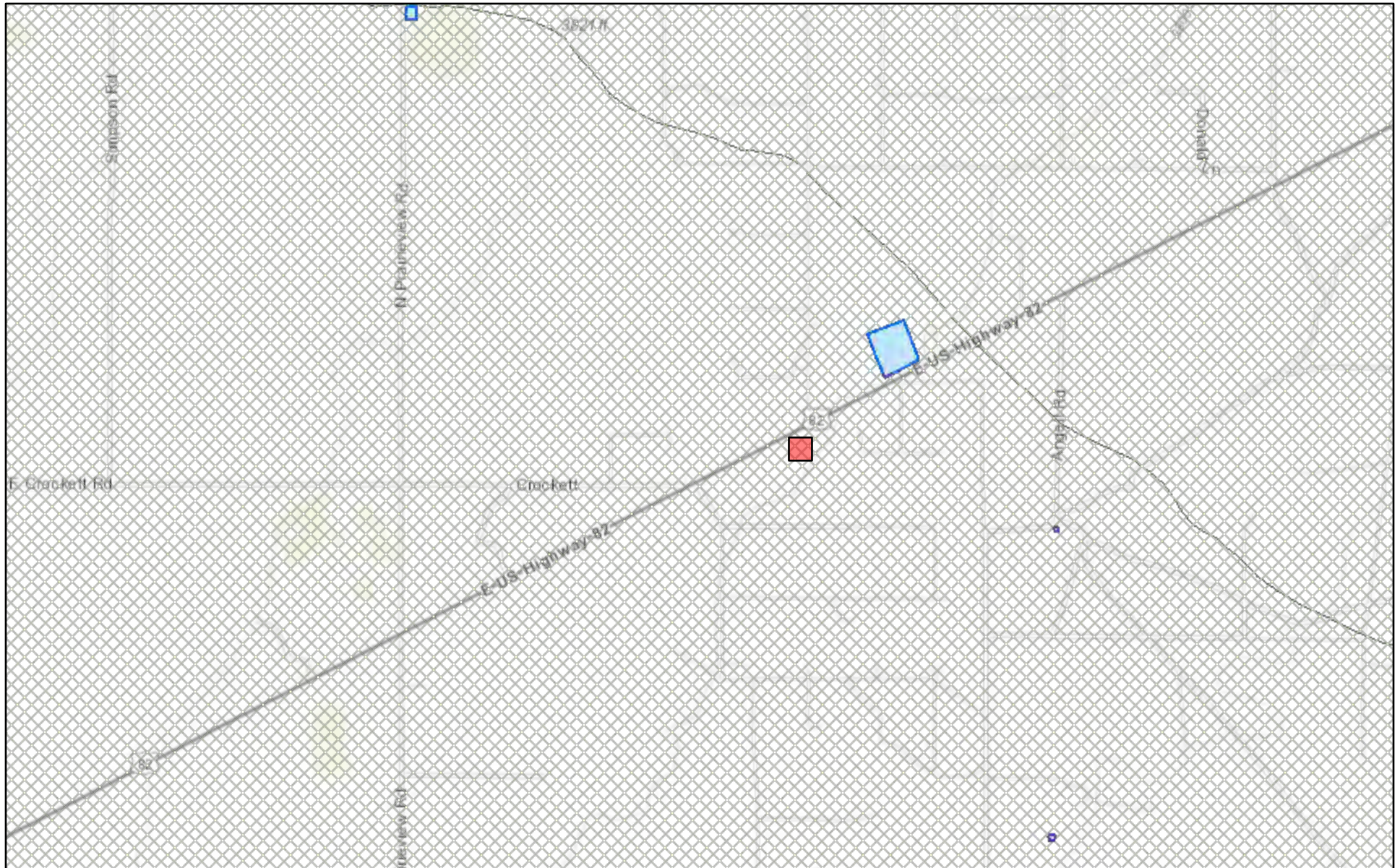
UTMNAD83 Radius Search (in meters):

Easting (X): 670591

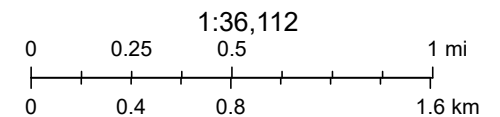
Northing (Y): 3657317

Radius: 2500

New Mexico NFHL Data



April 10, 2023



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

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APPENDIX E

CARMONA RESOURCES





Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19825-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Denton #5 SWD

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

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

Authorized for release by:

10/5/2022 10:23:12 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Laboratory Job ID: 880-19825-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Job ID: 880-19825-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-19825-1****Receipt**

The samples were received on 9/29/2022 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: BH1 (880-19825-1), BH2 (880-19825-2), BH3 (880-19825-3), BH4 (880-19825-4), BH5 (880-19825-5) and BH6 (880-19825-6).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35805 and analytical batch 880-35863 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3075-A-1-B), (890-3075-A-1-C MS) and (890-3075-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-19834-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35802 and analytical batch 880-35924 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19825-1

Date Collected: 09/29/22 08:45

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/05/22 01:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/05/22 01:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/05/22 01:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/05/22 01:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/05/22 01:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/05/22 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/30/22 14:23	10/05/22 01:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/30/22 14:23	10/05/22 01:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/05/22 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 17:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 17:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/30/22 08:47	09/30/22 17:22	1
o-Terphenyl	102		70 - 130	09/30/22 08:47	09/30/22 17:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1570		24.9		mg/Kg			10/03/22 10:26	5

Client Sample ID: BH2

Lab Sample ID: 880-19825-2

Date Collected: 09/29/22 08:55

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/30/22 14:23	10/05/22 02:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/30/22 14:23	10/05/22 02:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/30/22 14:23	10/05/22 02:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/30/22 14:23	10/05/22 02:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/30/22 14:23	10/05/22 02:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/30/22 14:23	10/05/22 02:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/30/22 14:23	10/05/22 02:07	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Client Sample ID: BH2

Lab Sample ID: 880-19825-2

Date Collected: 09/29/22 08:55

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	09/30/22 14:23	10/05/22 02:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/05/22 10:47	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			10/03/22 11:24	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		09/30/22 08:47	09/30/22 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				09/30/22 08:47	09/30/22 17:44	1
o-Terphenyl	92		70 - 130				09/30/22 08:47	09/30/22 17:44	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		5.04		mg/Kg			10/03/22 10:41	1

Client Sample ID: BH3

Lab Sample ID: 880-19825-3

Date Collected: 09/29/22 09:05

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

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		09/30/22 14:23	10/05/22 02:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/30/22 14:23	10/05/22 02:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/30/22 14:23	10/05/22 02:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/30/22 14:23	10/05/22 02:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/30/22 14:23	10/05/22 02:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/30/22 14:23	10/05/22 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/30/22 14:23	10/05/22 02:27	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/30/22 14:23	10/05/22 02:27	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			10/05/22 10:47	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			10/03/22 11:24	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Client Sample ID: BH3

Lab Sample ID: 880-19825-3

Date Collected: 09/29/22 09:05

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

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		09/30/22 08:47	09/30/22 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 18:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/30/22 08:47	09/30/22 18:05	1
o-Terphenyl	105		70 - 130				09/30/22 08:47	09/30/22 18:05	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4020		25.2		mg/Kg			10/03/22 10:46	5

Client Sample ID: BH4

Lab Sample ID: 880-19825-4

Date Collected: 09/29/22 09:15

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/05/22 02:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/05/22 02:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/05/22 02:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/22 14:23	10/05/22 02:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/05/22 02:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/22 14:23	10/05/22 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/30/22 14:23	10/05/22 02:47	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/30/22 14:23	10/05/22 02:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/05/22 10:47	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			10/03/22 11:24	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		09/30/22 08:47	09/30/22 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				09/30/22 08:47	09/30/22 18:27	1
o-Terphenyl	105		70 - 130				09/30/22 08:47	09/30/22 18:27	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Client Sample ID: BH4

Lab Sample ID: 880-19825-4

Date Collected: 09/29/22 09:15

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		25.2		mg/Kg			10/03/22 10:51	5

Client Sample ID: BH5

Lab Sample ID: 880-19825-5

Date Collected: 09/29/22 09:25

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

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		09/30/22 14:23	10/05/22 03:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/05/22 03:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/05/22 03:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:23	10/05/22 03:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/05/22 03:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:23	10/05/22 03:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				09/30/22 14:23	10/05/22 03:08	1
1,4-Difluorobenzene (Surr)	105		70 - 130				09/30/22 14:23	10/05/22 03:08	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			10/05/22 10:47	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			10/03/22 11:24	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		09/30/22 11:17	10/01/22 17:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 17:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				09/30/22 11:17	10/01/22 17:58	1
o-Terphenyl	81		70 - 130				09/30/22 11:17	10/01/22 17:58	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1660		25.2		mg/Kg			10/03/22 10:55	5

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Client Sample ID: BH6

Lab Sample ID: 880-19825-6

Date Collected: 09/29/22 09:35

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/05/22 03:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/05/22 03:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/05/22 03:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/05/22 03:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/05/22 03:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/05/22 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/30/22 14:23	10/05/22 03:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130	09/30/22 14:23	10/05/22 03:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/05/22 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 18:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 18:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	09/30/22 11:17	10/01/22 18:19	1
o-Terphenyl	84		70 - 130	09/30/22 11:17	10/01/22 18:19	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3080		25.0		mg/Kg			10/03/22 11:00	5

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Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-19823-A-1-E MS	Matrix Spike	115	108
880-19823-A-1-F MSD	Matrix Spike Duplicate	112	104
880-19825-1	BH1	115	103
880-19825-2	BH2	111	102
880-19825-3	BH3	114	101
880-19825-4	BH4	117	102
880-19825-5	BH5	114	105
880-19825-6	BH6	118	107
LCS 880-35822/1-A	Lab Control Sample	108	102
LCSD 880-35822/2-A	Lab Control Sample Dup	108	102
MB 880-35822/5-A	Method Blank	103	112
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19825-1	BH1	102	102
880-19825-2	BH2	98	92
880-19825-3	BH3	108	105
880-19825-4	BH4	107	105
880-19825-5	BH5	90	81
880-19825-6	BH6	92	84
880-19834-A-1-B MS	Matrix Spike	124	80
880-19834-A-1-C MSD	Matrix Spike Duplicate	134 S1+	88
890-3075-A-1-C MS	Matrix Spike	69 S1-	62 S1-
890-3075-A-1-D MSD	Matrix Spike Duplicate	68 S1-	62 S1-
LCS 880-35754/2-A	Lab Control Sample	101	98
LCS 880-35805/2-A	Lab Control Sample	95	91
LCSD 880-35754/3-A	Lab Control Sample Dup	107	101
LCSD 880-35805/3-A	Lab Control Sample Dup	109	103
MB 880-35754/1-A	Method Blank	115	108
MB 880-35805/1-A	Method Blank	109	99
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35822/5-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/22 14:23	10/04/22 19:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/30/22 14:23	10/04/22 19:43	1
1,4-Difluorobenzene (Surr)	112		70 - 130	09/30/22 14:23	10/04/22 19:43	1

Lab Sample ID: LCS 880-35822/1-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09822		mg/Kg		98	70 - 130
Toluene	0.100	0.1046		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2088		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-35822/2-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08416		mg/Kg		84	70 - 130	15	35
Toluene	0.100	0.08894		mg/Kg		89	70 - 130	16	35
Ethylbenzene	0.100	0.08921		mg/Kg		89	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1794		mg/Kg		90	70 - 130	15	35
o-Xylene	0.100	0.08941		mg/Kg		89	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-19823-A-1-E MS

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09243		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.0998	0.09415		mg/Kg		94	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-19823-A-1-E MS
Matrix: Solid
Analysis Batch: 36069

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09096		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1819		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08940		mg/Kg		90	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	115		70 - 130						
1,4-Difluorobenzene (Surr)	108		70 - 130						

Lab Sample ID: 880-19823-A-1-F MSD
Matrix: Solid
Analysis Batch: 36069

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08515		mg/Kg		86	70 - 130	8	35
Toluene	<0.00200	U	0.0990	0.08949		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0990	0.08762		mg/Kg		88	70 - 130	4	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1764		mg/Kg		89	70 - 130	3	35
o-Xylene	<0.00200	U	0.0990	0.08698		mg/Kg		88	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-35754/1-A
Matrix: Solid
Analysis Batch: 35736

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 09:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	108		70 - 130						

Lab Sample ID: LCS 880-35754/2-A
Matrix: Solid
Analysis Batch: 35736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	753.2		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	1000	962.9		mg/Kg		96	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-35754/2-A

Matrix: Solid

Analysis Batch: 35736

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35754

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-35754/3-A

Matrix: Solid

Analysis Batch: 35736

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35754

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	781.3		mg/Kg		78	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	998.5		mg/Kg		100	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 880-19834-A-1-B MS

Matrix: Solid

Analysis Batch: 35736

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1040		998	1890		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1690		998	2765		mg/Kg		108	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 880-19834-A-1-C MSD

Matrix: Solid

Analysis Batch: 35736

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35754

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1040		999	1986		mg/Kg		94	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1690		999	2948		mg/Kg		126	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	88		70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-35805/1-A

Matrix: Solid

Analysis Batch: 35863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 11:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 11:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 11:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				09/30/22 11:17	10/01/22 11:52	1
o-Terphenyl	99		70 - 130				09/30/22 11:17	10/01/22 11:52	1

Lab Sample ID: LCS 880-35805/2-A

Matrix: Solid

Analysis Batch: 35863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	812.7		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	888.2		mg/Kg		89	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	95		70 - 130				
o-Terphenyl	91		70 - 130				

Lab Sample ID: LCSD 880-35805/3-A

Matrix: Solid

Analysis Batch: 35863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35805

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	956.4		mg/Kg		96	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	991.8		mg/Kg		99	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 890-3075-A-1-C MS

Matrix: Solid

Analysis Batch: 35863

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	603.9	F1	mg/Kg		61	70 - 130
Diesel Range Organics (Over C10-C28)	188	F1	998	466.6	F1	mg/Kg		28	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-3075-A-1-C MS
Matrix: Solid
Analysis Batch: 35863

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35805

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	62	S1-	70 - 130

Lab Sample ID: 890-3075-A-1-D MSD
Matrix: Solid
Analysis Batch: 35863

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	573.3	F1	mg/Kg		57	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	188	F1	999	464.2	F1	mg/Kg		28	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	62	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35802/1-A
Matrix: Solid
Analysis Batch: 35924

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 08:45	1

Lab Sample ID: LCS 880-35802/2-A
Matrix: Solid
Analysis Batch: 35924

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.9		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-35802/3-A
Matrix: Solid
Analysis Batch: 35924

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	267.5		mg/Kg		107	90 - 110	10	20

Lab Sample ID: 880-19823-A-1-C MS
Matrix: Solid
Analysis Batch: 35924

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	1750	F1	1240	2742	F1	mg/Kg		80	90 - 110

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-19823-A-1-D MSD				Client Sample ID: Matrix Spike Duplicate								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 35924												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	1750	F1	1240	2859		mg/Kg		90	90 - 110	4	20	

Lab Sample ID: 880-19824-A-5-C MS				Client Sample ID: Matrix Spike								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 35924												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	438		252	678.0		mg/Kg		96	90 - 110			

Lab Sample ID: 880-19824-A-5-D MSD				Client Sample ID: Matrix Spike Duplicate								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 35924												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	438		252	677.7		mg/Kg		95	90 - 110	0	20	

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 35822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-1	BH1	Total/NA	Solid	5035	
880-19825-2	BH2	Total/NA	Solid	5035	
880-19825-3	BH3	Total/NA	Solid	5035	
880-19825-4	BH4	Total/NA	Solid	5035	
880-19825-5	BH5	Total/NA	Solid	5035	
880-19825-6	BH6	Total/NA	Solid	5035	
MB 880-35822/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35822/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35822/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19823-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19823-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 36069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-1	BH1	Total/NA	Solid	8021B	35822
880-19825-2	BH2	Total/NA	Solid	8021B	35822
880-19825-3	BH3	Total/NA	Solid	8021B	35822
880-19825-4	BH4	Total/NA	Solid	8021B	35822
880-19825-5	BH5	Total/NA	Solid	8021B	35822
880-19825-6	BH6	Total/NA	Solid	8021B	35822
MB 880-35822/5-A	Method Blank	Total/NA	Solid	8021B	35822
LCS 880-35822/1-A	Lab Control Sample	Total/NA	Solid	8021B	35822
LCSD 880-35822/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35822
880-19823-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35822
880-19823-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35822

Analysis Batch: 36162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-1	BH1	Total/NA	Solid	Total BTEX	
880-19825-2	BH2	Total/NA	Solid	Total BTEX	
880-19825-3	BH3	Total/NA	Solid	Total BTEX	
880-19825-4	BH4	Total/NA	Solid	Total BTEX	
880-19825-5	BH5	Total/NA	Solid	Total BTEX	
880-19825-6	BH6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-1	BH1	Total/NA	Solid	8015B NM	35754
880-19825-2	BH2	Total/NA	Solid	8015B NM	35754
880-19825-3	BH3	Total/NA	Solid	8015B NM	35754
880-19825-4	BH4	Total/NA	Solid	8015B NM	35754
MB 880-35754/1-A	Method Blank	Total/NA	Solid	8015B NM	35754
LCS 880-35754/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35754
LCSD 880-35754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35754
880-19834-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	35754
880-19834-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35754

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 35754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-1	BH1	Total/NA	Solid	8015NM Prep	
880-19825-2	BH2	Total/NA	Solid	8015NM Prep	
880-19825-3	BH3	Total/NA	Solid	8015NM Prep	
880-19825-4	BH4	Total/NA	Solid	8015NM Prep	
MB 880-35754/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35754/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19834-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19834-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 35805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-5	BH5	Total/NA	Solid	8015NM Prep	
880-19825-6	BH6	Total/NA	Solid	8015NM Prep	
MB 880-35805/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35805/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3075-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3075-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-5	BH5	Total/NA	Solid	8015B NM	35805
880-19825-6	BH6	Total/NA	Solid	8015B NM	35805
MB 880-35805/1-A	Method Blank	Total/NA	Solid	8015B NM	35805
LCS 880-35805/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35805
LCSD 880-35805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35805
890-3075-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35805
890-3075-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35805

Analysis Batch: 35958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-1	BH1	Total/NA	Solid	8015 NM	
880-19825-2	BH2	Total/NA	Solid	8015 NM	
880-19825-3	BH3	Total/NA	Solid	8015 NM	
880-19825-4	BH4	Total/NA	Solid	8015 NM	
880-19825-5	BH5	Total/NA	Solid	8015 NM	
880-19825-6	BH6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-1	BH1	Soluble	Solid	DI Leach	
880-19825-2	BH2	Soluble	Solid	DI Leach	
880-19825-3	BH3	Soluble	Solid	DI Leach	
880-19825-4	BH4	Soluble	Solid	DI Leach	
880-19825-5	BH5	Soluble	Solid	DI Leach	
880-19825-6	BH6	Soluble	Solid	DI Leach	
MB 880-35802/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35802/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 35802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-35802/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19823-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19823-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-19824-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19824-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 35924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19825-1	BH1	Soluble	Solid	300.0	35802
880-19825-2	BH2	Soluble	Solid	300.0	35802
880-19825-3	BH3	Soluble	Solid	300.0	35802
880-19825-4	BH4	Soluble	Solid	300.0	35802
880-19825-5	BH5	Soluble	Solid	300.0	35802
880-19825-6	BH6	Soluble	Solid	300.0	35802
MB 880-35802/1-A	Method Blank	Soluble	Solid	300.0	35802
LCS 880-35802/2-A	Lab Control Sample	Soluble	Solid	300.0	35802
LCSD 880-35802/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35802
880-19823-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	35802
880-19823-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35802
880-19824-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	35802
880-19824-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35802

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Client Sample ID: BH1
Date Collected: 09/29/22 08:45
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19825-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/05/22 01:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36162	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35958	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 17:22	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 10:26	CH	EET MID

Client Sample ID: BH2
Date Collected: 09/29/22 08:55
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19825-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/05/22 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36162	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35958	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 17:44	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 10:41	CH	EET MID

Client Sample ID: BH3
Date Collected: 09/29/22 09:05
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19825-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/05/22 02:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36162	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35958	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 18:05	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 10:46	CH	EET MID

Client Sample ID: BH4
Date Collected: 09/29/22 09:15
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19825-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/05/22 02:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36162	10/05/22 10:47	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Client Sample ID: BH4
Date Collected: 09/29/22 09:15
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19825-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35958	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 18:27	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 10:51	CH	EET MID

Client Sample ID: BH5
Date Collected: 09/29/22 09:25
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19825-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/05/22 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36162	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35958	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 17:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 10:55	CH	EET MID

Client Sample ID: BH6
Date Collected: 09/29/22 09:35
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19825-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/05/22 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36162	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35958	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 18:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 11:00	CH	EET MID

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

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19825-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19825-1	BH1	Solid	09/29/22 08:45	09/29/22 15:53	0-6"
880-19825-2	BH2	Solid	09/29/22 08:55	09/29/22 15:53	0-6"
880-19825-3	BH3	Solid	09/29/22 09:05	09/29/22 15:53	0-6"
880-19825-4	BH4	Solid	09/29/22 09:15	09/29/22 15:53	0-6"
880-19825-5	BH5	Solid	09/29/22 09:25	09/29/22 15:53	0-6"
880-19825-6	BH6	Solid	09/29/22 09:35	09/29/22 15:53	0-6"

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



Laboratory Testing
Eurofins Xenco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 19825

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Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City, State ZIP	Midland TX 79707	City, State ZIP	
Phone	432-687-1777	Email	granth@forl.com / addisong@forl.com

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

Project Name	DENTON #5 SWD		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes					
Project Number			☐ Routine ☒ Rush																			None NO DI Water H ₂ O					
Project Location	LEA Co. NM		Due Date		3 Day																	Cool Cool MeOH Me					
Sampler's Name	Addison Guelker		TAT starts the day received by the lab if received by 4:30pm																			HCL HC HNO ₃ HN					
PO #																						H ₂ SO ₄ H ₂ NaOH Na					
SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice	Yes	No																	H ₃ PO ₄ HP				
Samples Received Intact	Yes	No	Thermometer ID	2008																		NaHSO ₄ NABIS					
Cooler Custody Seals	Yes	No	Correction Factor	-20																		Na ₂ S ₂ O ₃ NaSO ₃					
Sample Custody Seals	Yes	No	Temperature Reading	4-2																		Zn Acetate+NaOH Zn					
Total Containers			Corrected Temperature	4.0																		NaOH+Ascorbic Acid SAPC					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	EC	TPH 8015M	BTEX 8021B																	Sample Comments	
BH1	S	9/24/22	8:45	0-6"	G	1	X	X	X																		
BH2	S		8:55	0-6"	G	1	X	X	X																		
BH3	S		9:05	0-6"	G	1	X	X	X																		
BH4	S		9:15	0-6"	G	1	X	X	X																		
BH5	S		9:25	0-6"	G	1	X	X	X																		
BH6	S		9:35	0-6"	G	1	X	X	X																		
	S																										
	S																										
	S																										
	S																										



880-19825 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Pb	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn				
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010		8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	Hg	1631 / 245	1 / 7470 / 7471														

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		9/29/22			2
		1552			4
					6

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-19825-1

SDG Number: Lea Co, NM

Login Number: 19825

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19826-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Denton #5 SWD

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

Authorized for release by:

10/4/2022 3:18:55 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Laboratory Job ID: 880-19826-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

Case Narrative

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Job ID: 880-19826-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-19826-1****Receipt**

The samples were received on 9/29/2022 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: BH1 (880-19826-1), BH2 (880-19826-2), BH3 (880-19826-3), BH4 (880-19826-4), BH5 (880-19826-5) and BH6 (880-19826-6).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3075-A-1-B), (890-3075-A-1-C MS) and (890-3075-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35805 and analytical batch 880-35863 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35802 and analytical batch 880-35924 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35803 and analytical batch 880-35998 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19826-1

Date Collected: 09/29/22 08:46

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:51	10/04/22 12:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:51	10/04/22 12:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:51	10/04/22 12:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/22 14:51	10/04/22 12:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:51	10/04/22 12:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/22 14:51	10/04/22 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/30/22 14:51	10/04/22 12:13	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/30/22 14:51	10/04/22 12:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/04/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/22 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 19:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 19:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	09/30/22 11:17	10/01/22 19:03	1
o-Terphenyl	99		70 - 130	09/30/22 11:17	10/01/22 19:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		24.8		mg/Kg			10/03/22 11:05	5

Client Sample ID: BH2

Lab Sample ID: 880-19826-2

Date Collected: 09/29/22 08:56

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 12:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 12:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 12:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 12:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 12:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	09/30/22 14:51	10/04/22 12:34	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Client Sample ID: BH2

Lab Sample ID: 880-19826-2

Date Collected: 09/29/22 08:56

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	09/30/22 14:51	10/04/22 12:34	1

Method: 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			10/04/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 19:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 19:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/30/22 11:17	10/01/22 19:24	1
o-Terphenyl	98		70 - 130				09/30/22 11:17	10/01/22 19:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	454		4.98		mg/Kg			10/03/22 11:10	1

Client Sample ID: BH3

Lab Sample ID: 880-19826-3

Date Collected: 09/29/22 09:06

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 12:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 12:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 12:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 12:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 12:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/30/22 14:51	10/04/22 12:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/30/22 14:51	10/04/22 12:55	1

Method: 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			10/04/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/22 11:31	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Client Sample ID: BH3

Lab Sample ID: 880-19826-3

Date Collected: 09/29/22 09:06

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 19:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 19:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				09/30/22 11:17	10/01/22 19:45	1
o-Terphenyl	92		70 - 130				09/30/22 11:17	10/01/22 19:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1640	F1	25.2		mg/Kg			10/03/22 16:14	5

Client Sample ID: BH4

Lab Sample ID: 880-19826-4

Date Collected: 09/29/22 09:16

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 13:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 13:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 13:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 13:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 13:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				09/30/22 14:51	10/04/22 13:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/30/22 14:51	10/04/22 13:16	1

Method: 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			10/04/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.7		50.0		mg/Kg			10/03/22 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 20:07	1
Diesel Range Organics (Over C10-C28)	52.7		50.0		mg/Kg		09/30/22 11:17	10/01/22 20:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				09/30/22 11:17	10/01/22 20:07	1
o-Terphenyl	86		70 - 130				09/30/22 11:17	10/01/22 20:07	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Client Sample ID: BH4

Lab Sample ID: 880-19826-4

Date Collected: 09/29/22 09:16

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 1'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354		5.04		mg/Kg			10/03/22 16:29	1

Client Sample ID: BH5

Lab Sample ID: 880-19826-5

Date Collected: 09/29/22 09:26

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/30/22 14:51	10/04/22 13:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/30/22 14:51	10/04/22 13:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/30/22 14:51	10/04/22 13:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/30/22 14:51	10/04/22 13:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/30/22 14:51	10/04/22 13:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/30/22 14:51	10/04/22 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				09/30/22 14:51	10/04/22 13:36	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/30/22 14:51	10/04/22 13:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/04/22 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/22 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 20:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 20:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				09/30/22 11:17	10/01/22 20:28	1
o-Terphenyl	88		70 - 130				09/30/22 11:17	10/01/22 20:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		5.02		mg/Kg			10/03/22 16:33	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Client Sample ID: BH6
Date Collected: 09/29/22 09:36
Date Received: 09/29/22 15:53
Sample Depth: 1'

Lab Sample ID: 880-19826-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/30/22 14:51	10/04/22 13:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/30/22 14:51	10/04/22 13:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/30/22 14:51	10/04/22 13:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/30/22 14:51	10/04/22 13:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/30/22 14:51	10/04/22 13:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/30/22 14:51	10/04/22 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				09/30/22 14:51	10/04/22 13:57	1
1,4-Difluorobenzene (Surr)	108		70 - 130				09/30/22 14:51	10/04/22 13:57	1

Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/04/22 13:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	109		49.9		mg/Kg			10/03/22 11:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 20:50	1
Diesel Range Organics (Over C10-C28)	109		49.9		mg/Kg		09/30/22 11:17	10/01/22 20:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 11:17	10/01/22 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/30/22 11:17	10/01/22 20:50	1
o-Terphenyl	97		70 - 130				09/30/22 11:17	10/01/22 20:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		4.98		mg/Kg			10/03/22 16:38	1

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-19826-1	BH1	110	93
880-19826-1 MS	BH1	99	102
880-19826-1 MSD	BH1	96	98
880-19826-2	BH2	111	99
880-19826-3	BH3	115	103
880-19826-4	BH4	116	100
880-19826-5	BH5	123	102
880-19826-6	BH6	121	108
LCS 880-35824/1-A	Lab Control Sample	83	93
LCSD 880-35824/2-A	Lab Control Sample Dup	87	98
MB 880-35824/5-A	Method Blank	94	82
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19826-1	BH1	110	99
880-19826-2	BH2	106	98
880-19826-3	BH3	100	92
880-19826-4	BH4	94	86
880-19826-5	BH5	96	88
880-19826-6	BH6	105	97
890-3075-A-1-C MS	Matrix Spike	69 S1-	62 S1-
890-3075-A-1-D MSD	Matrix Spike Duplicate	68 S1-	62 S1-
LCS 880-35805/2-A	Lab Control Sample	95	91
LCSD 880-35805/3-A	Lab Control Sample Dup	109	103
MB 880-35805/1-A	Method Blank	109	99
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35824/5-A

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/22 14:51	10/04/22 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/30/22 14:51	10/04/22 11:52	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/30/22 14:51	10/04/22 11:52	1

Lab Sample ID: LCS 880-35824/1-A

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1004		mg/Kg		100	70 - 130
Toluene	0.100	0.1007		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09668		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2011		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-35824/2-A

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	3	35
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.09909		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2058		mg/Kg		103	70 - 130	2	35
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-19826-1 MS

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09434		mg/Kg		94	70 - 130
Toluene	<0.00201	U	0.100	0.09769		mg/Kg		97	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-19826-1 MS

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09359		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1989		mg/Kg		99	70 - 130
o-Xylene	<0.00201	U	0.100	0.1003		mg/Kg		100	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	99		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-19826-1 MSD

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09755		mg/Kg		98	70 - 130	3	35
Toluene	<0.00201	U	0.0998	0.09855		mg/Kg		98	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0998	0.09317		mg/Kg		93	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1943		mg/Kg		97	70 - 130	2	35
o-Xylene	<0.00201	U	0.0998	0.09791		mg/Kg		98	70 - 130	2	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

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

Lab Sample ID: MB 880-35805/1-A

Matrix: Solid

Analysis Batch: 35863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 11:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 11:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 11:17	10/01/22 11:52	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				09/30/22 11:17	10/01/22 11:52	1
o-Terphenyl	99		70 - 130				09/30/22 11:17	10/01/22 11:52	1

Lab Sample ID: LCS 880-35805/2-A

Matrix: Solid

Analysis Batch: 35863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	812.7		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	888.2		mg/Kg		89	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-35805/2-A
Matrix: Solid
Analysis Batch: 35863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35805

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-35805/3-A
Matrix: Solid
Analysis Batch: 35863

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35805

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	956.4		mg/Kg		96	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	991.8		mg/Kg		99	70 - 130	11	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-3075-A-1-C MS
Matrix: Solid
Analysis Batch: 35863

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	603.9	F1	mg/Kg		61	70 - 130
Diesel Range Organics (Over C10-C28)	188	F1	998	466.6	F1	mg/Kg		28	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	62	S1-	70 - 130

Lab Sample ID: 890-3075-A-1-D MSD
Matrix: Solid
Analysis Batch: 35863

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	999	573.3	F1	mg/Kg		57	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	188	F1	999	464.2	F1	mg/Kg		28	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	62	S1-	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35802/1-A

Matrix: Solid

Analysis Batch: 35924

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 08:45	1

Lab Sample ID: LCS 880-35802/2-A

Matrix: Solid

Analysis Batch: 35924

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.9		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-35802/3-A

Matrix: Solid

Analysis Batch: 35924

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	267.5		mg/Kg		107	90 - 110	10	20

Lab Sample ID: 880-19823-A-1-C MS

Matrix: Solid

Analysis Batch: 35924

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	1750	F1	1240	2742	F1	mg/Kg		80	90 - 110

Lab Sample ID: 880-19823-A-1-D MSD

Matrix: Solid

Analysis Batch: 35924

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	1750	F1	1240	2859		mg/Kg		90	90 - 110	4	20

Lab Sample ID: 880-19824-A-5-C MS

Matrix: Solid

Analysis Batch: 35924

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	438		252	678.0		mg/Kg		96	90 - 110

Lab Sample ID: 880-19824-A-5-D MSD

Matrix: Solid

Analysis Batch: 35924

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	438		252	677.7		mg/Kg		95	90 - 110	0	20

Lab Sample ID: MB 880-35803/1-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 15:59	1

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-35803/2-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 35998											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.8		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-35803/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 35998											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.3		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-19826-3 MS						Client Sample ID: BH3					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 35998											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1640	F1	1260	2744	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 880-19826-3 MSD						Client Sample ID: BH3					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 35998											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1640	F1	1260	2751	F1	mg/Kg		89	90 - 110	0	20

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 35824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-1	BH1	Total/NA	Solid	5035	
880-19826-2	BH2	Total/NA	Solid	5035	
880-19826-3	BH3	Total/NA	Solid	5035	
880-19826-4	BH4	Total/NA	Solid	5035	
880-19826-5	BH5	Total/NA	Solid	5035	
880-19826-6	BH6	Total/NA	Solid	5035	
MB 880-35824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19826-1 MS	BH1	Total/NA	Solid	5035	
880-19826-1 MSD	BH1	Total/NA	Solid	5035	

Analysis Batch: 36027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-1	BH1	Total/NA	Solid	8021B	35824
880-19826-2	BH2	Total/NA	Solid	8021B	35824
880-19826-3	BH3	Total/NA	Solid	8021B	35824
880-19826-4	BH4	Total/NA	Solid	8021B	35824
880-19826-5	BH5	Total/NA	Solid	8021B	35824
880-19826-6	BH6	Total/NA	Solid	8021B	35824
MB 880-35824/5-A	Method Blank	Total/NA	Solid	8021B	35824
LCS 880-35824/1-A	Lab Control Sample	Total/NA	Solid	8021B	35824
LCSD 880-35824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35824
880-19826-1 MS	BH1	Total/NA	Solid	8021B	35824
880-19826-1 MSD	BH1	Total/NA	Solid	8021B	35824

Analysis Batch: 36061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-1	BH1	Total/NA	Solid	Total BTEX	
880-19826-2	BH2	Total/NA	Solid	Total BTEX	
880-19826-3	BH3	Total/NA	Solid	Total BTEX	
880-19826-4	BH4	Total/NA	Solid	Total BTEX	
880-19826-5	BH5	Total/NA	Solid	Total BTEX	
880-19826-6	BH6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 35805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-1	BH1	Total/NA	Solid	8015NM Prep	
880-19826-2	BH2	Total/NA	Solid	8015NM Prep	
880-19826-3	BH3	Total/NA	Solid	8015NM Prep	
880-19826-4	BH4	Total/NA	Solid	8015NM Prep	
880-19826-5	BH5	Total/NA	Solid	8015NM Prep	
880-19826-6	BH6	Total/NA	Solid	8015NM Prep	
MB 880-35805/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35805/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3075-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3075-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

GC Semi VOA

Analysis Batch: 35863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-1	BH1	Total/NA	Solid	8015B NM	35805
880-19826-2	BH2	Total/NA	Solid	8015B NM	35805
880-19826-3	BH3	Total/NA	Solid	8015B NM	35805
880-19826-4	BH4	Total/NA	Solid	8015B NM	35805
880-19826-5	BH5	Total/NA	Solid	8015B NM	35805
880-19826-6	BH6	Total/NA	Solid	8015B NM	35805
MB 880-35805/1-A	Method Blank	Total/NA	Solid	8015B NM	35805
LCS 880-35805/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35805
LCSD 880-35805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35805
890-3075-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35805
890-3075-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35805

Analysis Batch: 35973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-1	BH1	Total/NA	Solid	8015 NM	
880-19826-2	BH2	Total/NA	Solid	8015 NM	
880-19826-3	BH3	Total/NA	Solid	8015 NM	
880-19826-4	BH4	Total/NA	Solid	8015 NM	
880-19826-5	BH5	Total/NA	Solid	8015 NM	
880-19826-6	BH6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-1	BH1	Soluble	Solid	DI Leach	
880-19826-2	BH2	Soluble	Solid	DI Leach	
MB 880-35802/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35802/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35802/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19823-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19823-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-19824-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19824-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 35803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-3	BH3	Soluble	Solid	DI Leach	
880-19826-4	BH4	Soluble	Solid	DI Leach	
880-19826-5	BH5	Soluble	Solid	DI Leach	
880-19826-6	BH6	Soluble	Solid	DI Leach	
MB 880-35803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19826-3 MS	BH3	Soluble	Solid	DI Leach	
880-19826-3 MSD	BH3	Soluble	Solid	DI Leach	

Analysis Batch: 35924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-1	BH1	Soluble	Solid	300.0	35802
880-19826-2	BH2	Soluble	Solid	300.0	35802

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 35924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35802/1-A	Method Blank	Soluble	Solid	300.0	35802
LCS 880-35802/2-A	Lab Control Sample	Soluble	Solid	300.0	35802
LCSD 880-35802/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35802
880-19823-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	35802
880-19823-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35802
880-19824-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	35802
880-19824-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35802

Analysis Batch: 35998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-3	BH3	Soluble	Solid	300.0	35803
880-19826-4	BH4	Soluble	Solid	300.0	35803
880-19826-5	BH5	Soluble	Solid	300.0	35803
880-19826-6	BH6	Soluble	Solid	300.0	35803
MB 880-35803/1-A	Method Blank	Soluble	Solid	300.0	35803
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	300.0	35803
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35803
880-19826-3 MS	BH3	Soluble	Solid	300.0	35803
880-19826-3 MSD	BH3	Soluble	Solid	300.0	35803

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19826-1

Date Collected: 09/29/22 08:46

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 12:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36061	10/04/22 13:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			35973	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 19:03	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 11:05	CH	EET MID

Client Sample ID: BH2

Lab Sample ID: 880-19826-2

Date Collected: 09/29/22 08:56

Matrix: Solid

Date Received: 09/29/22 15:53

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	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36061	10/04/22 13:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			35973	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 19:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 11:10	CH	EET MID

Client Sample ID: BH3

Lab Sample ID: 880-19826-3

Date Collected: 09/29/22 09:06

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36061	10/04/22 13:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			35973	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 19:45	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		5			35998	10/03/22 16:14	CH	EET MID

Client Sample ID: BH4

Lab Sample ID: 880-19826-4

Date Collected: 09/29/22 09:16

Matrix: Solid

Date Received: 09/29/22 15:53

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	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 13:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36061	10/04/22 13:45	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Client Sample ID: BH4
Date Collected: 09/29/22 09:16
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19826-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35973	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 20:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 16:29	CH	EET MID

Client Sample ID: BH5
Date Collected: 09/29/22 09:26
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19826-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36061	10/04/22 13:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			35973	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 20:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 16:33	CH	EET MID

Client Sample ID: BH6
Date Collected: 09/29/22 09:36
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19826-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 13:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36061	10/04/22 13:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			35973	10/03/22 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35805	09/30/22 11:17	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35863	10/01/22 20:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 16:38	CH	EET MID

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

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

- 1
- 2
- 3
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- 12
- 13
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Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19826-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19826-1	BH1	Solid	09/29/22 08:46	09/29/22 15:53	1'
880-19826-2	BH2	Solid	09/29/22 08:56	09/29/22 15:53	1'
880-19826-3	BH3	Solid	09/29/22 09:06	09/29/22 15:53	1'
880-19826-4	BH4	Solid	09/29/22 09:16	09/29/22 15:53	1'
880-19826-5	BH5	Solid	09/29/22 09:26	09/29/22 15:53	1'
880-19826-6	BH6	Solid	09/29/22 09:36	09/29/22 15:53	1'

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Environment Testing
Xenco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 19826

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Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City State ZIP	Midland TX 79707	City, State ZIP	
Phone	432-687-1777	Email	grant@forl.com / addisong@forl.com

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

Project Name	DENTON #5 SWD	Turn Around	☐ Routine ☒ Rush	Pass. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number		Due Date	3 DAY					None NO DI Water H ₂ O	
Project Location	LEA Co. NM	TAT starts the day received by the lab if received by 4:30pm							Cool Cool MeOH Me
Sampler's Name	Addison Guetker								HCL HC HNO ₃ HN
PO #									H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT	Temp Blank Yes ☒ No ☐	Thermometer ID	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐			H ₃ PO ₄ HP	
Samples Received Intact	Yes ☒ No ☐	Correction Factor						NaHSO ₄ NABIS	
Cooler Custody Seals	Yes ☒ No ☐	Temperature Reading	4.7					Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes ☒ No ☐	Corrected Temperature	4.4					Zn Acetate+NaOH Zn	
Total Containers								NaOH+Ascorbic Acid SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH 8015M	BTEX 8021B	Sample Comments
BH1	S	9/21/22	8:46	1'	G	1	X	X	
BH2	S		8:56	1'	G	1			
BH3	S		9:06	1'	G	1			
BH4	S		9:16	1'	G	1			
BH5	S		9:26	1'	G	1			
BH6	S		9:36	1'	G	1			
	S								
	S								
	S								
	S								
	S								
	S								



860-19826 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		9/29/22			
		1553			

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-19826-1

SDG Number: Lea Co, NM

Login Number: 19826

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19824-1

Laboratory Sample Delivery Group: Lea Co, NM

Client Project/Site: Denton #5 SWD

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

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

Authorized for release by:

10/5/2022 10:23:12 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Laboratory Job ID: 880-19824-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Job ID: 880-19824-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-19824-1

Receipt

The samples were received on 9/29/2022 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: BH1 (880-19824-1), BH2 (880-19824-2), BH3 (880-19824-3), BH4 (880-19824-4), BH5 (880-19824-5) and BH6 (880-19824-6).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-19834-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19824-1

Date Collected: 09/29/22 08:47

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

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		09/30/22 14:23	10/04/22 22:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/04/22 22:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/04/22 22:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:23	10/04/22 22:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/04/22 22:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:23	10/04/22 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/30/22 14:23	10/04/22 22:15	1
1,4-Difluorobenzene (Surr)	106		70 - 130	09/30/22 14:23	10/04/22 22:15	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			10/05/22 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 15:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 15:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/30/22 08:47	09/30/22 15:14	1
o-Terphenyl	98		70 - 130	09/30/22 08:47	09/30/22 15:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		25.1		mg/Kg			10/03/22 09:48	5

Client Sample ID: BH2

Lab Sample ID: 880-19824-2

Date Collected: 09/29/22 08:57

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 22:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 22:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 22:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/22 14:23	10/04/22 22:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 22:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/22 14:23	10/04/22 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/30/22 14:23	10/04/22 22:35	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Client Sample ID: BH2

Lab Sample ID: 880-19824-2

Date Collected: 09/29/22 08:57

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	09/30/22 14:23	10/04/22 22:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/05/22 10:47	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			10/03/22 11:24	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		09/30/22 08:47	09/30/22 15:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 15:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/30/22 08:47	09/30/22 15:36	1
o-Terphenyl	102		70 - 130				09/30/22 08:47	09/30/22 15:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	464		4.98		mg/Kg			10/03/22 09:53	1

Client Sample ID: BH3

Lab Sample ID: 880-19824-3

Date Collected: 09/29/22 09:07

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 22:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 22:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 22:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/22 14:23	10/04/22 22:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 22:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/22 14:23	10/04/22 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	09/30/22 14:23	10/04/22 22:55	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/30/22 14:23	10/04/22 22:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/05/22 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	226		49.9		mg/Kg			10/03/22 11:24	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Client Sample ID: BH3

Lab Sample ID: 880-19824-3

Date Collected: 09/29/22 09:07

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

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		09/30/22 08:47	09/30/22 15:57	1
Diesel Range Organics (Over C10-C28)	226		49.9		mg/Kg		09/30/22 08:47	09/30/22 15:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/30/22 08:47	09/30/22 15:57	1
o-Terphenyl	100		70 - 130				09/30/22 08:47	09/30/22 15:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		24.8		mg/Kg			10/03/22 09:57	5

Client Sample ID: BH4

Lab Sample ID: 880-19824-4

Date Collected: 09/29/22 09:17

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 23:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 23:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 23:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/04/22 23:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 23:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/04/22 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				09/30/22 14:23	10/04/22 23:16	1
1,4-Difluorobenzene (Surr)	106		70 - 130				09/30/22 14:23	10/04/22 23:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/05/22 10:47	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			10/03/22 11:24	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		09/30/22 08:47	09/30/22 16:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 16:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				09/30/22 08:47	09/30/22 16:18	1
o-Terphenyl	115		70 - 130				09/30/22 08:47	09/30/22 16:18	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Client Sample ID: BH4

Lab Sample ID: 880-19824-4

Date Collected: 09/29/22 09:17

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304		4.97		mg/Kg			10/03/22 10:02	1

Client Sample ID: BH5

Lab Sample ID: 880-19824-5

Date Collected: 09/29/22 09:27

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/05/22 01:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/05/22 01:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/05/22 01:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/22 14:23	10/05/22 01:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/05/22 01:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/22 14:23	10/05/22 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/30/22 14:23	10/05/22 01:05	1
1,4-Difluorobenzene (Surr)	106		70 - 130				09/30/22 14:23	10/05/22 01:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/05/22 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				09/30/22 08:47	09/30/22 16:40	1
o-Terphenyl	103		70 - 130				09/30/22 08:47	09/30/22 16:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	438		5.03		mg/Kg			10/03/22 10:07	1

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Client Sample ID: BH6

Lab Sample ID: 880-19824-6

Date Collected: 09/29/22 09:37

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 2'

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		09/30/22 14:23	10/05/22 01:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/05/22 01:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/05/22 01:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:23	10/05/22 01:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/05/22 01:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:23	10/05/22 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/30/22 14:23	10/05/22 01:26	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/30/22 14:23	10/05/22 01:26	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			10/05/22 10:47	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			10/03/22 11:24	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		09/30/22 08:47	09/30/22 17:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 17:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:47	09/30/22 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	09/30/22 08:47	09/30/22 17:01	1
o-Terphenyl	99		70 - 130	09/30/22 08:47	09/30/22 17:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	435		4.97		mg/Kg			10/03/22 10:22	1

Eurofins Midland

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-19823-A-1-E MS	Matrix Spike	115	108
880-19823-A-1-F MSD	Matrix Spike Duplicate	112	104
880-19824-1	BH1	117	106
880-19824-2	BH2	116	104
880-19824-3	BH3	110	101
880-19824-4	BH4	116	106
880-19824-5	BH5	117	106
880-19824-6	BH6	125	109
LCS 880-35822/1-A	Lab Control Sample	108	102
LCSD 880-35822/2-A	Lab Control Sample Dup	108	102
MB 880-35822/5-A	Method Blank	103	112
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19824-1	BH1	102	98
880-19824-2	BH2	105	102
880-19824-3	BH3	106	100
880-19824-4	BH4	112	115
880-19824-5	BH5	102	103
880-19824-6	BH6	100	99
880-19834-A-1-B MS	Matrix Spike	124	80
880-19834-A-1-C MSD	Matrix Spike Duplicate	134 S1+	88
LCS 880-35754/2-A	Lab Control Sample	101	98
LCSD 880-35754/3-A	Lab Control Sample Dup	107	101
MB 880-35754/1-A	Method Blank	115	108
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35822/5-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/22 14:23	10/04/22 19:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/30/22 14:23	10/04/22 19:43	1
1,4-Difluorobenzene (Surr)	112		70 - 130	09/30/22 14:23	10/04/22 19:43	1

Lab Sample ID: LCS 880-35822/1-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09822		mg/Kg		98	70 - 130
Toluene	0.100	0.1046		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2088		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-35822/2-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08416		mg/Kg		84	70 - 130	15	35
Toluene	0.100	0.08894		mg/Kg		89	70 - 130	16	35
Ethylbenzene	0.100	0.08921		mg/Kg		89	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1794		mg/Kg		90	70 - 130	15	35
o-Xylene	0.100	0.08941		mg/Kg		89	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-19823-A-1-E MS

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09243		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.0998	0.09415		mg/Kg		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-19823-A-1-E MS
Matrix: Solid
Analysis Batch: 36069

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09096		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1819		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08940		mg/Kg		90	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	115		70 - 130						
1,4-Difluorobenzene (Surr)	108		70 - 130						

Lab Sample ID: 880-19823-A-1-F MSD
Matrix: Solid
Analysis Batch: 36069

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08515		mg/Kg		86	70 - 130	8	35
Toluene	<0.00200	U	0.0990	0.08949		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0990	0.08762		mg/Kg		88	70 - 130	4	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1764		mg/Kg		89	70 - 130	3	35
o-Xylene	<0.00200	U	0.0990	0.08698		mg/Kg		88	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-35754/1-A
Matrix: Solid
Analysis Batch: 35736

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:47	09/30/22 09:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	108		70 - 130						

Lab Sample ID: LCS 880-35754/2-A
Matrix: Solid
Analysis Batch: 35736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	753.2		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	1000	962.9		mg/Kg		96	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-35754/2-A
Matrix: Solid
Analysis Batch: 35736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35754

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-35754/3-A
Matrix: Solid
Analysis Batch: 35736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35754

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	781.3		mg/Kg		78	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	998.5		mg/Kg		100	70 - 130	4	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: 880-19834-A-1-B MS
Matrix: Solid
Analysis Batch: 35736

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1040		998	1890		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	1690		998	2765		mg/Kg		108	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	124		70 - 130								
o-Terphenyl	80		70 - 130								

Lab Sample ID: 880-19834-A-1-C MSD
Matrix: Solid
Analysis Batch: 35736

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35754

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1040		999	1986		mg/Kg		94	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1690		999	2948		mg/Kg		126	70 - 130	6	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	134	S1+	70 - 130								
o-Terphenyl	88		70 - 130								

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35802/1-A

Matrix: Solid

Analysis Batch: 35924

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 08:45	1

Lab Sample ID: LCS 880-35802/2-A

Matrix: Solid

Analysis Batch: 35924

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.9		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-35802/3-A

Matrix: Solid

Analysis Batch: 35924

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	267.5		mg/Kg		107	90 - 110	10	20

Lab Sample ID: 880-19824-5 MS

Matrix: Solid

Analysis Batch: 35924

Client Sample ID: BH5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	438		252	678.0		mg/Kg		96	90 - 110

Lab Sample ID: 880-19824-5 MSD

Matrix: Solid

Analysis Batch: 35924

Client Sample ID: BH5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	438		252	677.7		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 35822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19824-1	BH1	Total/NA	Solid	5035	
880-19824-2	BH2	Total/NA	Solid	5035	
880-19824-3	BH3	Total/NA	Solid	5035	
880-19824-4	BH4	Total/NA	Solid	5035	
880-19824-5	BH5	Total/NA	Solid	5035	
880-19824-6	BH6	Total/NA	Solid	5035	
MB 880-35822/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35822/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35822/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19823-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19823-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 36069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19824-1	BH1	Total/NA	Solid	8021B	35822
880-19824-2	BH2	Total/NA	Solid	8021B	35822
880-19824-3	BH3	Total/NA	Solid	8021B	35822
880-19824-4	BH4	Total/NA	Solid	8021B	35822
880-19824-5	BH5	Total/NA	Solid	8021B	35822
880-19824-6	BH6	Total/NA	Solid	8021B	35822
MB 880-35822/5-A	Method Blank	Total/NA	Solid	8021B	35822
LCS 880-35822/1-A	Lab Control Sample	Total/NA	Solid	8021B	35822
LCSD 880-35822/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35822
880-19823-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35822
880-19823-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35822

Analysis Batch: 36161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19824-1	BH1	Total/NA	Solid	Total BTEX	
880-19824-2	BH2	Total/NA	Solid	Total BTEX	
880-19824-3	BH3	Total/NA	Solid	Total BTEX	
880-19824-4	BH4	Total/NA	Solid	Total BTEX	
880-19824-5	BH5	Total/NA	Solid	Total BTEX	
880-19824-6	BH6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19824-1	BH1	Total/NA	Solid	8015B NM	35754
880-19824-2	BH2	Total/NA	Solid	8015B NM	35754
880-19824-3	BH3	Total/NA	Solid	8015B NM	35754
880-19824-4	BH4	Total/NA	Solid	8015B NM	35754
880-19824-5	BH5	Total/NA	Solid	8015B NM	35754
880-19824-6	BH6	Total/NA	Solid	8015B NM	35754
MB 880-35754/1-A	Method Blank	Total/NA	Solid	8015B NM	35754
LCS 880-35754/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35754
LCSD 880-35754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35754
880-19834-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	35754
880-19834-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35754

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 35754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19824-1	BH1	Total/NA	Solid	8015NM Prep	
880-19824-2	BH2	Total/NA	Solid	8015NM Prep	
880-19824-3	BH3	Total/NA	Solid	8015NM Prep	
880-19824-4	BH4	Total/NA	Solid	8015NM Prep	
880-19824-5	BH5	Total/NA	Solid	8015NM Prep	
880-19824-6	BH6	Total/NA	Solid	8015NM Prep	
MB 880-35754/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35754/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19834-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19834-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19824-1	BH1	Total/NA	Solid	8015 NM	
880-19824-2	BH2	Total/NA	Solid	8015 NM	
880-19824-3	BH3	Total/NA	Solid	8015 NM	
880-19824-4	BH4	Total/NA	Solid	8015 NM	
880-19824-5	BH5	Total/NA	Solid	8015 NM	
880-19824-6	BH6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19824-1	BH1	Soluble	Solid	DI Leach	
880-19824-2	BH2	Soluble	Solid	DI Leach	
880-19824-3	BH3	Soluble	Solid	DI Leach	
880-19824-4	BH4	Soluble	Solid	DI Leach	
880-19824-5	BH5	Soluble	Solid	DI Leach	
880-19824-6	BH6	Soluble	Solid	DI Leach	
MB 880-35802/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35802/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35802/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19824-5 MS	BH5	Soluble	Solid	DI Leach	
880-19824-5 MSD	BH5	Soluble	Solid	DI Leach	

Analysis Batch: 35924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19824-1	BH1	Soluble	Solid	300.0	35802
880-19824-2	BH2	Soluble	Solid	300.0	35802
880-19824-3	BH3	Soluble	Solid	300.0	35802
880-19824-4	BH4	Soluble	Solid	300.0	35802
880-19824-5	BH5	Soluble	Solid	300.0	35802
880-19824-6	BH6	Soluble	Solid	300.0	35802
MB 880-35802/1-A	Method Blank	Soluble	Solid	300.0	35802
LCS 880-35802/2-A	Lab Control Sample	Soluble	Solid	300.0	35802
LCSD 880-35802/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35802
880-19824-5 MS	BH5	Soluble	Solid	300.0	35802
880-19824-5 MSD	BH5	Soluble	Solid	300.0	35802

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19824-1

Date Collected: 09/29/22 08:47

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 22:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36161	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35957	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 15:14	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 09:48	CH	EET MID

Client Sample ID: BH2

Lab Sample ID: 880-19824-2

Date Collected: 09/29/22 08:57

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 22:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36161	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35957	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 15:36	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 09:53	CH	EET MID

Client Sample ID: BH3

Lab Sample ID: 880-19824-3

Date Collected: 09/29/22 09:07

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 22:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36161	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35957	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 15:57	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 09:57	CH	EET MID

Client Sample ID: BH4

Lab Sample ID: 880-19824-4

Date Collected: 09/29/22 09:17

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 23:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36161	10/05/22 10:47	SM	EET MID

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Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Client Sample ID: BH4
Date Collected: 09/29/22 09:17
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19824-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35957	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 16:18	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 10:02	CH	EET MID

Client Sample ID: BH5
Date Collected: 09/29/22 09:27
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19824-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/05/22 01:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36161	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35957	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 16:40	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 10:07	CH	EET MID

Client Sample ID: BH6
Date Collected: 09/29/22 09:37
Date Received: 09/29/22 15:53

Lab Sample ID: 880-19824-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/05/22 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36161	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35957	10/03/22 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 17:01	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 10:22	CH	EET MID

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

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

- 1
- 2
- 3
- 4
- 5
- 6
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Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19824-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19824-1	BH1	Solid	09/29/22 08:47	09/29/22 15:53	2'
880-19824-2	BH2	Solid	09/29/22 08:57	09/29/22 15:53	2'
880-19824-3	BH3	Solid	09/29/22 09:07	09/29/22 15:53	2'
880-19824-4	BH4	Solid	09/29/22 09:17	09/29/22 15:53	2'
880-19824-5	BH5	Solid	09/29/22 09:27	09/29/22 15:53	2'
880-19824-6	BH6	Solid	09/29/22 09:37	09/29/22 15:53	2'

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El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

19824

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Project Manager	Grant Huckabee	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City, State ZIP	Midland TX 79707	City, State ZIP	
Phone	432-687-1777	Email	grant@forl.com / addisong@forl.com

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

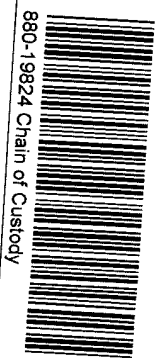
[illegible]

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	J	EC	TPH 801	BTEX 801
BH1	S	9/29/22	8:47	2'	G	1	X		X	X
BH2	S		8:57		G	1			X	
BH3	S		9:07		G	1				
BH4	S		9:17		G	1				
BH5	S		9:27		G	1				
BH6	S		9:37		G	1				
	S									
	S									
	S									
	S									
	S									



880-19824 Chain of Custody

Sample Comments



88U-19824 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:	
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
TCLP / SPLP	6010	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471

Invoice: signature of this document after receipt of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		01/29/22			
		1553			

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-19824-1

SDG Number: Lea Co, NM

Login Number: 19824

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19823-1

Laboratory Sample Delivery Group: Lea Co, NM

Client Project/Site: Denton #5 SWD

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

Authorized for release by:

10/5/2022 10:19:19 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



Have a Question?



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Laboratory Job ID: 880-19823-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, 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: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Job ID: 880-19823-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-19823-1

Receipt

The samples were received on 9/29/2022 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: BH1 (880-19823-1), BH2 (880-19823-2), BH3 (880-19823-3), BH4 (880-19823-4), BH5 (880-19823-5) and BH6 (880-19823-6).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-19829-A-1-B) and (880-19829-A-1-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35802 and analytical batch 880-35924 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19823-1

Date Collected: 09/29/22 08:48

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 20:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 20:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 20:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/22 14:23	10/04/22 20:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 20:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/22 14:23	10/04/22 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				09/30/22 14:23	10/04/22 20:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/30/22 14:23	10/04/22 20:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/05/22 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 15:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 15:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				09/30/22 08:55	09/30/22 15:14	1
o-Terphenyl	94		70 - 130				09/30/22 08:55	09/30/22 15:14	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750	F1	24.8		mg/Kg			10/03/22 08:59	5

Client Sample ID: BH2

Lab Sample ID: 880-19823-2

Date Collected: 09/29/22 08:58

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 20:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 20:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 20:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/04/22 20:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 20:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/04/22 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				09/30/22 14:23	10/04/22 20:32	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Client Sample ID: BH2

Lab Sample ID: 880-19823-2

Date Collected: 09/29/22 08:58

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	09/30/22 14:23	10/04/22 20:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/05/22 10:47	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			10/03/22 11:45	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		09/30/22 08:55	09/30/22 15:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 15:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				09/30/22 08:55	09/30/22 15:36	1
o-Terphenyl	94		70 - 130				09/30/22 08:55	09/30/22 15:36	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	733		25.0		mg/Kg			10/03/22 09:14	5

Client Sample ID: BH3

Lab Sample ID: 880-19823-3

Date Collected: 09/29/22 09:08

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 20:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 20:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 20:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/22 14:23	10/04/22 20:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 20:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/22 14:23	10/04/22 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	09/30/22 14:23	10/04/22 20:53	1
1,4-Difluorobenzene (Surr)	108		70 - 130	09/30/22 14:23	10/04/22 20:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/05/22 10:47	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			10/03/22 11:45	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Client Sample ID: BH3

Lab Sample ID: 880-19823-3

Date Collected: 09/29/22 09:08

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

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		09/30/22 08:55	09/30/22 15:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 15:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				09/30/22 08:55	09/30/22 15:57	1
o-Terphenyl	94		70 - 130				09/30/22 08:55	09/30/22 15:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2580		25.0		mg/Kg			10/03/22 09:19	5

Client Sample ID: BH4

Lab Sample ID: 880-19823-4

Date Collected: 09/29/22 09:18

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

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		09/30/22 14:23	10/04/22 21:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/04/22 21:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/04/22 21:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:23	10/04/22 21:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:23	10/04/22 21:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:23	10/04/22 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/30/22 14:23	10/04/22 21:13	1
1,4-Difluorobenzene (Surr)	106		70 - 130				09/30/22 14:23	10/04/22 21:13	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			10/05/22 10:47	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			10/03/22 11:45	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		09/30/22 08:55	09/30/22 16:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 16:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				09/30/22 08:55	09/30/22 16:18	1
o-Terphenyl	90		70 - 130				09/30/22 08:55	09/30/22 16:18	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Client Sample ID: BH4

Lab Sample ID: 880-19823-4

Date Collected: 09/29/22 09:18

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		4.96		mg/Kg			10/03/22 09:23	1

Client Sample ID: BH5

Lab Sample ID: 880-19823-5

Date Collected: 09/29/22 09:28

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 21:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 21:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 21:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/04/22 21:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:23	10/04/22 21:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/22 14:23	10/04/22 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				09/30/22 14:23	10/04/22 21:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/30/22 14:23	10/04/22 21:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/05/22 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				09/30/22 08:55	09/30/22 16:40	1
o-Terphenyl	103		70 - 130				09/30/22 08:55	09/30/22 16:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	442		5.01		mg/Kg			10/03/22 09:28	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Client Sample ID: BH6

Lab Sample ID: 880-19823-6

Date Collected: 09/29/22 09:38

Matrix: Solid

Date Received: 09/29/22 15:53

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 21:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 21:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 21:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/22 14:23	10/04/22 21:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 21:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/22 14:23	10/04/22 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				09/30/22 14:23	10/04/22 21:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/30/22 14:23	10/04/22 21:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/05/22 10:47	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			10/03/22 11:45	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		09/30/22 08:55	09/30/22 17:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 17:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				09/30/22 08:55	09/30/22 17:01	1
o-Terphenyl	88		70 - 130				09/30/22 08:55	09/30/22 17:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		5.02		mg/Kg			10/03/22 09:43	1

Eurofins Midland

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-19823-1	BH1	111	100
880-19823-1 MS	BH1	115	108
880-19823-1 MSD	BH1	112	104
880-19823-2	BH2	111	106
880-19823-3	BH3	114	108
880-19823-4	BH4	117	106
880-19823-5	BH5	114	102
880-19823-6	BH6	115	102
LCS 880-35822/1-A	Lab Control Sample	108	102
LCSD 880-35822/2-A	Lab Control Sample Dup	108	102
MB 880-35822/5-A	Method Blank	103	112
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19823-1	BH1	89	94
880-19823-2	BH2	91	94
880-19823-3	BH3	90	94
880-19823-4	BH4	86	90
880-19823-5	BH5	96	103
880-19823-6	BH6	84	88
880-19829-A-1-C MS	Matrix Spike	74	67 S1-
880-19829-A-1-D MSD	Matrix Spike Duplicate	78	73
LCS 880-35755/2-A	Lab Control Sample	107	113
LCSD 880-35755/3-A	Lab Control Sample Dup	101	101
MB 880-35755/1-A	Method Blank	104	113
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35822/5-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:23	10/04/22 19:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/22 14:23	10/04/22 19:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/30/22 14:23	10/04/22 19:43	1
1,4-Difluorobenzene (Surr)	112		70 - 130	09/30/22 14:23	10/04/22 19:43	1

Lab Sample ID: LCS 880-35822/1-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09822		mg/Kg		98	70 - 130
Toluene	0.100	0.1046		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2088		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-35822/2-A

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08416		mg/Kg		84	70 - 130	15	35
Toluene	0.100	0.08894		mg/Kg		89	70 - 130	16	35
Ethylbenzene	0.100	0.08921		mg/Kg		89	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1794		mg/Kg		90	70 - 130	15	35
o-Xylene	0.100	0.08941		mg/Kg		89	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-19823-1 MS

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09243		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.0998	0.09415		mg/Kg		94	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-19823-1 MS

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09096		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1819		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08940		mg/Kg		90	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	115		70 - 130						
1,4-Difluorobenzene (Surr)	108		70 - 130						

Lab Sample ID: 880-19823-1 MSD

Matrix: Solid

Analysis Batch: 36069

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 35822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08515		mg/Kg		86	70 - 130	8	35
Toluene	<0.00200	U	0.0990	0.08949		mg/Kg		90	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0990	0.08762		mg/Kg		88	70 - 130	4	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1764		mg/Kg		89	70 - 130	3	35
o-Xylene	<0.00200	U	0.0990	0.08698		mg/Kg		88	70 - 130	3	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

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

Lab Sample ID: MB 880-35755/1-A

Matrix: Solid

Analysis Batch: 35738

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				09/30/22 08:55	09/30/22 09:28	1
o-Terphenyl	113		70 - 130				09/30/22 08:55	09/30/22 09:28	1

Lab Sample ID: LCS 880-35755/2-A

Matrix: Solid

Analysis Batch: 35738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	995.8		mg/Kg		100	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-35755/2-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35755

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-35755/3-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35755

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	939.2		mg/Kg		94	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	896.6		mg/Kg		90	70 - 130	10	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	101										
o-Terphenyl	101										

Lab Sample ID: 880-19829-A-1-C MS
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	727.0		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	758.3		mg/Kg		74	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	74										
o-Terphenyl	67	S1-									

Lab Sample ID: 880-19829-A-1-D MSD
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	731.1		mg/Kg		72	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	827.6		mg/Kg		81	70 - 130	9	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	78										
o-Terphenyl	73										

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35802/1-A
Matrix: Solid
Analysis Batch: 35924

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 08:45	1

Lab Sample ID: LCS 880-35802/2-A
Matrix: Solid
Analysis Batch: 35924

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.9		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-35802/3-A
Matrix: Solid
Analysis Batch: 35924

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	267.5		mg/Kg		107	90 - 110	10	20

Lab Sample ID: 880-19823-1 MS
Matrix: Solid
Analysis Batch: 35924

Client Sample ID: BH1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1750	F1	1240	2742	F1	mg/Kg		80	90 - 110

Lab Sample ID: 880-19823-1 MSD
Matrix: Solid
Analysis Batch: 35924

Client Sample ID: BH1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1750	F1	1240	2859		mg/Kg		90	90 - 110	4	20

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 35822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19823-1	BH1	Total/NA	Solid	5035	
880-19823-2	BH2	Total/NA	Solid	5035	
880-19823-3	BH3	Total/NA	Solid	5035	
880-19823-4	BH4	Total/NA	Solid	5035	
880-19823-5	BH5	Total/NA	Solid	5035	
880-19823-6	BH6	Total/NA	Solid	5035	
MB 880-35822/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35822/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35822/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19823-1 MS	BH1	Total/NA	Solid	5035	
880-19823-1 MSD	BH1	Total/NA	Solid	5035	

Analysis Batch: 36069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19823-1	BH1	Total/NA	Solid	8021B	35822
880-19823-2	BH2	Total/NA	Solid	8021B	35822
880-19823-3	BH3	Total/NA	Solid	8021B	35822
880-19823-4	BH4	Total/NA	Solid	8021B	35822
880-19823-5	BH5	Total/NA	Solid	8021B	35822
880-19823-6	BH6	Total/NA	Solid	8021B	35822
MB 880-35822/5-A	Method Blank	Total/NA	Solid	8021B	35822
LCS 880-35822/1-A	Lab Control Sample	Total/NA	Solid	8021B	35822
LCSD 880-35822/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35822
880-19823-1 MS	BH1	Total/NA	Solid	8021B	35822
880-19823-1 MSD	BH1	Total/NA	Solid	8021B	35822

Analysis Batch: 36160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19823-1	BH1	Total/NA	Solid	Total BTEX	
880-19823-2	BH2	Total/NA	Solid	Total BTEX	
880-19823-3	BH3	Total/NA	Solid	Total BTEX	
880-19823-4	BH4	Total/NA	Solid	Total BTEX	
880-19823-5	BH5	Total/NA	Solid	Total BTEX	
880-19823-6	BH6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19823-1	BH1	Total/NA	Solid	8015B NM	35755
880-19823-2	BH2	Total/NA	Solid	8015B NM	35755
880-19823-3	BH3	Total/NA	Solid	8015B NM	35755
880-19823-4	BH4	Total/NA	Solid	8015B NM	35755
880-19823-5	BH5	Total/NA	Solid	8015B NM	35755
880-19823-6	BH6	Total/NA	Solid	8015B NM	35755
MB 880-35755/1-A	Method Blank	Total/NA	Solid	8015B NM	35755
LCS 880-35755/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35755
LCSD 880-35755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35755
880-19829-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35755
880-19829-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35755

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QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 35755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19823-1	BH1	Total/NA	Solid	8015NM Prep	
880-19823-2	BH2	Total/NA	Solid	8015NM Prep	
880-19823-3	BH3	Total/NA	Solid	8015NM Prep	
880-19823-4	BH4	Total/NA	Solid	8015NM Prep	
880-19823-5	BH5	Total/NA	Solid	8015NM Prep	
880-19823-6	BH6	Total/NA	Solid	8015NM Prep	
MB 880-35755/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35755/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19829-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19829-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19823-1	BH1	Total/NA	Solid	8015 NM	
880-19823-2	BH2	Total/NA	Solid	8015 NM	
880-19823-3	BH3	Total/NA	Solid	8015 NM	
880-19823-4	BH4	Total/NA	Solid	8015 NM	
880-19823-5	BH5	Total/NA	Solid	8015 NM	
880-19823-6	BH6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19823-1	BH1	Soluble	Solid	DI Leach	
880-19823-2	BH2	Soluble	Solid	DI Leach	
880-19823-3	BH3	Soluble	Solid	DI Leach	
880-19823-4	BH4	Soluble	Solid	DI Leach	
880-19823-5	BH5	Soluble	Solid	DI Leach	
880-19823-6	BH6	Soluble	Solid	DI Leach	
MB 880-35802/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35802/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35802/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19823-1 MS	BH1	Soluble	Solid	DI Leach	
880-19823-1 MSD	BH1	Soluble	Solid	DI Leach	

Analysis Batch: 35924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19823-1	BH1	Soluble	Solid	300.0	35802
880-19823-2	BH2	Soluble	Solid	300.0	35802
880-19823-3	BH3	Soluble	Solid	300.0	35802
880-19823-4	BH4	Soluble	Solid	300.0	35802
880-19823-5	BH5	Soluble	Solid	300.0	35802
880-19823-6	BH6	Soluble	Solid	300.0	35802
MB 880-35802/1-A	Method Blank	Soluble	Solid	300.0	35802
LCS 880-35802/2-A	Lab Control Sample	Soluble	Solid	300.0	35802
LCSD 880-35802/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35802
880-19823-1 MS	BH1	Soluble	Solid	300.0	35802
880-19823-1 MSD	BH1	Soluble	Solid	300.0	35802

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19823-1

Date Collected: 09/29/22 08:48

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 20:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36160	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35976	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 15:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 08:59	CH	EET MID

Client Sample ID: BH2

Lab Sample ID: 880-19823-2

Date Collected: 09/29/22 08:58

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36160	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35976	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 15:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 09:14	CH	EET MID

Client Sample ID: BH3

Lab Sample ID: 880-19823-3

Date Collected: 09/29/22 09:08

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 20:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36160	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35976	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 15:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		5			35924	10/03/22 09:19	CH	EET MID

Client Sample ID: BH4

Lab Sample ID: 880-19823-4

Date Collected: 09/29/22 09:18

Matrix: Solid

Date Received: 09/29/22 15:53

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	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 21:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36160	10/05/22 10:47	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Client Sample ID: BH4

Lab Sample ID: 880-19823-4

Date Collected: 09/29/22 09:18

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35976	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 16:18	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 09:23	CH	EET MID

Client Sample ID: BH5

Lab Sample ID: 880-19823-5

Date Collected: 09/29/22 09:28

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 21:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36160	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35976	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 16:40	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 09:28	CH	EET MID

Client Sample ID: BH6

Lab Sample ID: 880-19823-6

Date Collected: 09/29/22 09:38

Matrix: Solid

Date Received: 09/29/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35822	09/30/22 14:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36069	10/04/22 21:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36160	10/05/22 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			35976	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 17:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35802	09/30/22 10:54	SMC	EET MID
Soluble	Analysis	300.0		1			35924	10/03/22 09:43	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19823-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19823-1	BH1	Solid	09/29/22 08:48	09/29/22 15:53	3'
880-19823-2	BH2	Solid	09/29/22 08:58	09/29/22 15:53	3'
880-19823-3	BH3	Solid	09/29/22 09:08	09/29/22 15:53	3'
880-19823-4	BH4	Solid	09/29/22 09:18	09/29/22 15:53	3'
880-19823-5	BH5	Solid	09/29/22 09:28	09/29/22 15:53	3'
880-19823-6	BH6	Solid	09/29/22 09:38	09/29/22 15:53	3'

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



Environmental Testing
Xenco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 968-3199

Chain of Custody

Work Order No:

19823

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Project Manager	Grant Huckabay	Bill to (if different)	
Company Name	Fasken Oil and Ranch	Company Name	
Address	6101 Holiday Hill Road	Address	
City, State ZIP	Midland TX 79707	City, State ZIP	
Phone	432-687-1777	Email	grant.huckabay@foi.com / addisonong@foi.com

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

Project Name	DEANTON #3 SWD	Turn Around	☐ Routine ☒ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number		Due Date	3 DAY													None NO	DI Water H ₂ O
Project Location	LEA Co. NM	TAT starts the day received by the lab if received by 4:30pm													Cool Cool	MeOH Me	
Sampler's Name	Addison Guelker														HCL HC	HNO ₃ HN	
PO #															H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐											H ₃ PO ₄ HP	
Samples Received Intact		Thermometer ID														NaHSO ₄ NABIS	
Cooler Custody Seals		Correction Factor														Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals		Temperature Reading	4-2													Zn Acetate+NaOH Zn	
Total Containers		Corrected Temperature	4-4													NaOH+Ascorbic Acid SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CL	EC	TPH 8015	BTEX 8021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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880-19823 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
Atti G.M.	U.S.V.	9/29/22			2
		1553			4
					6

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-19823-1

SDG Number: Lea Co, NM

Login Number: 19823

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19827-1

Laboratory Sample Delivery Group: Lea Co, NM

Client Project/Site: Denton #5 SWD

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

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

Authorized for release by:

10/4/2022 8:03:40 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Laboratory Job ID: 880-19827-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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
SQL	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: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Job ID: 880-19827-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-19827-1****Receipt**

The samples were received on 9/29/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: BH1 (880-19827-1), BH2 (880-19827-2), BH3 (880-19827-3), BH4 (880-19827-4), BH5 (880-19827-5) and BH6 (880-19827-6).

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35803 and analytical batch 880-35998 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35803 and analytical batch 880-35998 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19827-1

Date Collected: 09/29/22 08:49

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 18:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/22 14:51	10/04/22 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 18:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/22 14:51	10/04/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/30/22 14:51	10/04/22 18:07	1
1,4-Difluorobenzene (Surr)	102		70 - 130	09/30/22 14:51	10/04/22 18:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/04/22 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 12:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 12:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	09/30/22 15:02	10/01/22 12:57	1
o-Terphenyl	110		70 - 130	09/30/22 15:02	10/01/22 12:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		24.8		mg/Kg			10/03/22 16:43	5

Client Sample ID: BH2

Lab Sample ID: 880-19827-2

Date Collected: 09/29/22 08:59

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

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		09/30/22 14:51	10/04/22 18:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 18:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 18:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 18:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	09/30/22 14:51	10/04/22 18:28	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Client Sample ID: BH2

Lab Sample ID: 880-19827-2

Date Collected: 09/29/22 08:59

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	09/30/22 14:51	10/04/22 18:28	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			10/04/22 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/03/22 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/30/22 15:02	10/01/22 14:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/30/22 15:02	10/01/22 14:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/30/22 15:02	10/01/22 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				09/30/22 15:02	10/01/22 14:01	1
o-Terphenyl	94		70 - 130				09/30/22 15:02	10/01/22 14:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	761		4.96		mg/Kg			10/03/22 16:58	1

Client Sample ID: BH3

Lab Sample ID: 880-19827-3

Date Collected: 09/29/22 09:09

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 18:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 18:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 18:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/22 14:51	10/04/22 18:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 18:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/22 14:51	10/04/22 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	09/30/22 14:51	10/04/22 18:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/30/22 14:51	10/04/22 18:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/04/22 20:54	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			10/03/22 11:47	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Client Sample ID: BH3

Lab Sample ID: 880-19827-3

Date Collected: 09/29/22 09:09

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

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		09/30/22 15:02	10/01/22 14:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 15:02	10/01/22 14:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 15:02	10/01/22 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				09/30/22 15:02	10/01/22 14:23	1
o-Terphenyl	98		70 - 130				09/30/22 15:02	10/01/22 14:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1630		50.4		mg/Kg			10/03/22 17:03	10

Client Sample ID: BH4

Lab Sample ID: 880-19827-4

Date Collected: 09/29/22 09:19

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 19:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 19:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 19:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/22 14:51	10/04/22 19:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 19:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/22 14:51	10/04/22 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				09/30/22 14:51	10/04/22 19:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/30/22 14:51	10/04/22 19:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/04/22 20:54	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			10/03/22 11:47	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		09/30/22 15:02	10/01/22 14:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 15:02	10/01/22 14:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 15:02	10/01/22 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				09/30/22 15:02	10/01/22 14:44	1
o-Terphenyl	90		70 - 130				09/30/22 15:02	10/01/22 14:44	1

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Client Sample ID: BH4

Lab Sample ID: 880-19827-4

Date Collected: 09/29/22 09:19

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	518		4.99		mg/Kg			10/03/22 17:07	1

Client Sample ID: BH5

Lab Sample ID: 880-19827-5

Date Collected: 09/29/22 09:29

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

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		09/30/22 14:51	10/04/22 19:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 19:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 19:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 19:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/22 14:51	10/04/22 19:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/22 14:51	10/04/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				09/30/22 14:51	10/04/22 19:30	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/30/22 14:51	10/04/22 19:30	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			10/04/22 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				09/30/22 15:02	10/01/22 15:06	1
o-Terphenyl	107		70 - 130				09/30/22 15:02	10/01/22 15:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	572		24.9		mg/Kg			10/03/22 17:12	5

Eurofins Midland

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Client Sample ID: BH6

Lab Sample ID: 880-19827-6

Date Collected: 09/29/22 09:39

Matrix: Solid

Date Received: 09/29/22 16:15

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:51	10/04/22 19:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:51	10/04/22 19:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:51	10/04/22 19:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/22 14:51	10/04/22 19:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/22 14:51	10/04/22 19:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/22 14:51	10/04/22 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/30/22 14:51	10/04/22 19:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/30/22 14:51	10/04/22 19:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/04/22 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 15:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	09/30/22 15:02	10/01/22 15:27	1
o-Terphenyl	106		70 - 130	09/30/22 15:02	10/01/22 15:27	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		5.01		mg/Kg			10/03/22 17:17	1

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Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-19826-A-1-C MS	Matrix Spike	99	102
880-19826-A-1-D MSD	Matrix Spike Duplicate	96	98
880-19827-1	BH1	117	102
880-19827-2	BH2	122	102
880-19827-3	BH3	119	100
880-19827-4	BH4	123	102
880-19827-5	BH5	123	101
880-19827-6	BH6	121	100
LCS 880-35824/1-A	Lab Control Sample	83	93
LCSD 880-35824/2-A	Lab Control Sample Dup	87	98
MB 880-35824/5-A	Method Blank	94	82
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19827-1	BH1	99	110
880-19827-1 MS	BH1	75	78
880-19827-1 MSD	BH1	74	76
880-19827-2	BH2	84	94
880-19827-3	BH3	85	98
880-19827-4	BH4	79	90
880-19827-5	BH5	97	107
880-19827-6	BH6	94	106
LCS 880-35829/2-A	Lab Control Sample	114	126
LCSD 880-35829/3-A	Lab Control Sample Dup	95	106
MB 880-35829/1-A	Method Blank	99	114
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35824/5-A

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 14:51	10/04/22 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/22 14:51	10/04/22 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/30/22 14:51	10/04/22 11:52	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/30/22 14:51	10/04/22 11:52	1

Lab Sample ID: LCS 880-35824/1-A

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1004		mg/Kg		100	70 - 130
Toluene	0.100	0.1007		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09668		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2011		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-35824/2-A

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	3	35
Toluene	0.100	0.1037		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.09909		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2058		mg/Kg		103	70 - 130	2	35
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-19826-A-1-C MS

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09434		mg/Kg		94	70 - 130
Toluene	<0.00201	U	0.100	0.09769		mg/Kg		97	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-19826-A-1-C MS

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09359		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1989		mg/Kg		99	70 - 130
o-Xylene	<0.00201	U	0.100	0.1003		mg/Kg		100	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	99		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: 880-19826-A-1-D MSD

Matrix: Solid

Analysis Batch: 36027

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09755		mg/Kg		98	70 - 130	3	35
Toluene	<0.00201	U	0.0998	0.09855		mg/Kg		98	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0998	0.09317		mg/Kg		93	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1943		mg/Kg		97	70 - 130	2	35
o-Xylene	<0.00201	U	0.0998	0.09791		mg/Kg		98	70 - 130	2	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

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

Lab Sample ID: MB 880-35829/1-A

Matrix: Solid

Analysis Batch: 35865

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 11:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 11:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 15:02	10/01/22 11:52	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				09/30/22 15:02	10/01/22 11:52	1
o-Terphenyl	114		70 - 130				09/30/22 15:02	10/01/22 11:52	1

Lab Sample ID: LCS 880-35829/2-A

Matrix: Solid

Analysis Batch: 35865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	876.7		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-35829/2-A

Matrix: Solid

Analysis Batch: 35865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35829

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: LCSD 880-35829/3-A

Matrix: Solid

Analysis Batch: 35865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35829

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	981.2		mg/Kg		98	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	907.5		mg/Kg		91	70 - 130	19	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-19827-1 MS

Matrix: Solid

Analysis Batch: 35865

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 35829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	993.8		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	850.4		mg/Kg		83	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-19827-1 MSD

Matrix: Solid

Analysis Batch: 35865

Client Sample ID: BH1

Prep Type: Total/NA

Prep Batch: 35829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	979.4		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	836.8		mg/Kg		82	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	76		70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35803/1-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 15:59	1

Lab Sample ID: LCS 880-35803/2-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-35803/3-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-19826-A-3-B MS

Matrix: Solid

Analysis Batch: 35998

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	1640	F1	1260	2744	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-19826-A-3-C MSD

Matrix: Solid

Analysis Batch: 35998

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	1640	F1	1260	2751	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: 880-19828-A-1-C MS

Matrix: Solid

Analysis Batch: 35998

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	251	F1	252	456.8	F1	mg/Kg		82	90 - 110

Lab Sample ID: 880-19828-A-1-D MSD

Matrix: Solid

Analysis Batch: 35998

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	251	F1	252	457.2	F1	mg/Kg		82	90 - 110	0	20

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QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 35824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19827-1	BH1	Total/NA	Solid	5035	
880-19827-2	BH2	Total/NA	Solid	5035	
880-19827-3	BH3	Total/NA	Solid	5035	
880-19827-4	BH4	Total/NA	Solid	5035	
880-19827-5	BH5	Total/NA	Solid	5035	
880-19827-6	BH6	Total/NA	Solid	5035	
MB 880-35824/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35824/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35824/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19826-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-19826-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 36027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19827-1	BH1	Total/NA	Solid	8021B	35824
880-19827-2	BH2	Total/NA	Solid	8021B	35824
880-19827-3	BH3	Total/NA	Solid	8021B	35824
880-19827-4	BH4	Total/NA	Solid	8021B	35824
880-19827-5	BH5	Total/NA	Solid	8021B	35824
880-19827-6	BH6	Total/NA	Solid	8021B	35824
MB 880-35824/5-A	Method Blank	Total/NA	Solid	8021B	35824
LCS 880-35824/1-A	Lab Control Sample	Total/NA	Solid	8021B	35824
LCSD 880-35824/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35824
880-19826-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	35824
880-19826-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35824

Analysis Batch: 36112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19827-1	BH1	Total/NA	Solid	Total BTEX	
880-19827-2	BH2	Total/NA	Solid	Total BTEX	
880-19827-3	BH3	Total/NA	Solid	Total BTEX	
880-19827-4	BH4	Total/NA	Solid	Total BTEX	
880-19827-5	BH5	Total/NA	Solid	Total BTEX	
880-19827-6	BH6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 35829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19827-1	BH1	Total/NA	Solid	8015NM Prep	
880-19827-2	BH2	Total/NA	Solid	8015NM Prep	
880-19827-3	BH3	Total/NA	Solid	8015NM Prep	
880-19827-4	BH4	Total/NA	Solid	8015NM Prep	
880-19827-5	BH5	Total/NA	Solid	8015NM Prep	
880-19827-6	BH6	Total/NA	Solid	8015NM Prep	
MB 880-35829/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35829/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19827-1 MS	BH1	Total/NA	Solid	8015NM Prep	
880-19827-1 MSD	BH1	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

GC Semi VOA

Analysis Batch: 35865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19827-1	BH1	Total/NA	Solid	8015B NM	35829
880-19827-2	BH2	Total/NA	Solid	8015B NM	35829
880-19827-3	BH3	Total/NA	Solid	8015B NM	35829
880-19827-4	BH4	Total/NA	Solid	8015B NM	35829
880-19827-5	BH5	Total/NA	Solid	8015B NM	35829
880-19827-6	BH6	Total/NA	Solid	8015B NM	35829
MB 880-35829/1-A	Method Blank	Total/NA	Solid	8015B NM	35829
LCS 880-35829/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35829
LCSD 880-35829/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35829
880-19827-1 MS	BH1	Total/NA	Solid	8015B NM	35829
880-19827-1 MSD	BH1	Total/NA	Solid	8015B NM	35829

Analysis Batch: 35984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19827-1	BH1	Total/NA	Solid	8015 NM	
880-19827-2	BH2	Total/NA	Solid	8015 NM	
880-19827-3	BH3	Total/NA	Solid	8015 NM	
880-19827-4	BH4	Total/NA	Solid	8015 NM	
880-19827-5	BH5	Total/NA	Solid	8015 NM	
880-19827-6	BH6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19827-1	BH1	Soluble	Solid	DI Leach	
880-19827-2	BH2	Soluble	Solid	DI Leach	
880-19827-3	BH3	Soluble	Solid	DI Leach	
880-19827-4	BH4	Soluble	Solid	DI Leach	
880-19827-5	BH5	Soluble	Solid	DI Leach	
880-19827-6	BH6	Soluble	Solid	DI Leach	
MB 880-35803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19826-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19826-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-19828-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19828-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 35998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19827-1	BH1	Soluble	Solid	300.0	35803
880-19827-2	BH2	Soluble	Solid	300.0	35803
880-19827-3	BH3	Soluble	Solid	300.0	35803
880-19827-4	BH4	Soluble	Solid	300.0	35803
880-19827-5	BH5	Soluble	Solid	300.0	35803
880-19827-6	BH6	Soluble	Solid	300.0	35803
MB 880-35803/1-A	Method Blank	Soluble	Solid	300.0	35803
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	300.0	35803
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35803
880-19826-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	35803

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 35998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19826-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35803
880-19828-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	35803
880-19828-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35803

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Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Client Sample ID: BH1

Lab Sample ID: 880-19827-1

Date Collected: 09/29/22 08:49

Matrix: Solid

Date Received: 09/29/22 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36112	10/04/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35984	10/03/22 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35829	09/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35865	10/01/22 12:57	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		5			35998	10/03/22 16:43	CH	EET MID

Client Sample ID: BH2

Lab Sample ID: 880-19827-2

Date Collected: 09/29/22 08:59

Matrix: Solid

Date Received: 09/29/22 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 18:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36112	10/04/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35984	10/03/22 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35829	09/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35865	10/01/22 14:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 16:58	CH	EET MID

Client Sample ID: BH3

Lab Sample ID: 880-19827-3

Date Collected: 09/29/22 09:09

Matrix: Solid

Date Received: 09/29/22 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36112	10/04/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35984	10/03/22 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35829	09/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35865	10/01/22 14:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		10			35998	10/03/22 17:03	CH	EET MID

Client Sample ID: BH4

Lab Sample ID: 880-19827-4

Date Collected: 09/29/22 09:19

Matrix: Solid

Date Received: 09/29/22 16:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36112	10/04/22 20:54	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Client Sample ID: BH4
Date Collected: 09/29/22 09:19
Date Received: 09/29/22 16:15

Lab Sample ID: 880-19827-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35984	10/03/22 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35829	09/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35865	10/01/22 14:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 17:07	CH	EET MID

Client Sample ID: BH5
Date Collected: 09/29/22 09:29
Date Received: 09/29/22 16:15

Lab Sample ID: 880-19827-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 19:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36112	10/04/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35984	10/03/22 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35829	09/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35865	10/01/22 15:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		5			35998	10/03/22 17:12	CH	EET MID

Client Sample ID: BH6
Date Collected: 09/29/22 09:39
Date Received: 09/29/22 16:15

Lab Sample ID: 880-19827-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35824	09/30/22 14:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	36027	10/04/22 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			36112	10/04/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35984	10/03/22 11:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35829	09/30/22 15:02	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35865	10/01/22 15:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 17:17	CH	EET MID

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

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

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- 2
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Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19827-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19827-1	BH1	Solid	09/29/22 08:49	09/29/22 16:15	4'
880-19827-2	BH2	Solid	09/29/22 08:59	09/29/22 16:15	4'
880-19827-3	BH3	Solid	09/29/22 09:09	09/29/22 16:15	4'
880-19827-4	BH4	Solid	09/29/22 09:19	09/29/22 16:15	4'
880-19827-5	BH5	Solid	09/29/22 09:29	09/29/22 16:15	4'
880-19827-6	BH6	Solid	09/29/22 09:39	09/29/22 16:15	4'

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Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad NM (575) 988-3199

Work Order No: 19827

www.xenco.com Page 1 of 1

Project Manager	GRANT HUCKABY	Bill to: (if different)	
Company Name	FAKED AL AND PANCH, LTD	Company Name	
Address	6101 HOLIDAY BLVD	Address	
City, State ZIP	MUOANO TX 79707	City, State ZIP	
Phone	432-687-1777	Email	granthuck@ford.com, address@ford.com

Program: UST/PST ☐ PPP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables EDD ☐ ADAPT ☐ Other

Project Name	DEPTW #5 SWD	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number	LEA Co NM	Due Date	3 DAY		
Project Location	Address: Everett	TAT starts the day received by the lab, if received by 4:30pm			
PO #					
SAMPLE RECEIPT	Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☒ No ☐	
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID			
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor			
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
BH1		9/29/22	8:49	4'	G	1	CL		None NO	DI Water H ₂ O
BH2			8:59			1	TPH 8015M		Cool Cool	MeOH Me
BH3			9:09			1	BTEX 8021B		HCL HC	HNO ₃ HN
BH4			9:19			1			H ₂ SO ₄ H ₂	NaOH Na
BH5			9:29			1			H ₃ PO ₄ HP	
BH6			9:39			1			NaHSO ₄ NABIS	
									Na ₂ S ₂ O ₃ NaSO ₃	
									Zn Acetate+NaOH Zn	
									NaOH+Ascorbic Acid SAsC	



880-19827 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		9/29/22			
		10/10			

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-19827-1

SDG Number: Lea Co, NM

Login Number: 19827

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19829-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Denton #5 SWD

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

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

Authorized for release by:

10/4/2022 9:03:13 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Laboratory Job ID: 880-19829-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

Case Narrative

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Job ID: 880-19829-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-19829-1
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Receipt

The sample was received on 9/29/2022 4:10 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 4.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: BG (880-19829-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-19347-A-7-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BG (880-19829-1) and (880-19829-A-1-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35803 and analytical batch 880-35998 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Client Sample ID: BG

Lab Sample ID: 880-19829-1

Date Collected: 09/29/22 11:00

Matrix: Solid

Date Received: 09/29/22 16:10

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 08:57	09/30/22 15:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 08:57	09/30/22 15:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 08:57	09/30/22 15:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/22 08:57	09/30/22 15:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 08:57	09/30/22 15:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/22 08:57	09/30/22 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/30/22 08:57	09/30/22 15:32	1
1,4-Difluorobenzene (Surr)	73		70 - 130	09/30/22 08:57	09/30/22 15:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/30/22 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 10:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 10:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	09/30/22 08:55	09/30/22 10:33	1
o-Terphenyl	68	S1-	70 - 130	09/30/22 08:55	09/30/22 10:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		4.98		mg/Kg			10/03/22 17:56	1

Eurofins Midland

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-19347-A-7-F MS	Matrix Spike	118	105
880-19347-A-7-G MSD	Matrix Spike Duplicate	133 S1+	102
880-19829-1	BG	102	73
LCS 880-35745/1-A	Lab Control Sample	120	102
LCSD 880-35745/2-A	Lab Control Sample Dup	128	95
MB 880-35745/5-A	Method Blank	104	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19829-1	BG	69 S1-	68 S1-
880-19829-1 MS	BG	74	67 S1-
880-19829-1 MSD	BG	78	73
LCS 880-35755/2-A	Lab Control Sample	107	113
LCSD 880-35755/3-A	Lab Control Sample Dup	101	101
MB 880-35755/1-A	Method Blank	104	113

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35745/5-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/22 07:58	09/30/22 10:23	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/22 07:58	09/30/22 10:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/30/22 07:58	09/30/22 10:23	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/30/22 07:58	09/30/22 10:23	1

Lab Sample ID: LCS 880-35745/1-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08346		mg/Kg		83	70 - 130
Toluene	0.100	0.07921		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08765		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-35745/2-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07504		mg/Kg		75	70 - 130	11	35
Toluene	0.100	0.08078		mg/Kg		81	70 - 130	2	35
Ethylbenzene	0.100	0.08938		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.1078		mg/Kg		108	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-19347-A-7-F MS

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.08818		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.0998	0.08271		mg/Kg		83	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-19347-A-7-F MS

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.08821		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1806		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1019		mg/Kg		102	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	118		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Lab Sample ID: 880-19347-A-7-G MSD

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35745

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08390		mg/Kg		84	70 - 130	5	35
Toluene	<0.00200	U	0.0996	0.08269		mg/Kg		83	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.09357		mg/Kg		94	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1984		mg/Kg		100	70 - 130	9	35
o-Xylene	<0.00200	U	0.0996	0.1133		mg/Kg		114	70 - 130	11	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-35755/1-A

Matrix: Solid

Analysis Batch: 35738

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: LCS 880-35755/2-A

Matrix: Solid

Analysis Batch: 35738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	995.8		mg/Kg		100	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-35755/2-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35755

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-35755/3-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35755

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	939.2		mg/Kg		94	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	896.6		mg/Kg		90	70 - 130	10	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	101										
o-Terphenyl	101										

Lab Sample ID: 880-19829-1 MS
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: BG
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	727.0		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	758.3		mg/Kg		74	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	74										
o-Terphenyl	67	S1-									

Lab Sample ID: 880-19829-1 MSD
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: BG
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	731.1		mg/Kg		72	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	827.6		mg/Kg		81	70 - 130	9	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	78										
o-Terphenyl	73										

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35803/1-A Matrix: Solid Analysis Batch: 35998										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 15:59	1		

Lab Sample ID: LCS 880-35803/2-A Matrix: Solid Analysis Batch: 35998										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	243.8		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-35803/3-A Matrix: Solid Analysis Batch: 35998										Client Sample ID: Lab Control Sample Dup Prep Type: Soluble	
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.3		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-19828-A-1-C MS Matrix: Solid Analysis Batch: 35998										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	251	F1	252	456.8	F1	mg/Kg		82	90 - 110		

Lab Sample ID: 880-19828-A-1-D MSD Matrix: Solid Analysis Batch: 35998										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	251	F1	252	457.2	F1	mg/Kg		82	90 - 110	0	20

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 35744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19829-1	BG	Total/NA	Solid	8021B	35745
MB 880-35745/5-A	Method Blank	Total/NA	Solid	8021B	35745
LCS 880-35745/1-A	Lab Control Sample	Total/NA	Solid	8021B	35745
LCSD 880-35745/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35745
880-19347-A-7-F MS	Matrix Spike	Total/NA	Solid	8021B	35745
880-19347-A-7-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35745

Prep Batch: 35745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19829-1	BG	Total/NA	Solid	5035	
MB 880-35745/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35745/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35745/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19347-A-7-F MS	Matrix Spike	Total/NA	Solid	5035	
880-19347-A-7-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 35841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19829-1	BG	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19829-1	BG	Total/NA	Solid	8015B NM	35755
MB 880-35755/1-A	Method Blank	Total/NA	Solid	8015B NM	35755
LCS 880-35755/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35755
LCSD 880-35755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35755
880-19829-1 MS	BG	Total/NA	Solid	8015B NM	35755
880-19829-1 MSD	BG	Total/NA	Solid	8015B NM	35755

Prep Batch: 35755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19829-1	BG	Total/NA	Solid	8015NM Prep	
MB 880-35755/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35755/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19829-1 MS	BG	Total/NA	Solid	8015NM Prep	
880-19829-1 MSD	BG	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19829-1	BG	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19829-1	BG	Soluble	Solid	DI Leach	
MB 880-35803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 35803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19828-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 35998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19829-1	BG	Soluble	Solid	300.0	35803
MB 880-35803/1-A	Method Blank	Soluble	Solid	300.0	35803
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	300.0	35803
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35803
880-19828-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	35803
880-19828-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35803

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Client Sample ID: BG
Date Collected: 09/29/22 11:00
Date Received: 09/29/22 16:10

Lab Sample ID: 880-19829-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35745	09/30/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	09/30/22 15:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35841	09/30/22 17:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			35974	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 10:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 17:56	CH	EET MID

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

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19829-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19829-1	BG	Solid	09/29/22 11:00	09/29/22 16:10	0-6"

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



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: 19829

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Project Manager	G-RANT HUCKABAY	Bill to: (if different)	
Company Name:	FISKEN OIL AND SERVICE LTD.	Company Name:	
Address	6001 HOUDEY HILL RD.	Address:	
City, State ZIP:	MIDLAND, TX 79707	City, State ZIP:	
Phone:	432-687-1777	Email	granth@foi.com adel.sengfoi.com

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

Project Name:	DEMN HS SWD	
P project Number:		
Project Location:	LEA Co. NV	
Sampler's Name:	Abdisaw GUEVERE	
P.O. #		
	TAT starts the day received by the lab, if received by 4:30pm	
	Turn Around ☐ routine ☒ Rush	
	Due Date	3 DAY
	Pres. Code	
		ANALYSIS REQUEST
		Preservative Codes
None	NO	DI Water H ₂ O
Cool	Cool	Meth Me
HCL	HC	HNO ₃ HN
H ₂ SO ₄	H ₂	NaOH Na

SAMPLE RECEIPT		Tamp Blank:	Yes	No	Well Ice	Yes	No
Samples Received Intact:	Yes	No			Thermometer ID:	378	
Cooler Custody Seals:	Yes	No			Correction Factor:	-20	
Sample Custody Seals:	Yes	No			Temperature Reading	42	
Total Containers:		N/A			Corrected Temperature:	44	

Parameter:

L
H 8015m
EX 80213

H ₃ PO ₄ , HP	
NaHSO ₄ , NABIS	
Na ₂ S ₂ O ₃ , NASO ₃	
Zn Acetate+NaOH, Zn	
NaOH+Ascorbic Acid, SAPC	

[illegible]

880-19829 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP	6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U			Hg	1631 / 245	1 / 7470	1 / 7471						

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	9/29/22			

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-19829-1

SDG Number: Lea Co, NM

Login Number: 19829

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19828-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Denton #5 SWD

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

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

Authorized for release by:
10/4/2022 10:33:26 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Laboratory Job ID: 880-19828-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

Case Narrative

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Job ID: 880-19828-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-19828-1
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Receipt

The samples were received on 9/29/2022 4:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: North (880-19828-1), South (880-19828-2) and West (880-19828-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: West (880-19828-3). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-19829-A-1-B) and (880-19829-A-1-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35803 and analytical batch 880-35998 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Client Sample ID: North

Lab Sample ID: 880-19828-1

Date Collected: 09/29/22 10:15

Matrix: Solid

Date Received: 09/29/22 16:10

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/03/22 13:34	10/04/22 00:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/03/22 13:34	10/04/22 00:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/03/22 13:34	10/04/22 00:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/03/22 13:34	10/04/22 00:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/03/22 13:34	10/04/22 00:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/03/22 13:34	10/04/22 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/03/22 13:34	10/04/22 00:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/03/22 13:34	10/04/22 00:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/04/22 08:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/22 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 17:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 17:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	09/30/22 08:55	09/30/22 17:22	1
o-Terphenyl	92		70 - 130	09/30/22 08:55	09/30/22 17:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	251	F1	5.03		mg/Kg			10/03/22 17:22	1

Client Sample ID: South

Lab Sample ID: 880-19828-2

Date Collected: 09/29/22 10:30

Matrix: Solid

Date Received: 09/29/22 16:10

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/03/22 13:34	10/04/22 02:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/03/22 13:34	10/04/22 02:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/03/22 13:34	10/04/22 02:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/03/22 13:34	10/04/22 02:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/03/22 13:34	10/04/22 02:50	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/03/22 13:34	10/04/22 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	10/03/22 13:34	10/04/22 02:50	1

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Client Sample ID: South

Lab Sample ID: 880-19828-2

Date Collected: 09/29/22 10:30

Matrix: Solid

Date Received: 09/29/22 16:10

Sample Depth: 0-6"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	10/03/22 13:34	10/04/22 02:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/04/22 08:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/22 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				09/30/22 08:55	09/30/22 17:44	1
o-Terphenyl	104		70 - 130				09/30/22 08:55	09/30/22 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.5		4.97		mg/Kg			10/03/22 17:37	1

Client Sample ID: West

Lab Sample ID: 880-19828-3

Date Collected: 09/29/22 10:45

Matrix: Solid

Date Received: 09/29/22 16:10

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/03/22 13:34	10/04/22 03:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/03/22 13:34	10/04/22 03:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/03/22 13:34	10/04/22 03:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/03/22 13:34	10/04/22 03:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/03/22 13:34	10/04/22 03:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/03/22 13:34	10/04/22 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	10/03/22 13:34	10/04/22 03:11	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/03/22 13:34	10/04/22 03:11	1

Method: 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			10/04/22 08:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/22 11:45	1

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Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Client Sample ID: West
Date Collected: 09/29/22 10:45
Date Received: 09/29/22 16:10
Sample Depth: 0-6"

Lab Sample ID: 880-19828-3
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 18:05	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 18:05	1	
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 18:05	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	82		70 - 130				09/30/22 08:55	09/30/22 18:05	1	
o-Terphenyl	84		70 - 130				09/30/22 08:55	09/30/22 18:05	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	31.2		4.97		mg/Kg			10/03/22 17:42	1	

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-19828-1	North	119	94
880-19828-2	South	120	101
880-19828-3	West	137 S1+	109
890-3026-A-1-D MS	Matrix Spike	93	96
890-3026-A-1-E MSD	Matrix Spike Duplicate	95	97
LCS 880-35997/1-A	Lab Control Sample	88	96
LCSD 880-35997/2-A	Lab Control Sample Dup	89	97
MB 880-35997/5-A	Method Blank	94	85
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19828-1	North	89	92
880-19828-2	South	101	104
880-19828-3	West	82	84
880-19829-A-1-C MS	Matrix Spike	74	67 S1-
880-19829-A-1-D MSD	Matrix Spike Duplicate	78	73
LCS 880-35755/2-A	Lab Control Sample	107	113
LCSD 880-35755/3-A	Lab Control Sample Dup	101	101
MB 880-35755/1-A	Method Blank	104	113
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35997/5-A

Matrix: Solid

Analysis Batch: 35920

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/03/22 13:34	10/03/22 22:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/03/22 13:34	10/03/22 22:00	1
1,4-Difluorobenzene (Surr)	85		70 - 130	10/03/22 13:34	10/03/22 22:00	1

Lab Sample ID: LCS 880-35997/1-A

Matrix: Solid

Analysis Batch: 35920

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1071		mg/Kg		107	70 - 130
Toluene	0.100	0.1071		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.09944		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2049		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-35997/2-A

Matrix: Solid

Analysis Batch: 35920

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1072		mg/Kg		107	70 - 130	0	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	0	35
Ethylbenzene	0.100	0.09953		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2078		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-3026-A-1-D MS

Matrix: Solid

Analysis Batch: 35920

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.09738		mg/Kg		98	70 - 130
Toluene	<0.00201	U	0.0998	0.1003		mg/Kg		100	70 - 130

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QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-3026-A-1-D MS
Matrix: Solid
Analysis Batch: 35920

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.09562		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1967		mg/Kg		99	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1000		mg/Kg		100	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						
1,4-Difluorobenzene (Surr)	96		70 - 130						

Lab Sample ID: 890-3026-A-1-E MSD
Matrix: Solid
Analysis Batch: 35920

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09537		mg/Kg		95	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.09776		mg/Kg		98	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.100	0.09210		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1922		mg/Kg		96	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.09755		mg/Kg		97	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-35755/1-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: LCS 880-35755/2-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	995.8		mg/Kg		100	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-35755/2-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35755

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-35755/3-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	939.2		mg/Kg		94	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	896.6		mg/Kg		90	70 - 130	10	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		101		70 - 130					
o-Terphenyl		101		70 - 130					

Lab Sample ID: 880-19829-A-1-C MS
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	727.0		mg/Kg		71	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	758.3		mg/Kg		74	70 - 130		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane		74		70 - 130							
o-Terphenyl		67	S1-	70 - 130							

Lab Sample ID: 880-19829-A-1-D MSD
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	731.1		mg/Kg		72	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	827.6		mg/Kg		81	70 - 130	9	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1-Chlorooctane		78		70 - 130							
o-Terphenyl		73		70 - 130							

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35803/1-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 15:59	1

Lab Sample ID: LCS 880-35803/2-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-35803/3-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-19828-1 MS

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: North

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	251	F1	252	456.8	F1	mg/Kg		82	90 - 110

Lab Sample ID: 880-19828-1 MSD

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: North

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	251	F1	252	457.2	F1	mg/Kg		82	90 - 110	0	20

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 35920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-1	North	Total/NA	Solid	8021B	35997
880-19828-2	South	Total/NA	Solid	8021B	35997
880-19828-3	West	Total/NA	Solid	8021B	35997
MB 880-35997/5-A	Method Blank	Total/NA	Solid	8021B	35997
LCS 880-35997/1-A	Lab Control Sample	Total/NA	Solid	8021B	35997
LCSD 880-35997/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35997
890-3026-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	35997
890-3026-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35997

Prep Batch: 35997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-1	North	Total/NA	Solid	5035	
880-19828-2	South	Total/NA	Solid	5035	
880-19828-3	West	Total/NA	Solid	5035	
MB 880-35997/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35997/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35997/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3026-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3026-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 36031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-1	North	Total/NA	Solid	Total BTEX	
880-19828-2	South	Total/NA	Solid	Total BTEX	
880-19828-3	West	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-1	North	Total/NA	Solid	8015B NM	35755
880-19828-2	South	Total/NA	Solid	8015B NM	35755
880-19828-3	West	Total/NA	Solid	8015B NM	35755
MB 880-35755/1-A	Method Blank	Total/NA	Solid	8015B NM	35755
LCS 880-35755/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35755
LCSD 880-35755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35755
880-19829-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35755
880-19829-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35755

Prep Batch: 35755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-1	North	Total/NA	Solid	8015NM Prep	
880-19828-2	South	Total/NA	Solid	8015NM Prep	
880-19828-3	West	Total/NA	Solid	8015NM Prep	
MB 880-35755/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35755/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19829-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19829-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

GC Semi VOA

Analysis Batch: 35977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-1	North	Total/NA	Solid	8015 NM	
880-19828-2	South	Total/NA	Solid	8015 NM	
880-19828-3	West	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-1	North	Soluble	Solid	DI Leach	
880-19828-2	South	Soluble	Solid	DI Leach	
880-19828-3	West	Soluble	Solid	DI Leach	
MB 880-35803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-19828-1 MS	North	Soluble	Solid	DI Leach	
880-19828-1 MSD	North	Soluble	Solid	DI Leach	

Analysis Batch: 35998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-1	North	Soluble	Solid	300.0	35803
880-19828-2	South	Soluble	Solid	300.0	35803
880-19828-3	West	Soluble	Solid	300.0	35803
MB 880-35803/1-A	Method Blank	Soluble	Solid	300.0	35803
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	300.0	35803
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35803
880-19828-1 MS	North	Soluble	Solid	300.0	35803
880-19828-1 MSD	North	Soluble	Solid	300.0	35803

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Client Sample ID: North

Lab Sample ID: 880-19828-1

Date Collected: 09/29/22 10:15

Matrix: Solid

Date Received: 09/29/22 16:10

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	35997	10/03/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35920	10/04/22 00:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36031	10/04/22 08:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35977	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 17:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 17:22	CH	EET MID

Client Sample ID: South

Lab Sample ID: 880-19828-2

Date Collected: 09/29/22 10:30

Matrix: Solid

Date Received: 09/29/22 16:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35997	10/03/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35920	10/04/22 02:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36031	10/04/22 08:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35977	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 17:44	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 17:37	CH	EET MID

Client Sample ID: West

Lab Sample ID: 880-19828-3

Date Collected: 09/29/22 10:45

Matrix: Solid

Date Received: 09/29/22 16:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35997	10/03/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35920	10/04/22 03:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36031	10/04/22 08:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35977	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 18:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 17:42	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19828-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19828-1	North	Solid	09/29/22 10:15	09/29/22 16:10	0-6"
880-19828-2	South	Solid	09/29/22 10:30	09/29/22 16:10	0-6"
880-19828-3	West	Solid	09/29/22 10:45	09/29/22 16:10	0-6"

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3332
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

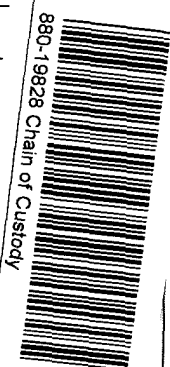
Chain of Custody

Work Order No: 19828

www.xenco.com Page 6 of 7

Project Manager	GRANT HUCKABAY	Bill to: (if different)	
Company Name	FASKEN OIL AND RANCH, LTD	Company Name	
Address:	4101 HUMBART HWY RD.	Address:	
City, State ZIP	MIDLAND, TX 79707	City, State ZIP	
Phone	432-687-1777	Email	grathyofoel.com, address@foel.com

Work Order Comments				
Program.	UST/PST ☐	PRRP ☐	Brownfields ☐	RRC ☐ Superfund ☐
State of Project:				
Reporting	Level II ☐	Level III ☐	PST/UST ☐	TRRP ☐ Level IV ☐
Deliverables	EDD ☐	ADAPT ☐	Other: _____	

[illegible][illegible]

880-19828 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
	TCIP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
		Hg 1631 / 245 1 / 7470 / 7471

Notices: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	01/29/22	2		
3		10/10	4		
5			6		

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-19828-1

SDG Number: Lea Co, NM

Login Number: 19828

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-19830-1

Laboratory Sample Delivery Group: Lea Co, NM
Client Project/Site: Denton #5 SWD

For:

Fasken Oil and Ranch
6101 Holiday Hill Road
Midland, Texas 79707

Attn: Grant Huckabay

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

Authorized for release by:

10/4/2022 10:34:23 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Laboratory Job ID: 880-19830-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, 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: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Job ID: 880-19830-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-19830-1
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Receipt

The sample was received on 9/29/2022 4:10 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 4.4°C

Receipt Exceptions

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: East (880-19830-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-19829-A-1-B) and (880-19829-A-1-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35803 and analytical batch 880-35998 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Client Sample ID: East

Lab Sample ID: 880-19830-1

Date Collected: 09/29/22 10:00

Matrix: Solid

Date Received: 09/29/22 16:10

Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/03/22 13:34	10/04/22 00:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/03/22 13:34	10/04/22 00:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/03/22 13:34	10/04/22 00:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/03/22 13:34	10/04/22 00:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/03/22 13:34	10/04/22 00:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/03/22 13:34	10/04/22 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	10/03/22 13:34	10/04/22 00:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130	10/03/22 13:34	10/04/22 00:25	1

Method: 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			10/04/22 08:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/22 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 18:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/30/22 08:55	09/30/22 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	09/30/22 08:55	09/30/22 18:27	1
o-Terphenyl	87		70 - 130	09/30/22 08:55	09/30/22 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	437		5.01		mg/Kg			10/03/22 18:01	1

Eurofins Midland

Surrogate Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-19830-1	East	114	100
890-3026-A-1-D MS	Matrix Spike	93	96
890-3026-A-1-E MSD	Matrix Spike Duplicate	95	97
LCS 880-35997/1-A	Lab Control Sample	88	96
LCSD 880-35997/2-A	Lab Control Sample Dup	89	97
MB 880-35997/5-A	Method Blank	94	85
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-19829-A-1-C MS	Matrix Spike	74	67 S1-
880-19829-A-1-D MSD	Matrix Spike Duplicate	78	73
880-19830-1	East	88	87
LCS 880-35755/2-A	Lab Control Sample	107	113
LCSD 880-35755/3-A	Lab Control Sample Dup	101	101
MB 880-35755/1-A	Method Blank	104	113
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35997/5-A

Matrix: Solid

Analysis Batch: 35920

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/03/22 13:34	10/03/22 22:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/03/22 13:34	10/03/22 22:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/03/22 13:34	10/03/22 22:00	1
1,4-Difluorobenzene (Surr)	85		70 - 130	10/03/22 13:34	10/03/22 22:00	1

Lab Sample ID: LCS 880-35997/1-A

Matrix: Solid

Analysis Batch: 35920

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1071		mg/Kg		107	70 - 130
Toluene	0.100	0.1071		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.09944		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2049		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-35997/2-A

Matrix: Solid

Analysis Batch: 35920

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1072		mg/Kg		107	70 - 130	0	35
Toluene	0.100	0.1073		mg/Kg		107	70 - 130	0	35
Ethylbenzene	0.100	0.09953		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2078		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-3026-A-1-D MS

Matrix: Solid

Analysis Batch: 35920

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.09738		mg/Kg		98	70 - 130
Toluene	<0.00201	U	0.0998	0.1003		mg/Kg		100	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-3026-A-1-D MS
Matrix: Solid
Analysis Batch: 35920

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0998	0.09562		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1967		mg/Kg		99	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1000		mg/Kg		100	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						
1,4-Difluorobenzene (Surr)	96		70 - 130						

Lab Sample ID: 890-3026-A-1-E MSD
Matrix: Solid
Analysis Batch: 35920

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09537		mg/Kg		95	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.09776		mg/Kg		98	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.100	0.09210		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1922		mg/Kg		96	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.09755		mg/Kg		97	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-35755/1-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 35755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/22 08:55	09/30/22 09:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: LCS 880-35755/2-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	995.8		mg/Kg		100	70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-35755/2-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 35755

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-35755/3-A
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	939.2		mg/Kg		94	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	896.6		mg/Kg		90	70 - 130	10	20

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

Lab Sample ID: 880-19829-A-1-C MS
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	727.0		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	758.3		mg/Kg		74	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: 880-19829-A-1-D MSD
Matrix: Solid
Analysis Batch: 35738

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 35755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	731.1		mg/Kg		72	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	827.6		mg/Kg		81	70 - 130	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	73		70 - 130

Eurofins Midland

QC Sample Results

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35803/1-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/03/22 15:59	1

Lab Sample ID: LCS 880-35803/2-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-35803/3-A

Matrix: Solid

Analysis Batch: 35998

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-19828-A-1-C MS

Matrix: Solid

Analysis Batch: 35998

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	251	F1	252	456.8	F1	mg/Kg		82	90 - 110

Lab Sample ID: 880-19828-A-1-D MSD

Matrix: Solid

Analysis Batch: 35998

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	251	F1	252	457.2	F1	mg/Kg		82	90 - 110	0	20

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 35920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19830-1	East	Total/NA	Solid	8021B	35997
MB 880-35997/5-A	Method Blank	Total/NA	Solid	8021B	35997
LCS 880-35997/1-A	Lab Control Sample	Total/NA	Solid	8021B	35997
LCSD 880-35997/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35997
890-3026-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	35997
890-3026-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35997

Prep Batch: 35997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19830-1	East	Total/NA	Solid	5035	
MB 880-35997/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35997/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35997/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3026-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3026-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 36030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19830-1	East	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 35738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19830-1	East	Total/NA	Solid	8015B NM	35755
MB 880-35755/1-A	Method Blank	Total/NA	Solid	8015B NM	35755
LCS 880-35755/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35755
LCSD 880-35755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35755
880-19829-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35755
880-19829-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35755

Prep Batch: 35755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19830-1	East	Total/NA	Solid	8015NM Prep	
MB 880-35755/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35755/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35755/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19829-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19829-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19830-1	East	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19830-1	East	Soluble	Solid	DI Leach	
MB 880-35803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 35803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19828-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-19828-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 35998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-19830-1	East	Soluble	Solid	300.0	35803
MB 880-35803/1-A	Method Blank	Soluble	Solid	300.0	35803
LCS 880-35803/2-A	Lab Control Sample	Soluble	Solid	300.0	35803
LCSD 880-35803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35803
880-19828-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	35803
880-19828-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35803

Lab Chronicle

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Client Sample ID: East
Date Collected: 09/29/22 10:00
Date Received: 09/29/22 16:10

Lab Sample ID: 880-19830-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35997	10/03/22 13:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35920	10/04/22 00:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36030	10/04/22 08:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35978	10/03/22 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35755	09/30/22 08:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35738	09/30/22 18:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	35803	09/30/22 10:58	SMC	EET MID
Soluble	Analysis	300.0		1			35998	10/03/22 18:01	CH	EET MID

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

Accreditation/Certification Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

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

Method Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Fasken Oil and Ranch
Project/Site: Denton #5 SWD

Job ID: 880-19830-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-19830-1	East	Solid	09/29/22 10:00	09/29/22 16:10	0-6"

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Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 19830

www.xenco.com Page 10 of 11

Project Manager:	GRANT HICKAM		Bill to: (if different)	
Company Name:	FASKEW CIL AND PUNCH, LTD.		Company Name:	
Address:	6101 HEDGAY BLVD.		Address:	
City, State ZIP:	MOLAND, TX 79707		City, State ZIP:	
Phone:	432-687-1771	Email:	grant@foel.com; ad@waynefoel.com	

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

[illegible][illegible]

880-19830 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
	TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
		Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 		9/29/22	2		
3		10/10	4		
5			6		

Login Sample Receipt Checklist

Client: Fasken Oil and Ranch

Job Number: 880-19830-1

SDG Number: Lea Co, NM

Login Number: 19830

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Conner Moehring
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 6/8/2023 9:14:30 AM

JOB DESCRIPTION

Denton 5 SWD
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-29157-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
6/8/2023 9:14:30 AM

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

Client: Carmona Resources
Project/Site: Denton 5 SWD

Laboratory Job ID: 880-29157-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Job ID: 880-29157-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-29157-1****Receipt**

The samples were received on 6/6/2023 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (1') (880-29157-1), CS-2 (1') (880-29157-2), CS-3 (1') (880-29157-3), CS-4 (1') (880-29157-4), CS-5 (1') (880-29157-5), CS-6 (1') (880-29157-6), CS-7 (1') (880-29157-7), CS-8 (1') (880-29157-8), CS-9 (1') (880-29157-9), CS-10 (1') (880-29157-10), CS-11 (1') (880-29157-11), CS-12 (1') (880-29157-12), CS-13 (1') (880-29157-13), CS-14 (1') (880-29157-14), CS-15 (1') (880-29157-15), CS-16 (1') (880-29157-16), CS-17 (1') (880-29157-17), CS-18 (1') (880-29157-18), CS-19 (1') (880-29157-19), CS-20 (1') (880-29157-20), CS-21 (1') (880-29157-21), CS-22 (1') (880-29157-22), CS-23 (1') (880-29157-23), CS-24 (1') (880-29157-24), CS-25 (1') (880-29157-25), CS-26 (1') (880-29157-26), CS-27 (4.5') (880-29157-27), CS-28 (4.5') (880-29157-28), CS-29 (4.5') (880-29157-29), CS-30 (4.5') (880-29157-30), CS-31 (4.5') (880-29157-31), CS-32 (4.5') (880-29157-32), CS-33 (4.5') (880-29157-33), CS-34 (4.5') (880-29157-34), CS-35 (4.5') (880-29157-35), CS-36 (4.5') (880-29157-36), CS-37 (4.5') (880-29157-37), CS-38 (4.5') (880-29157-38), CS-39 (4.5') (880-29157-39), CS-40 (4.5') (880-29157-40), CS-41 (4.5') (880-29157-41), CS-42 (4.5') (880-29157-42), CS-43 (4.5') (880-29157-43), CS-44 (4.5') (880-29157-44), CS-45 (4.5') (880-29157-45), CS-46 (4.5') (880-29157-46), CS-47 (4.5') (880-29157-47), CS-48 (4.5') (880-29157-48), CS-49 (4.5') (880-29157-49), CS-50 (4.5') (880-29157-50), CS-51 (4.5') (880-29157-51), CS-52 (4.5') (880-29157-52), SW-1 (1') (880-29157-53), SW-2 (3.5') (880-29157-54) and SW-3 (3.5') (880-29157-55).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-54833 recovered above the upper control limit for Benzene. However an acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-54833/20).

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-54892 and analytical batch 880-54872 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-54872 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (1') (880-29157-1), CS-2 (1') (880-29157-2), CS-3 (1') (880-29157-3), CS-4 (1') (880-29157-4), CS-5 (1') (880-29157-5), CS-6 (1') (880-29157-6), (880-29157-A-1-A MS) and (880-29157-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-7 (1') (880-29157-7), CS-8 (1') (880-29157-8), CS-9 (1') (880-29157-9) and CS-10 (1') (880-29157-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54892 and analytical batch 880-54872 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-54756/5-A) and (MB 880-54895/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-54895 and analytical batch 880-54833 recovered outside control limits for the following analytes: Benzene. Since only an acceptable LCS or LCSD is required per the method, the LCSD shows recovery for the batch; therefore, the data have been reported.

Case Narrative

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Job ID: 880-29157-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-11 (1') (880-29157-11), CS-12 (1') (880-29157-12), CS-13 (1') (880-29157-13), CS-14 (1') (880-29157-14), CS-15 (1') (880-29157-15), CS-16 (1') (880-29157-16), CS-17 (1') (880-29157-17), CS-18 (1') (880-29157-18), CS-19 (1') (880-29157-19) and CS-20 (1') (880-29157-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-54872/51). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54897 and 880-54899 and analytical batch 880-54829 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-54897/2-A), (LCS 880-54899/2-A) and (LCSD 880-54899/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (1') (880-29157-1), CS-2 (1') (880-29157-2), CS-3 (1') (880-29157-3), CS-4 (1') (880-29157-4), CS-5 (1') (880-29157-5), CS-6 (1') (880-29157-6), CS-7 (1') (880-29157-7), CS-8 (1') (880-29157-8), CS-9 (1') (880-29157-9), CS-10 (1') (880-29157-10), (880-29157-A-1-H MS) and (880-29157-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-11 (1') (880-29157-11), CS-12 (1') (880-29157-12), CS-13 (1') (880-29157-13), CS-14 (1') (880-29157-14), CS-15 (1') (880-29157-15), CS-16 (1') (880-29157-16), CS-17 (1') (880-29157-17), CS-18 (1') (880-29157-18), CS-19 (1') (880-29157-19), CS-20 (1') (880-29157-20), CS-41 (4.5') (880-29157-41), CS-42 (4.5') (880-29157-42), CS-43 (4.5') (880-29157-43), CS-44 (4.5') (880-29157-44), CS-45 (4.5') (880-29157-45), (880-29157-A-41-C MS) and (880-29157-A-41-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-54898 and analytical batch 880-54831 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-21 (1') (880-29157-21), CS-22 (1') (880-29157-22), CS-23 (1') (880-29157-23), CS-24 (1') (880-29157-24), CS-25 (1') (880-29157-25), CS-26 (1') (880-29157-26), (880-29157-A-21-H MS) and (880-29157-A-21-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-29 (4.5') (880-29157-29), CS-30 (4.5') (880-29157-30), CS-31 (4.5') (880-29157-31) and CS-32 (4.5') (880-29157-32). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-34 (4.5') (880-29157-34), CS-35 (4.5') (880-29157-35), CS-36 (4.5') (880-29157-36), CS-37 (4.5') (880-29157-37), CS-38 (4.5') (880-29157-38), CS-39 (4.5') (880-29157-39) and CS-40 (4.5') (880-29157-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-46 (4.5') (880-29157-46), CS-47 (4.5') (880-29157-47), CS-48 (4.5') (880-29157-48), CS-49 (4.5') (880-29157-49), CS-50 (4.5') (880-29157-50), CS-51 (4.5') (880-29157-51), CS-52 (4.5') (880-29157-52), SW-1 (1') (880-29157-53), SW-2 (3.5') (880-29157-54) and SW-3 (3.5') (880-29157-55). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Job ID: 880-29157-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54894 and analytical batch 880-54913 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54893 and analytical batch 880-54914 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54891 and analytical batch 880-54915 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (1')

Lab Sample ID: 880-29157-1

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+ F1	0.00200		mg/Kg		06/06/23 15:18	06/07/23 04:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 04:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 04:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/06/23 15:18	06/07/23 04:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 04:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/06/23 15:18	06/07/23 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	06/06/23 15:18	06/07/23 04:40	1
1,4-Difluorobenzene (Surr)	80		70 - 130	06/06/23 15:18	06/07/23 04:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.3		49.9		mg/Kg			06/07/23 09:22	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		06/06/23 15:33	06/06/23 16:33	1
Diesel Range Organics (Over C10-C28)	76.3		49.9		mg/Kg		06/06/23 15:33	06/06/23 16:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	06/06/23 15:33	06/06/23 16:33	1
o-Terphenyl	114		70 - 130	06/06/23 15:33	06/06/23 16:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	549	F1	4.99		mg/Kg			06/06/23 22:55	1

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-29157-2

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:18	06/07/23 05:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 05:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 05:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/06/23 15:18	06/07/23 05:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 05:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/06/23 15:18	06/07/23 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130	06/06/23 15:18	06/07/23 05:06	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/06/23 15:18	06/07/23 05:06	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-29157-2

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/07/23 10:05	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			06/07/23 09:22	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		06/06/23 15:33	06/06/23 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 17:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130				06/06/23 15:33	06/06/23 17:37	1
o-Terphenyl	116		70 - 130				06/06/23 15:33	06/06/23 17:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	643		5.00		mg/Kg			06/06/23 23:11	1

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-29157-3

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:18	06/07/23 05:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 05:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 05:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/23 15:18	06/07/23 05:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 05:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/23 15:18	06/07/23 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130				06/06/23 15:18	06/07/23 05:32	1
1,4-Difluorobenzene (Surr)	94		70 - 130				06/06/23 15:18	06/07/23 05:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 17:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 17:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-29157-3

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				06/06/23 15:33	06/06/23 17:59	1
o-Terphenyl	112		70 - 130				06/06/23 15:33	06/06/23 17:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	688		4.99		mg/Kg			06/06/23 23:17	1

Client Sample ID: CS-4 (1')

Lab Sample ID: 880-29157-4

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:18	06/07/23 05:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 05:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 05:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/23 15:18	06/07/23 05:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 05:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/23 15:18	06/07/23 05:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				06/06/23 15:18	06/07/23 05:58	1
1,4-Difluorobenzene (Surr)	90		70 - 130				06/06/23 15:18	06/07/23 05:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 18:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 18:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				06/06/23 15:33	06/06/23 18:21	1
o-Terphenyl	115		70 - 130				06/06/23 15:33	06/06/23 18:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	566		4.95		mg/Kg			06/06/23 23:22	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-5 (1')

Lab Sample ID: 880-29157-5

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		06/06/23 15:18	06/07/23 06:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 06:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 06:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/06/23 15:18	06/07/23 06:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 06:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/06/23 15:18	06/07/23 06:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	06/06/23 15:18	06/07/23 06:25	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/06/23 15:18	06/07/23 06:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 18:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 18:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	06/06/23 15:33	06/06/23 18:43	1
o-Terphenyl	112		70 - 130	06/06/23 15:33	06/06/23 18:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	225		4.98		mg/Kg			06/06/23 23:27	1

Client Sample ID: CS-6 (1')

Lab Sample ID: 880-29157-6

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/06/23 15:18	06/07/23 06:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 06:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 06:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/06/23 15:18	06/07/23 06:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 06:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/06/23 15:18	06/07/23 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	06/06/23 15:18	06/07/23 06:51	1
1,4-Difluorobenzene (Surr)	77		70 - 130	06/06/23 15:18	06/07/23 06:51	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-6 (1')

Lab Sample ID: 880-29157-6

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 19:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 19:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				06/06/23 15:33	06/06/23 19:04	1
o-Terphenyl	108		70 - 130				06/06/23 15:33	06/06/23 19:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	295		4.95		mg/Kg			06/06/23 23:43	1

Client Sample ID: CS-7 (1')

Lab Sample ID: 880-29157-7

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:18	06/07/23 07:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 07:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 07:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/06/23 15:18	06/07/23 07:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 07:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/06/23 15:18	06/07/23 07:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				06/06/23 15:18	06/07/23 07:18	1
1,4-Difluorobenzene (Surr)	92		70 - 130				06/06/23 15:18	06/07/23 07:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/07/23 10:05	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			06/07/23 09:22	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		06/06/23 15:33	06/06/23 19:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 19:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (1')

Lab Sample ID: 880-29157-7

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				06/06/23 15:33	06/06/23 19:26	1
o-Terphenyl	117		70 - 130				06/06/23 15:33	06/06/23 19:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	444		5.01		mg/Kg			06/06/23 23:49	1

Client Sample ID: CS-8 (1')

Lab Sample ID: 880-29157-8

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:18	06/07/23 07:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 07:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 07:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/06/23 15:18	06/07/23 07:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 07:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/06/23 15:18	06/07/23 07:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				06/06/23 15:18	06/07/23 07:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130				06/06/23 15:18	06/07/23 07:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/07/23 10:05	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			06/07/23 09:22	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		06/06/23 15:33	06/06/23 19:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 19:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				06/06/23 15:33	06/06/23 19:49	1
o-Terphenyl	117		70 - 130				06/06/23 15:33	06/06/23 19:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	329		5.00		mg/Kg			06/06/23 23:54	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-9 (1')

Lab Sample ID: 880-29157-9

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/06/23 15:18	06/07/23 08:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 08:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 08:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/06/23 15:18	06/07/23 08:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 08:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/06/23 15:18	06/07/23 08:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	06/06/23 15:18	06/07/23 08:10	1
1,4-Difluorobenzene (Surr)	84		70 - 130	06/06/23 15:18	06/07/23 08:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 20:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 20:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	06/06/23 15:33	06/06/23 20:11	1
o-Terphenyl	117		70 - 130	06/06/23 15:33	06/06/23 20:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	887		4.98		mg/Kg			06/06/23 23:59	1

Client Sample ID: CS-10 (1')

Lab Sample ID: 880-29157-10

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		06/06/23 15:18	06/07/23 08:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 08:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 08:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/06/23 15:18	06/07/23 08:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 08:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/06/23 15:18	06/07/23 08:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	06/06/23 15:18	06/07/23 08:36	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/06/23 15:18	06/07/23 08:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-10 (1')

Lab Sample ID: 880-29157-10

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	102		49.9		mg/Kg			06/07/23 09:22	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		06/06/23 15:33	06/06/23 20:32	1
Diesel Range Organics (Over C10-C28)	102		49.9		mg/Kg		06/06/23 15:33	06/06/23 20:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130				06/06/23 15:33	06/06/23 20:32	1
o-Terphenyl	120		70 - 130				06/06/23 15:33	06/06/23 20:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	588		5.02		mg/Kg			06/07/23 00:05	1

Client Sample ID: CS-11 (1')

Lab Sample ID: 880-29157-11

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:18	06/07/23 10:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 10:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 10:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/06/23 15:18	06/07/23 10:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 10:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/06/23 15:18	06/07/23 10:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				06/06/23 15:18	06/07/23 10:19	1
1,4-Difluorobenzene (Surr)	75		70 - 130				06/06/23 15:18	06/07/23 10:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 21:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 21:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-11 (1')

Lab Sample ID: 880-29157-11

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				06/06/23 15:33	06/06/23 21:17	1
o-Terphenyl	117		70 - 130				06/06/23 15:33	06/06/23 21:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		4.99		mg/Kg			06/07/23 00:10	1

Client Sample ID: CS-12 (1')

Lab Sample ID: 880-29157-12

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:18	06/07/23 10:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 10:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 10:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/23 15:18	06/07/23 10:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 10:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/23 15:18	06/07/23 10:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				06/06/23 15:18	06/07/23 10:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130				06/06/23 15:18	06/07/23 10:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/07/23 09:22	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		06/06/23 15:33	06/06/23 21:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 21:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				06/06/23 15:33	06/06/23 21:38	1
o-Terphenyl	117		70 - 130				06/06/23 15:33	06/06/23 21:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	838		5.02		mg/Kg			06/07/23 00:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-13 (1')

Lab Sample ID: 880-29157-13

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		06/06/23 15:18	06/07/23 11:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 11:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 11:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/06/23 15:18	06/07/23 11:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 11:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/06/23 15:18	06/07/23 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	06/06/23 15:18	06/07/23 11:11	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/06/23 15:18	06/07/23 11:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 22:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 22:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130	06/06/23 15:33	06/06/23 22:00	1
o-Terphenyl	116		70 - 130	06/06/23 15:33	06/06/23 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	511		4.95		mg/Kg			06/07/23 00:31	1

Client Sample ID: CS-14 (1')

Lab Sample ID: 880-29157-14

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/06/23 15:18	06/07/23 11:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 11:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 11:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/06/23 15:18	06/07/23 11:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:18	06/07/23 11:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/06/23 15:18	06/07/23 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	06/06/23 15:18	06/07/23 11:36	1
1,4-Difluorobenzene (Surr)	28	S1-	70 - 130	06/06/23 15:18	06/07/23 11:36	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-14 (1')

Lab Sample ID: 880-29157-14

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/07/23 09:22	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		06/06/23 15:33	06/06/23 22:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 22:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				06/06/23 15:33	06/06/23 22:22	1
o-Terphenyl	120		70 - 130				06/06/23 15:33	06/06/23 22:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		5.03		mg/Kg			06/07/23 00:47	1

Client Sample ID: CS-15 (1')

Lab Sample ID: 880-29157-15

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:18	06/07/23 12:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 12:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 12:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/06/23 15:18	06/07/23 12:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 12:02	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/06/23 15:18	06/07/23 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				06/06/23 15:18	06/07/23 12:02	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/06/23 15:18	06/07/23 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.2		49.9		mg/Kg			06/07/23 09:22	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		06/06/23 15:33	06/06/23 22:43	1
Diesel Range Organics (Over C10-C28)	58.2		49.9		mg/Kg		06/06/23 15:33	06/06/23 22:43	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-15 (1')

Lab Sample ID: 880-29157-15

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/06/23 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				06/06/23 15:33	06/06/23 22:43	1
o-Terphenyl	116		70 - 130				06/06/23 15:33	06/06/23 22:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		4.97		mg/Kg			06/07/23 00:53	1

Client Sample ID: CS-16 (1')

Lab Sample ID: 880-29157-16

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		06/06/23 15:18	06/07/23 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 12:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/06/23 15:18	06/07/23 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 12:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/06/23 15:18	06/07/23 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				06/06/23 15:18	06/07/23 12:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130				06/06/23 15:18	06/07/23 12:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	105		49.8		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 23:05	1
Diesel Range Organics (Over C10-C28)	105		49.8		mg/Kg		06/06/23 15:33	06/06/23 23:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:33	06/06/23 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				06/06/23 15:33	06/06/23 23:05	1
o-Terphenyl	114		70 - 130				06/06/23 15:33	06/06/23 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		4.98		mg/Kg			06/07/23 00:58	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-17 (1')

Lab Sample ID: 880-29157-17

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:18	06/07/23 12:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 12:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 12:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/06/23 15:18	06/07/23 12:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 12:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/06/23 15:18	06/07/23 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	06/06/23 15:18	06/07/23 12:55	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/06/23 15:18	06/07/23 12:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	441		50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 23:27	1
Diesel Range Organics (Over C10-C28)	441		50.0		mg/Kg		06/06/23 15:33	06/06/23 23:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130	06/06/23 15:33	06/06/23 23:27	1
o-Terphenyl	117		70 - 130	06/06/23 15:33	06/06/23 23:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	361		5.04		mg/Kg			06/07/23 01:04	1

Client Sample ID: CS-18 (1')

Lab Sample ID: 880-29157-18

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:18	06/07/23 13:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 13:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 13:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/23 15:18	06/07/23 13:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:18	06/07/23 13:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/23 15:18	06/07/23 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	06/06/23 15:18	06/07/23 13:21	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/06/23 15:18	06/07/23 13:21	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-18 (1')

Lab Sample ID: 880-29157-18

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	319		50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 23:48	1
Diesel Range Organics (Over C10-C28)	319		50.0		mg/Kg		06/06/23 15:33	06/06/23 23:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/06/23 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				06/06/23 15:33	06/06/23 23:48	1
o-Terphenyl	118		70 - 130				06/06/23 15:33	06/06/23 23:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	537		5.02		mg/Kg			06/07/23 01:09	1

Client Sample ID: CS-19 (1')

Lab Sample ID: 880-29157-19

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:18	06/07/23 13:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 13:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 13:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/06/23 15:18	06/07/23 13:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:18	06/07/23 13:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/06/23 15:18	06/07/23 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				06/06/23 15:18	06/07/23 13:46	1
1,4-Difluorobenzene (Surr)	83		70 - 130				06/06/23 15:18	06/07/23 13:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	275		49.9		mg/Kg			06/07/23 09:22	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		06/06/23 15:33	06/07/23 00:10	1
Diesel Range Organics (Over C10-C28)	275		49.9		mg/Kg		06/06/23 15:33	06/07/23 00:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-19 (1')

Lab Sample ID: 880-29157-19

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:33	06/07/23 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				06/06/23 15:33	06/07/23 00:10	1
o-Terphenyl	113		70 - 130				06/06/23 15:33	06/07/23 00:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		5.02		mg/Kg			06/07/23 01:14	1

Client Sample ID: CS-20 (1')

Lab Sample ID: 880-29157-20

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *	0.00201		mg/Kg		06/06/23 15:18	06/07/23 14:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 14:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 14:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/06/23 15:18	06/07/23 14:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:18	06/07/23 14:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/06/23 15:18	06/07/23 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				06/06/23 15:18	06/07/23 14:12	1
1,4-Difluorobenzene (Surr)	83		70 - 130				06/06/23 15:18	06/07/23 14:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/07/23 00:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/07/23 00:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:33	06/07/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				06/06/23 15:33	06/07/23 00:32	1
o-Terphenyl	114		70 - 130				06/06/23 15:33	06/07/23 00:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		4.99		mg/Kg			06/07/23 01:20	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-21 (1')

Lab Sample ID: 880-29157-21

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:26	06/06/23 23:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/06/23 23:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/06/23 23:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/06/23 15:26	06/06/23 23:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/06/23 23:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/06/23 15:26	06/06/23 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	06/06/23 15:26	06/06/23 23:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/06/23 15:26	06/06/23 23:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.1		50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 16:33	1
Diesel Range Organics (Over C10-C28)	52.1		50.0		mg/Kg		06/06/23 15:35	06/06/23 16:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	06/06/23 15:35	06/06/23 16:33	1
o-Terphenyl	152	S1+	70 - 130	06/06/23 15:35	06/06/23 16:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191	F1	4.96		mg/Kg			06/06/23 19:49	1

Client Sample ID: CS-22 (1')

Lab Sample ID: 880-29157-22

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/06/23 15:26	06/06/23 23:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/06/23 23:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/06/23 23:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/06/23 15:26	06/06/23 23:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/06/23 23:26	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/06/23 15:26	06/06/23 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	06/06/23 15:26	06/06/23 23:26	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/06/23 15:26	06/06/23 23:26	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-22 (1')

Lab Sample ID: 880-29157-22

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/07/23 17:15	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			06/07/23 09:29	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		06/06/23 15:35	06/06/23 17:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 17:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				06/06/23 15:35	06/06/23 17:37	1
o-Terphenyl	146	S1+	70 - 130				06/06/23 15:35	06/06/23 17:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	196		4.99		mg/Kg			06/06/23 20:05	1

Client Sample ID: CS-23 (1')

Lab Sample ID: 880-29157-23

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:26	06/06/23 23:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/06/23 23:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/06/23 23:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/23 15:26	06/06/23 23:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/06/23 23:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/23 15:26	06/06/23 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				06/06/23 15:26	06/06/23 23:47	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/06/23 15:26	06/06/23 23:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 17:15	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			06/07/23 09:29	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		06/06/23 15:35	06/06/23 17:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 17:59	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-23 (1')

Lab Sample ID: 880-29157-23

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				06/06/23 15:35	06/06/23 17:59	1
o-Terphenyl	141	S1+	70 - 130				06/06/23 15:35	06/06/23 17:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		5.02		mg/Kg			06/06/23 20:10	1

Client Sample ID: CS-24 (1')

Lab Sample ID: 880-29157-24

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:26	06/07/23 00:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 00:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 00:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/06/23 15:26	06/07/23 00:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 00:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/06/23 15:26	06/07/23 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130				06/06/23 15:26	06/07/23 00:07	1
1,4-Difluorobenzene (Surr)	88		70 - 130				06/06/23 15:26	06/07/23 00:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 18:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 18:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				06/06/23 15:35	06/06/23 18:21	1
o-Terphenyl	141	S1+	70 - 130				06/06/23 15:35	06/06/23 18:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		5.03		mg/Kg			06/06/23 20:15	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-25 (1')

Lab Sample ID: 880-29157-25

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		06/06/23 15:26	06/07/23 00:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:26	06/07/23 00:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:26	06/07/23 00:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/06/23 15:26	06/07/23 00:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:26	06/07/23 00:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/06/23 15:26	06/07/23 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	06/06/23 15:26	06/07/23 00:28	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/06/23 15:26	06/07/23 00:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 17:15	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			06/07/23 09:29	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		06/06/23 15:35	06/06/23 18:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 18:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	06/06/23 15:35	06/06/23 18:43	1
o-Terphenyl	138	S1+	70 - 130	06/06/23 15:35	06/06/23 18:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.98		mg/Kg			06/06/23 20:21	1

Client Sample ID: CS-26 (1')

Lab Sample ID: 880-29157-26

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:26	06/07/23 00:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 00:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 00:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/06/23 15:26	06/07/23 00:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 00:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/06/23 15:26	06/07/23 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	06/06/23 15:26	06/07/23 00:48	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/06/23 15:26	06/07/23 00:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-26 (1')

Lab Sample ID: 880-29157-26

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 19:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 19:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				06/06/23 15:35	06/06/23 19:04	1
o-Terphenyl	157	S1+	70 - 130				06/06/23 15:35	06/06/23 19:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		4.99		mg/Kg			06/06/23 20:37	1

Client Sample ID: CS-27 (4.5')

Lab Sample ID: 880-29157-27

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:26	06/07/23 01:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/07/23 01:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/07/23 01:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/23 15:26	06/07/23 01:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/07/23 01:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/23 15:26	06/07/23 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				06/06/23 15:26	06/07/23 01:09	1
1,4-Difluorobenzene (Surr)	92		70 - 130				06/06/23 15:26	06/07/23 01:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 19:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 19:26	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-27 (4.5')

Lab Sample ID: 880-29157-27

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				06/06/23 15:35	06/06/23 19:26	1
o-Terphenyl	122		70 - 130				06/06/23 15:35	06/06/23 19:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		4.99		mg/Kg			06/06/23 20:42	1

Client Sample ID: CS-28 (4.5')

Lab Sample ID: 880-29157-28

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:26	06/07/23 01:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 01:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 01:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/06/23 15:26	06/07/23 01:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 01:29	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/06/23 15:26	06/07/23 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				06/06/23 15:26	06/07/23 01:29	1
1,4-Difluorobenzene (Surr)	91		70 - 130				06/06/23 15:26	06/07/23 01:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				06/06/23 15:35	06/06/23 19:49	1
o-Terphenyl	121		70 - 130				06/06/23 15:35	06/06/23 19:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.3		5.00		mg/Kg			06/06/23 20:47	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-29 (4.5')

Lab Sample ID: 880-29157-29

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/06/23 15:26	06/07/23 01:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/07/23 01:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/07/23 01:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/06/23 15:26	06/07/23 01:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/07/23 01:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/06/23 15:26	06/07/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				06/06/23 15:26	06/07/23 01:50	1
1,4-Difluorobenzene (Surr)	85		70 - 130				06/06/23 15:26	06/07/23 01:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/07/23 17:15	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			06/07/23 09:29	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		06/06/23 15:35	06/06/23 20:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 20:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 20:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				06/06/23 15:35	06/06/23 20:11	1
o-Terphenyl	143	S1+	70 - 130				06/06/23 15:35	06/06/23 20:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3780		50.1		mg/Kg			06/06/23 20:53	10

Client Sample ID: CS-30 (4.5')

Lab Sample ID: 880-29157-30

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:26	06/07/23 02:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 02:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 02:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/06/23 15:26	06/07/23 02:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 02:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/06/23 15:26	06/07/23 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130				06/06/23 15:26	06/07/23 02:11	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/06/23 15:26	06/07/23 02:11	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-30 (4.5')

Lab Sample ID: 880-29157-30

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	369		49.9		mg/Kg			06/07/23 09:29	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		06/06/23 15:35	06/06/23 20:32	1
Diesel Range Organics (Over C10-C28)	303		49.9		mg/Kg		06/06/23 15:35	06/06/23 20:32	1
Oil Range Organics (Over C28-C36)	66.2		49.9		mg/Kg		06/06/23 15:35	06/06/23 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				06/06/23 15:35	06/06/23 20:32	1
o-Terphenyl	138	S1+	70 - 130				06/06/23 15:35	06/06/23 20:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3550		50.4		mg/Kg			06/06/23 20:58	10

Client Sample ID: CS-31 (4.5')

Lab Sample ID: 880-29157-31

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:26	06/07/23 03:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 03:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 03:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/06/23 15:26	06/07/23 03:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 03:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/06/23 15:26	06/07/23 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				06/06/23 15:26	06/07/23 03:34	1
1,4-Difluorobenzene (Surr)	89		70 - 130				06/06/23 15:26	06/07/23 03:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 21:17	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-31 (4.5')

Lab Sample ID: 880-29157-31

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 21:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				06/06/23 15:35	06/06/23 21:17	1
o-Terphenyl	150	S1+	70 - 130				06/06/23 15:35	06/06/23 21:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	849		24.9		mg/Kg			06/06/23 21:03	5

Client Sample ID: CS-32 (4.5')

Lab Sample ID: 880-29157-32

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:26	06/07/23 03:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 03:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 03:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/06/23 15:26	06/07/23 03:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 03:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/06/23 15:26	06/07/23 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				06/06/23 15:26	06/07/23 03:54	1
1,4-Difluorobenzene (Surr)	93		70 - 130				06/06/23 15:26	06/07/23 03:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 21:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 21:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				06/06/23 15:35	06/06/23 21:38	1
o-Terphenyl	134	S1+	70 - 130				06/06/23 15:35	06/06/23 21:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		5.02		mg/Kg			06/06/23 21:19	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-33 (4.5')

Lab Sample ID: 880-29157-33

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:26	06/07/23 04:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 04:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 04:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/06/23 15:26	06/07/23 04:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 04:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/06/23 15:26	06/07/23 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				06/06/23 15:26	06/07/23 04:15	1
1,4-Difluorobenzene (Surr)	85		70 - 130				06/06/23 15:26	06/07/23 04:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 22:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 22:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				06/06/23 15:35	06/06/23 22:00	1
o-Terphenyl	129		70 - 130				06/06/23 15:35	06/06/23 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		4.95		mg/Kg			06/06/23 21:25	1

Client Sample ID: CS-34 (4.5')

Lab Sample ID: 880-29157-34

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:26	06/07/23 04:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 04:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 04:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/06/23 15:26	06/07/23 04:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 04:35	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/06/23 15:26	06/07/23 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				06/06/23 15:26	06/07/23 04:35	1
1,4-Difluorobenzene (Surr)	87		70 - 130				06/06/23 15:26	06/07/23 04:35	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-34 (4.5')

Lab Sample ID: 880-29157-34

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.0		49.9		mg/Kg			06/07/23 09:29	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		06/06/23 15:35	06/06/23 22:22	1
Diesel Range Organics (Over C10-C28)	62.0		49.9		mg/Kg		06/06/23 15:35	06/06/23 22:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				06/06/23 15:35	06/06/23 22:22	1
o-Terphenyl	152	S1+	70 - 130				06/06/23 15:35	06/06/23 22:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1760		25.1		mg/Kg			06/06/23 21:41	5

Client Sample ID: CS-35 (4.5')

Lab Sample ID: 880-29157-35

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/06/23 15:26	06/07/23 04:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 04:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 04:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/06/23 15:26	06/07/23 04:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 04:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/06/23 15:26	06/07/23 04:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				06/06/23 15:26	06/07/23 04:56	1
1,4-Difluorobenzene (Surr)	94		70 - 130				06/06/23 15:26	06/07/23 04:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 22:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 22:43	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-35 (4.5')

Lab Sample ID: 880-29157-35

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				06/06/23 15:35	06/06/23 22:43	1
o-Terphenyl	149	S1+	70 - 130				06/06/23 15:35	06/06/23 22:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	507		25.0		mg/Kg			06/06/23 21:46	5

Client Sample ID: CS-36 (4.5')

Lab Sample ID: 880-29157-36

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		06/06/23 15:26	06/07/23 05:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 05:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 05:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/06/23 15:26	06/07/23 05:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/07/23 05:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/06/23 15:26	06/07/23 05:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				06/06/23 15:26	06/07/23 05:16	1
1,4-Difluorobenzene (Surr)	82		70 - 130				06/06/23 15:26	06/07/23 05:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 23:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 23:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/06/23 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				06/06/23 15:35	06/06/23 23:05	1
o-Terphenyl	140	S1+	70 - 130				06/06/23 15:35	06/06/23 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	461		25.2		mg/Kg			06/06/23 21:51	5

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-37 (4.5')

Lab Sample ID: 880-29157-37

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:26	06/07/23 05:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 05:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 05:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/06/23 15:26	06/07/23 05:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/06/23 15:26	06/07/23 05:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/06/23 15:26	06/07/23 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	06/06/23 15:26	06/07/23 05:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/06/23 15:26	06/07/23 05:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	369		49.8		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:35	06/06/23 23:27	1
Diesel Range Organics (Over C10-C28)	284		49.8		mg/Kg		06/06/23 15:35	06/06/23 23:27	1
Oil Range Organics (Over C28-C36)	85.4		49.8		mg/Kg		06/06/23 15:35	06/06/23 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	06/06/23 15:35	06/06/23 23:27	1
o-Terphenyl	139	S1+	70 - 130	06/06/23 15:35	06/06/23 23:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	538		25.2		mg/Kg			06/06/23 21:57	5

Client Sample ID: CS-38 (4.5')

Lab Sample ID: 880-29157-38

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		06/06/23 15:26	06/07/23 05:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:26	06/07/23 05:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:26	06/07/23 05:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/06/23 15:26	06/07/23 05:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/06/23 15:26	06/07/23 05:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/06/23 15:26	06/07/23 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	06/06/23 15:26	06/07/23 05:57	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/06/23 15:26	06/07/23 05:57	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-38 (4.5')

Lab Sample ID: 880-29157-38

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 17:15	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			06/07/23 09:29	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		06/06/23 15:35	06/06/23 23:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 23:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:35	06/06/23 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				06/06/23 15:35	06/06/23 23:48	1
o-Terphenyl	154	S1+	70 - 130				06/06/23 15:35	06/06/23 23:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		4.97		mg/Kg			06/06/23 22:02	1

Client Sample ID: CS-39 (4.5')

Lab Sample ID: 880-29157-39

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/06/23 15:26	06/07/23 06:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/07/23 06:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/07/23 06:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/06/23 15:26	06/07/23 06:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/06/23 15:26	06/07/23 06:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/06/23 15:26	06/07/23 06:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				06/06/23 15:26	06/07/23 06:18	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/06/23 15:26	06/07/23 06:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/07/23 00:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/07/23 00:10	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-39 (4.5')

Lab Sample ID: 880-29157-39

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/07/23 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				06/06/23 15:35	06/07/23 00:10	1
o-Terphenyl	133	S1+	70 - 130				06/06/23 15:35	06/07/23 00:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		4.96		mg/Kg			06/06/23 22:07	1

Client Sample ID: CS-40 (4.5')

Lab Sample ID: 880-29157-40

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/06/23 15:26	06/07/23 06:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/07/23 06:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/07/23 06:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/06/23 15:26	06/07/23 06:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/06/23 15:26	06/07/23 06:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/06/23 15:26	06/07/23 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				06/06/23 15:26	06/07/23 06:38	1
1,4-Difluorobenzene (Surr)	91		70 - 130				06/06/23 15:26	06/07/23 06:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/07/23 00:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/07/23 00:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:35	06/07/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				06/06/23 15:35	06/07/23 00:32	1
o-Terphenyl	137	S1+	70 - 130				06/06/23 15:35	06/07/23 00:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	653		5.05		mg/Kg			06/06/23 22:13	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-41 (4.5')

Lab Sample ID: 880-29157-41

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 13:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 13:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 13:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/07/23 09:05	06/07/23 13:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 13:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/07/23 09:05	06/07/23 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	06/07/23 09:05	06/07/23 13:14	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/07/23 09:05	06/07/23 13:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/08/23 09:57	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			06/07/23 09:22	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		06/06/23 15:37	06/07/23 03:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 03:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130	06/06/23 15:37	06/07/23 03:04	1
o-Terphenyl	121		70 - 130	06/06/23 15:37	06/07/23 03:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		25.3		mg/Kg			06/06/23 21:44	5

Client Sample ID: CS-42 (4.5')

Lab Sample ID: 880-29157-42

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 13:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 13:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 13:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/07/23 09:05	06/07/23 13:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 13:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/07/23 09:05	06/07/23 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	06/07/23 09:05	06/07/23 13:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/07/23 09:05	06/07/23 13:34	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-42 (4.5')

Lab Sample ID: 880-29157-42

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:37	06/07/23 04:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/06/23 15:37	06/07/23 04:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:37	06/07/23 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				06/06/23 15:37	06/07/23 04:09	1
o-Terphenyl	115		70 - 130				06/06/23 15:37	06/07/23 04:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		5.03		mg/Kg			06/06/23 22:00	1

Client Sample ID: CS-43 (4.5')

Lab Sample ID: 880-29157-43

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/07/23 09:05	06/07/23 13:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 13:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 13:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/07/23 09:05	06/07/23 13:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 13:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/07/23 09:05	06/07/23 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				06/07/23 09:05	06/07/23 13:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/07/23 09:05	06/07/23 13:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:32	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-43 (4.5')

Lab Sample ID: 880-29157-43

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				06/06/23 15:37	06/07/23 04:32	1
o-Terphenyl	118		70 - 130				06/06/23 15:37	06/07/23 04:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.4		4.99		mg/Kg			06/06/23 22:06	1

Client Sample ID: CS-44 (4.5')

Lab Sample ID: 880-29157-44

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/07/23 09:05	06/07/23 14:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/07/23 09:05	06/07/23 14:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/07/23 09:05	06/07/23 14:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/07/23 09:05	06/07/23 14:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/07/23 09:05	06/07/23 14:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/07/23 09:05	06/07/23 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				06/07/23 09:05	06/07/23 14:15	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/07/23 09:05	06/07/23 14:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	375		49.8		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:37	06/07/23 05:15	1
Diesel Range Organics (Over C10-C28)	375		49.8		mg/Kg		06/06/23 15:37	06/07/23 05:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/06/23 15:37	06/07/23 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130				06/06/23 15:37	06/07/23 05:15	1
o-Terphenyl	121		70 - 130				06/06/23 15:37	06/07/23 05:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	631		4.96		mg/Kg			06/06/23 22:11	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-45 (4.5')

Lab Sample ID: 880-29157-45

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/07/23 09:05	06/07/23 14:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 14:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 14:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/07/23 09:05	06/07/23 14:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 14:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/07/23 09:05	06/07/23 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	06/07/23 09:05	06/07/23 14:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/07/23 09:05	06/07/23 14:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	06/06/23 15:37	06/07/23 04:53	1
o-Terphenyl	121		70 - 130	06/06/23 15:37	06/07/23 04:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		4.95		mg/Kg			06/06/23 22:17	1

Client Sample ID: CS-46 (4.5')

Lab Sample ID: 880-29157-46

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 14:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 14:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 14:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/07/23 09:05	06/07/23 14:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 14:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/07/23 09:05	06/07/23 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	06/07/23 09:05	06/07/23 14:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/07/23 09:05	06/07/23 14:56	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-46 (4.5')

Lab Sample ID: 880-29157-46

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 01:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 01:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	12	S1-	70 - 130				06/06/23 15:37	06/07/23 01:12	1
o-Terphenyl	12	S1-	70 - 130				06/06/23 15:37	06/07/23 01:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	215		4.98		mg/Kg			06/06/23 22:22	1

Client Sample ID: CS-47 (4.5')

Lab Sample ID: 880-29157-47

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 15:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 15:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 15:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/07/23 09:05	06/07/23 15:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 15:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/07/23 09:05	06/07/23 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				06/07/23 09:05	06/07/23 15:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/07/23 09:05	06/07/23 15:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.0		49.9		mg/Kg			06/07/23 09:29	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		06/06/23 15:37	06/07/23 02:21	1
Diesel Range Organics (Over C10-C28)	63.0		49.9		mg/Kg		06/06/23 15:37	06/07/23 02:21	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-47 (4.5')

Lab Sample ID: 880-29157-47

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 02:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				06/06/23 15:37	06/07/23 02:21	1
o-Terphenyl	153	S1+	70 - 130				06/06/23 15:37	06/07/23 02:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		25.1		mg/Kg			06/06/23 22:28	5

Client Sample ID: CS-48 (4.5')

Lab Sample ID: 880-29157-48

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 15:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 15:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 15:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/07/23 09:05	06/07/23 15:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 15:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/07/23 09:05	06/07/23 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				06/07/23 09:05	06/07/23 15:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/07/23 09:05	06/07/23 15:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 02:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 02:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				06/06/23 15:37	06/07/23 02:43	1
o-Terphenyl	151	S1+	70 - 130				06/06/23 15:37	06/07/23 02:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		25.2		mg/Kg			06/06/23 22:33	5

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-49 (4.5')

Lab Sample ID: 880-29157-49

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 15:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 15:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 15:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/07/23 09:05	06/07/23 15:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 15:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/07/23 09:05	06/07/23 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				06/07/23 09:05	06/07/23 15:57	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/07/23 09:05	06/07/23 15:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/08/23 09:57	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			06/07/23 09:29	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		06/06/23 15:37	06/07/23 03:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 03:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				06/06/23 15:37	06/07/23 03:04	1
o-Terphenyl	135	S1+	70 - 130				06/06/23 15:37	06/07/23 03:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.8		5.04		mg/Kg			06/06/23 23:17	1

Client Sample ID: CS-50 (4.5')

Lab Sample ID: 880-29157-50

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/07/23 09:05	06/07/23 16:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 16:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 16:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/07/23 09:05	06/07/23 16:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 16:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/07/23 09:05	06/07/23 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				06/07/23 09:05	06/07/23 16:18	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/07/23 09:05	06/07/23 16:18	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-50 (4.5')

Lab Sample ID: 880-29157-50

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/08/23 09:57	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			06/07/23 09:29	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		06/06/23 15:37	06/07/23 03:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 03:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 03:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				06/06/23 15:37	06/07/23 03:26	1
o-Terphenyl	148	S1+	70 - 130				06/06/23 15:37	06/07/23 03:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.0		4.99		mg/Kg			06/06/23 23:34	1

Client Sample ID: CS-51 (4.5')

Lab Sample ID: 880-29157-51

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 18:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 18:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 18:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/07/23 09:05	06/07/23 18:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/07/23 09:05	06/07/23 18:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/07/23 09:05	06/07/23 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				06/07/23 09:05	06/07/23 18:09	1
1,4-Difluorobenzene (Surr)	89		70 - 130				06/07/23 09:05	06/07/23 18:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/08/23 09:57	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			06/07/23 09:29	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		06/06/23 15:37	06/07/23 03:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 03:48	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-51 (4.5')

Lab Sample ID: 880-29157-51

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				06/06/23 15:37	06/07/23 03:48	1
o-Terphenyl	146	S1+	70 - 130				06/06/23 15:37	06/07/23 03:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.99		mg/Kg			06/06/23 23:39	1

Client Sample ID: CS-52 (4.5')

Lab Sample ID: 880-29157-52

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 18:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 18:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 18:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/07/23 09:05	06/07/23 18:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 18:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/07/23 09:05	06/07/23 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				06/07/23 09:05	06/07/23 18:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/07/23 09:05	06/07/23 18:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				06/06/23 15:37	06/07/23 04:09	1
o-Terphenyl	154	S1+	70 - 130				06/06/23 15:37	06/07/23 04:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		25.1		mg/Kg			06/06/23 23:45	5

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-29157-53

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/07/23 09:05	06/07/23 18:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/07/23 09:05	06/07/23 18:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/07/23 09:05	06/07/23 18:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/07/23 09:05	06/07/23 18:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/07/23 09:05	06/07/23 18:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/07/23 09:05	06/07/23 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	06/07/23 09:05	06/07/23 18:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/07/23 09:05	06/07/23 18:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	330		49.8		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/06/23 15:37	06/07/23 04:32	1
Diesel Range Organics (Over C10-C28)	232		49.8		mg/Kg		06/06/23 15:37	06/07/23 04:32	1
Oil Range Organics (Over C28-C36)	97.7		49.8		mg/Kg		06/06/23 15:37	06/07/23 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	06/06/23 15:37	06/07/23 04:32	1
o-Terphenyl	138	S1+	70 - 130	06/06/23 15:37	06/07/23 04:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		5.04		mg/Kg			06/06/23 23:50	1

Client Sample ID: SW-2 (3.5')

Lab Sample ID: 880-29157-54

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 19:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 19:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 19:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/07/23 09:05	06/07/23 19:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 19:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/07/23 09:05	06/07/23 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/07/23 09:05	06/07/23 19:10	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/07/23 09:05	06/07/23 19:10	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (3.5')

Lab Sample ID: 880-29157-54

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/08/23 09:57	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			06/07/23 09:29	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		06/06/23 15:37	06/07/23 04:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 04:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/06/23 15:37	06/07/23 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				06/06/23 15:37	06/07/23 04:53	1
o-Terphenyl	141	S1+	70 - 130				06/06/23 15:37	06/07/23 04:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		5.05		mg/Kg			06/07/23 00:07	1

Client Sample ID: SW-3 (3.5')

Lab Sample ID: 880-29157-55

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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		06/07/23 09:05	06/07/23 19:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 19:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 19:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/07/23 09:05	06/07/23 19:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/07/23 09:05	06/07/23 19:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/07/23 09:05	06/07/23 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				06/07/23 09:05	06/07/23 19:31	1
1,4-Difluorobenzene (Surr)	129		70 - 130				06/07/23 09:05	06/07/23 19:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/08/23 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/07/23 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 05:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 05:15	1

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Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: SW-3 (3.5')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-55
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 05:15	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	129		70 - 130				06/06/23 15:37	06/07/23 05:15	1	
o-Terphenyl	151	S1+	70 - 130				06/06/23 15:37	06/07/23 05:15	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	202		5.05		mg/Kg			06/07/23 00:12	1	

Surrogate Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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)
880-29157-1	CS-1 (1')	139 S1+	80
880-29157-1 MS	CS-1 (1')	147 S1+	95
880-29157-1 MSD	CS-1 (1')	142 S1+	102
880-29157-2	CS-2 (1')	163 S1+	91
880-29157-3	CS-3 (1')	162 S1+	94
880-29157-4	CS-4 (1')	152 S1+	90
880-29157-5	CS-5 (1')	147 S1+	87
880-29157-6	CS-6 (1')	149 S1+	77
880-29157-7	CS-7 (1')	131 S1+	92
880-29157-8	CS-8 (1')	161 S1+	92
880-29157-9	CS-9 (1')	148 S1+	84
880-29157-10	CS-10 (1')	148 S1+	86
880-29157-11	CS-11 (1')	132 S1+	75
880-29157-12	CS-12 (1')	134 S1+	83
880-29157-13	CS-13 (1')	147 S1+	85
880-29157-14	CS-14 (1')	147 S1+	28 S1-
880-29157-15	CS-15 (1')	141 S1+	82
880-29157-16	CS-16 (1')	147 S1+	91
880-29157-17	CS-17 (1')	152 S1+	85
880-29157-18	CS-18 (1')	146 S1+	89
880-29157-19	CS-19 (1')	145 S1+	83
880-29157-20	CS-20 (1')	147 S1+	83
880-29157-21	CS-21 (1')	77	99
880-29157-21 MS	CS-21 (1')	103	111
880-29157-21 MSD	CS-21 (1')	83	119
880-29157-22	CS-22 (1')	76	95
880-29157-23	CS-23 (1')	78	96
880-29157-24	CS-24 (1')	74	88
880-29157-25	CS-25 (1')	84	94
880-29157-26	CS-26 (1')	91	87
880-29157-27	CS-27 (4.5')	78	92
880-29157-28	CS-28 (4.5')	78	91
880-29157-29	CS-29 (4.5')	81	85
880-29157-30	CS-30 (4.5')	84	95
880-29157-31	CS-31 (4.5')	77	89
880-29157-32	CS-32 (4.5')	82	93
880-29157-33	CS-33 (4.5')	88	85
880-29157-34	CS-34 (4.5')	90	87
880-29157-35	CS-35 (4.5')	85	94
880-29157-36	CS-36 (4.5')	94	82
880-29157-37	CS-37 (4.5')	77	99
880-29157-38	CS-38 (4.5')	76	100
880-29157-39	CS-39 (4.5')	79	96
880-29157-40	CS-40 (4.5')	77	91
880-29157-41	CS-41 (4.5')	89	97
880-29157-41 MS	CS-41 (4.5')	108	99
880-29157-41 MSD	CS-41 (4.5')	96	94
880-29157-42	CS-42 (4.5')	92	91
880-29157-43	CS-43 (4.5')	89	97

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-29157-1

Project/Site: Denton 5 SWD

SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-29157-44	CS-44 (4.5')	85	97
880-29157-45	CS-45 (4.5')	86	93
880-29157-46	CS-46 (4.5')	87	97
880-29157-47	CS-47 (4.5')	95	98
880-29157-48	CS-48 (4.5')	93	96
880-29157-49	CS-49 (4.5')	95	97
880-29157-50	CS-50 (4.5')	98	98
880-29157-51	CS-51 (4.5')	88	89
880-29157-52	CS-52 (4.5')	93	99
880-29157-53	SW-1 (1')	92	100
880-29157-54	SW-2 (3.5')	93	96
880-29157-55	SW-3 (3.5')	99	129
LCS 880-54892/1-A	Lab Control Sample	110	86
LCS 880-54895/1-A	Lab Control Sample	97	119
LCS 880-54945/1-A	Lab Control Sample	92	110
LCSD 880-54892/2-A	Lab Control Sample Dup	125	87
LCSD 880-54895/2-A	Lab Control Sample Dup	96	113
LCSD 880-54945/2-A	Lab Control Sample Dup	93	90
MB 880-54756/5-A	Method Blank	64 S1-	102
MB 880-54777/5-A	Method Blank	75	88
MB 880-54892/5-A	Method Blank	79	86
MB 880-54895/5-A	Method Blank	67 S1-	102
MB 880-54945/5-A	Method Blank	90	107
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29157-1	CS-1 (1')	142 S1+	114
880-29157-1 MS	CS-1 (1')	152 S1+	112
880-29157-1 MSD	CS-1 (1')	152 S1+	114
880-29157-2	CS-2 (1')	146 S1+	116
880-29157-3	CS-3 (1')	141 S1+	112
880-29157-4	CS-4 (1')	144 S1+	115
880-29157-5	CS-5 (1')	140 S1+	112
880-29157-6	CS-6 (1')	137 S1+	108
880-29157-7	CS-7 (1')	148 S1+	117
880-29157-8	CS-8 (1')	148 S1+	117
880-29157-9	CS-9 (1')	148 S1+	117
880-29157-10	CS-10 (1')	152 S1+	120
880-29157-11	CS-11 (1')	148 S1+	117
880-29157-12	CS-12 (1')	147 S1+	117
880-29157-13	CS-13 (1')	147 S1+	116
880-29157-14	CS-14 (1')	151 S1+	120
880-29157-15	CS-15 (1')	147 S1+	116

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Surrogate Summary

Client: Carmona Resources

Job ID: 880-29157-1

Project/Site: Denton 5 SWD

SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29157-16	CS-16 (1')	144 S1+	114
880-29157-17	CS-17 (1')	149 S1+	117
880-29157-18	CS-18 (1')	151 S1+	118
880-29157-19	CS-19 (1')	142 S1+	113
880-29157-20	CS-20 (1')	144 S1+	114
880-29157-21	CS-21 (1')	119	152 S1+
880-29157-21 MS	CS-21 (1')	128	143 S1+
880-29157-21 MSD	CS-21 (1')	118	135 S1+
880-29157-22	CS-22 (1')	118	146 S1+
880-29157-23	CS-23 (1')	115	141 S1+
880-29157-24	CS-24 (1')	113	141 S1+
880-29157-25	CS-25 (1')	110	138 S1+
880-29157-26	CS-26 (1')	131 S1+	157 S1+
880-29157-27	CS-27 (4.5')	105	122
880-29157-28	CS-28 (4.5')	102	121
880-29157-29	CS-29 (4.5')	129	143 S1+
880-29157-30	CS-30 (4.5')	115	138 S1+
880-29157-31	CS-31 (4.5')	129	150 S1+
880-29157-32	CS-32 (4.5')	112	134 S1+
880-29157-33	CS-33 (4.5')	109	129
880-29157-34	CS-34 (4.5')	129	152 S1+
880-29157-35	CS-35 (4.5')	124	149 S1+
880-29157-36	CS-36 (4.5')	115	140 S1+
880-29157-37	CS-37 (4.5')	114	139 S1+
880-29157-38	CS-38 (4.5')	134 S1+	154 S1+
880-29157-39	CS-39 (4.5')	111	133 S1+
880-29157-40	CS-40 (4.5')	112	137 S1+
880-29157-41	CS-41 (4.5')	158 S1+	121
880-29157-41 MS	CS-41 (4.5')	150 S1+	109
880-29157-41 MSD	CS-41 (4.5')	154 S1+	110
880-29157-42	CS-42 (4.5')	148 S1+	115
880-29157-43	CS-43 (4.5')	149 S1+	118
880-29157-44	CS-44 (4.5')	154 S1+	121
880-29157-45	CS-45 (4.5')	152 S1+	121
880-29157-46	CS-46 (4.5')	12 S1-	12 S1-
880-29157-47	CS-47 (4.5')	128	153 S1+
880-29157-48	CS-48 (4.5')	127	151 S1+
880-29157-49	CS-49 (4.5')	112	135 S1+
880-29157-50	CS-50 (4.5')	125	148 S1+
880-29157-51	CS-51 (4.5')	125	146 S1+
880-29157-52	CS-52 (4.5')	130	154 S1+
880-29157-53	SW-1 (1')	114	138 S1+
880-29157-54	SW-2 (3.5')	114	141 S1+
880-29157-55	SW-3 (3.5')	129	151 S1+
LCS 880-54897/2-A	Lab Control Sample	139 S1+	107
LCS 880-54898/2-A	Lab Control Sample	99	127
LCS 880-54899/2-A	Lab Control Sample	150 S1+	116
LCSD 880-54897/3-A	Lab Control Sample Dup	121	93
LCSD 880-54898/3-A	Lab Control Sample Dup	99	129
LCSD 880-54899/3-A	Lab Control Sample Dup	144 S1+	111

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Surrogate Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-54897/1-A	Method Blank	157 S1+	124
MB 880-54898/1-A	Method Blank	127	165 S1+
MB 880-54899/1-A	Method Blank	14 S1-	11 S1-
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54756/5-A

Matrix: Solid

Analysis Batch: 54833

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/05/23 12:42	06/06/23 11:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 12:42	06/06/23 11:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 12:42	06/06/23 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/05/23 12:42	06/06/23 11:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 12:42	06/06/23 11:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/05/23 12:42	06/06/23 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	06/05/23 12:42	06/06/23 11:02	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/05/23 12:42	06/06/23 11:02	1

Lab Sample ID: MB 880-54777/5-A

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/05/23 14:53	06/06/23 14:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	06/05/23 14:53	06/06/23 14:45	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/05/23 14:53	06/06/23 14:45	1

Lab Sample ID: MB 880-54892/5-A

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 04:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 04:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 04:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/06/23 15:18	06/07/23 04:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:18	06/07/23 04:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/06/23 15:18	06/07/23 04:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	06/06/23 15:18	06/07/23 04:13	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/06/23 15:18	06/07/23 04:13	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-54892/1-A

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1242		mg/Kg		124	70 - 130
Toluene	0.100	0.1092		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2064		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-54892/2-A

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1477	*+	mg/Kg		148	70 - 130	17	35
Toluene	0.100	0.1289		mg/Kg		129	70 - 130	17	35
Ethylbenzene	0.100	0.1231		mg/Kg		123	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2396		mg/Kg		120	70 - 130	15	35
o-Xylene	0.100	0.1205		mg/Kg		121	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-29157-1 MS

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: CS-1 (1')

Prep Type: Total/NA

Prep Batch: 54892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U ** F1	0.101	0.1459	F1	mg/Kg		144	70 - 130
Toluene	<0.00200	U	0.101	0.1230		mg/Kg		122	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.1069		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.202	0.2029		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.101	0.09720		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-29157-1 MSD

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: CS-1 (1')

Prep Type: Total/NA

Prep Batch: 54892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U ** F1	0.0994	0.1452	F1	mg/Kg		146	70 - 130	1	35
Toluene	<0.00200	U	0.0994	0.1184		mg/Kg		119	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0994	0.1048		mg/Kg		105	70 - 130	2	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-29157-1 MSD

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: CS-1 (1')

Prep Type: Total/NA

Prep Batch: 54892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1995		mg/Kg		100	70 - 130	2	35
o-Xylene	<0.00200	U	0.0994	0.09720		mg/Kg		98	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

Lab Sample ID: MB 880-54895/5-A

Matrix: Solid

Analysis Batch: 54833

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54895

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/06/23 22:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/06/23 22:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/06/23 22:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/06/23 15:26	06/06/23 22:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 15:26	06/06/23 22:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/06/23 15:26	06/06/23 22:44	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130				06/06/23 15:26	06/06/23 22:44	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/06/23 15:26	06/06/23 22:44	1

Lab Sample ID: LCS 880-54895/1-A

Matrix: Solid

Analysis Batch: 54833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1312	*+	mg/Kg		131	70 - 130
Toluene	0.100	0.09885		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.08580		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1676		mg/Kg		84	70 - 130
o-Xylene	0.100	0.09961		mg/Kg		100	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	97		70 - 130				
1,4-Difluorobenzene (Surr)	119		70 - 130				

Lab Sample ID: LCSD 880-54895/2-A

Matrix: Solid

Analysis Batch: 54833

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54895

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1248		mg/Kg		125	70 - 130	5	35
Toluene	0.100	0.09799		mg/Kg		98	70 - 130	1	35
Ethylbenzene	0.100	0.08650		mg/Kg		86	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1694		mg/Kg		85	70 - 130	1	35
o-Xylene	0.100	0.08721		mg/Kg		87	70 - 130	13	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-29157-21 MS
Matrix: Solid
Analysis Batch: 54833

Client Sample ID: CS-21 (1')
Prep Type: Total/NA
Prep Batch: 54895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U **	0.101	0.1305		mg/Kg		129	70 - 130
Toluene	<0.00200	U	0.101	0.1096		mg/Kg		109	70 - 130
Ethylbenzene	<0.00200	U	0.101	0.1002		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.202	0.2040		mg/Kg		101	70 - 130
o-Xylene	<0.00200	U	0.101	0.1029		mg/Kg		102	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-29157-21 MSD
Matrix: Solid
Analysis Batch: 54833

Client Sample ID: CS-21 (1')
Prep Type: Total/NA
Prep Batch: 54895

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U **	0.0996	0.1252		mg/Kg		126	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.09422		mg/Kg		95	70 - 130	15	35
Ethylbenzene	<0.00200	U	0.0996	0.08006		mg/Kg		80	70 - 130	22	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1568		mg/Kg		79	70 - 130	26	35
o-Xylene	<0.00200	U	0.0996	0.07794		mg/Kg		78	70 - 130	28	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: MB 880-54945/5-A
Matrix: Solid
Analysis Batch: 54944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/07/23 09:05	06/07/23 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/07/23 09:05	06/07/23 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/07/23 09:05	06/07/23 12:45	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	90		70 - 130	06/07/23 09:05	06/07/23 12:45	1			
1,4-Difluorobenzene (Surr)	107		70 - 130	06/07/23 09:05	06/07/23 12:45	1			

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-54945/1-A

Matrix: Solid

Analysis Batch: 54944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1220		mg/Kg		122	70 - 130
Toluene	0.100	0.1300		mg/Kg		130	70 - 130
Ethylbenzene	0.100	0.1060		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.1999		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09488		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-54945/2-A

Matrix: Solid

Analysis Batch: 54944

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1219		mg/Kg		122	70 - 130	0	35
Toluene	0.100	0.1198		mg/Kg		120	70 - 130	8	35
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.08994		mg/Kg		90	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-29157-41 MS

Matrix: Solid

Analysis Batch: 54944

Client Sample ID: CS-41 (4.5')

Prep Type: Total/NA

Prep Batch: 54945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.1225		mg/Kg		122	70 - 130
Toluene	<0.00201	U	0.101	0.1165		mg/Kg		116	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.1027		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2028		mg/Kg		101	70 - 130
o-Xylene	<0.00201	U	0.101	0.09751		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-29157-41 MSD

Matrix: Solid

Analysis Batch: 54944

Client Sample ID: CS-41 (4.5')

Prep Type: Total/NA

Prep Batch: 54945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1023		mg/Kg		103	70 - 130	18	35
Toluene	<0.00201	U	0.0990	0.1041		mg/Kg		105	70 - 130	11	35
Ethylbenzene	<0.00201	U	0.0990	0.08972		mg/Kg		91	70 - 130	13	35

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-29157-41 MSD

Matrix: Solid

Analysis Batch: 54944

Client Sample ID: CS-41 (4.5')

Prep Type: Total/NA

Prep Batch: 54945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1690		mg/Kg		85	70 - 130	18	35
o-Xylene	<0.00201	U	0.0990	0.08060		mg/Kg		81	70 - 130	19	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								

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

Lab Sample ID: MB 880-54897/1-A

Matrix: Solid

Analysis Batch: 54829

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 08:00	06/06/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 08:00	06/06/23 08:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 08:00	06/06/23 08:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130				06/06/23 08:00	06/06/23 08:23	1
o-Terphenyl	124		70 - 130				06/06/23 08:00	06/06/23 08:23	1

Lab Sample ID: LCS 880-54897/2-A

Matrix: Solid

Analysis Batch: 54829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1027		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	139	S1+	70 - 130						
o-Terphenyl	107		70 - 130						

Lab Sample ID: LCSD 880-54897/3-A

Matrix: Solid

Analysis Batch: 54829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54897

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1028		mg/Kg		103	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130	1	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-54897/3-A

Matrix: Solid

Analysis Batch: 54829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54897

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 880-29157-1 MS

Matrix: Solid

Analysis Batch: 54829

Client Sample ID: CS-1 (1')

Prep Type: Total/NA

Prep Batch: 54897

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1140		mg/Kg		112	70 - 130	
Diesel Range Organics (Over C10-C28)	76.3		1000	910.4		mg/Kg		83	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	152	S1+	70 - 130							
o-Terphenyl	112		70 - 130							

Lab Sample ID: 880-29157-1 MSD

Matrix: Solid

Analysis Batch: 54829

Client Sample ID: CS-1 (1')

Prep Type: Total/NA

Prep Batch: 54897

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1163		mg/Kg		115	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	76.3		998	915.0		mg/Kg		84	70 - 130	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	152	S1+	70 - 130									
o-Terphenyl	114		70 - 130									

Lab Sample ID: MB 880-54898/1-A

Matrix: Solid

Analysis Batch: 54831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54898

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/06/23 08:00	06/06/23 08:23	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 08:00	06/06/23 08:23	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 08:00	06/06/23 08:23	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
1-Chlorooctane	127		70 - 130				06/06/23 08:00	06/06/23 08:23	1		
o-Terphenyl	165	S1+	70 - 130				06/06/23 08:00	06/06/23 08:23	1		

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-54898/2-A
Matrix: Solid
Analysis Batch: 54831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1221		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1001		mg/Kg		100	70 - 130
Surrogate							
		LCS %Recovery	LCS Qualifier				Limits
1-Chlorooctane		99					70 - 130
o-Terphenyl		127					70 - 130

Lab Sample ID: LCSD 880-54898/3-A
Matrix: Solid
Analysis Batch: 54831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54898

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1201		mg/Kg		120	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	987.1		mg/Kg		99	70 - 130	1	20
Surrogate									
		LCSD %Recovery	LCSD Qualifier						
1-Chlorooctane		99							
o-Terphenyl		129							

Lab Sample ID: 880-29157-21 MS
Matrix: Solid
Analysis Batch: 54831

Client Sample ID: CS-21 (1')
Prep Type: Total/NA
Prep Batch: 54898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	921.5		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	52.1		999	979.0		mg/Kg		93	70 - 130
Surrogate									
		MS %Recovery	MS Qualifier						Limits
1-Chlorooctane		128							70 - 130
o-Terphenyl		143	S1+						70 - 130

Lab Sample ID: 880-29157-21 MSD
Matrix: Solid
Analysis Batch: 54831

Client Sample ID: CS-21 (1')
Prep Type: Total/NA
Prep Batch: 54898

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	872.3		mg/Kg		87	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	52.1		999	915.0		mg/Kg		86	70 - 130	7	20
Surrogate											
		MSD %Recovery	MSD Qualifier								Limits
1-Chlorooctane		118									70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-29157-21 MSD
Matrix: Solid
Analysis Batch: 54831

Client Sample ID: CS-21 (1')
Prep Type: Total/NA
Prep Batch: 54898

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	135	S1+	70 - 130

Lab Sample ID: MB 880-54899/1-A
Matrix: Solid
Analysis Batch: 54829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54899

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		06/06/23 15:37	06/07/23 01:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 01:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/06/23 15:37	06/07/23 01:12	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	14	S1-	70 - 130				06/06/23 15:37	06/07/23 01:12	1
<i>o</i> -Terphenyl	11	S1-	70 - 130				06/06/23 15:37	06/07/23 01:12	1

Lab Sample ID: LCS 880-54899/2-A
Matrix: Solid
Analysis Batch: 54829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	980.5		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	978.3		mg/Kg		98	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	150	S1+	70 - 130				
<i>o</i> -Terphenyl	116		70 - 130				

Lab Sample ID: LCSD 880-54899/3-A
Matrix: Solid
Analysis Batch: 54829

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54899

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1040		mg/Kg		104	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1029		mg/Kg		103	70 - 130	5	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	144	S1+	70 - 130						
<i>o</i> -Terphenyl	111		70 - 130						

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-29157-41 MS

Matrix: Solid

Analysis Batch: 54829

Client Sample ID: CS-41 (4.5')

Prep Type: Total/NA

Prep Batch: 54899

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1128		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	972.1		mg/Kg		94	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	150	S1+	70 - 130								
o-Terphenyl	109		70 - 130								

Lab Sample ID: 880-29157-41 MSD

Matrix: Solid

Analysis Batch: 54829

Client Sample ID: CS-41 (4.5')

Prep Type: Total/NA

Prep Batch: 54899

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1114		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	995.5		mg/Kg		97	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	154	S1+	70 - 130								
o-Terphenyl	110		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54894/1-A

Matrix: Solid

Analysis Batch: 54913

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			06/06/23 19:32	1

Lab Sample ID: LCS 880-54894/2-A

Matrix: Solid

Analysis Batch: 54913

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Chloride	250	254.4		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-54894/3-A

Matrix: Solid

Analysis Batch: 54913

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Chloride			250	254.6		mg/Kg	-	102	90 - 110	0	20

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-29157-21 MS

Matrix: Solid

Analysis Batch: 54913

Client Sample ID: CS-21 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	191	F1	248	410.6	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 880-29157-21 MSD

Matrix: Solid

Analysis Batch: 54913

Client Sample ID: CS-21 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	191	F1	248	410.5	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: 880-29157-31 MS

Matrix: Solid

Analysis Batch: 54913

Client Sample ID: CS-31 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	849		1250	2015		mg/Kg		94	90 - 110		

Lab Sample ID: 880-29157-31 MSD

Matrix: Solid

Analysis Batch: 54913

Client Sample ID: CS-31 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	849		1250	2015		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-54893/1-A

Matrix: Solid

Analysis Batch: 54914

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/06/23 22:39	1

Lab Sample ID: LCS 880-54893/2-A

Matrix: Solid

Analysis Batch: 54914

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.1		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-54893/3-A

Matrix: Solid

Analysis Batch: 54914

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.4		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-29157-1 MS

Matrix: Solid

Analysis Batch: 54914

Client Sample ID: CS-1 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	549	F1	250	755.3	F1	mg/Kg		83	90 - 110		

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-29157-1 MSD

Matrix: Solid

Analysis Batch: 54914

Client Sample ID: CS-1 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	549	F1	250	756.2	F1	mg/Kg		83	90 - 110	0	20

Lab Sample ID: 880-29157-11 MS

Matrix: Solid

Analysis Batch: 54914

Client Sample ID: CS-11 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	320		250	547.4		mg/Kg		91	90 - 110		

Lab Sample ID: 880-29157-11 MSD

Matrix: Solid

Analysis Batch: 54914

Client Sample ID: CS-11 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	320		250	548.5		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-54891/1-A

Matrix: Solid

Analysis Batch: 54915

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/06/23 19:48	1

Lab Sample ID: LCS 880-54891/2-A

Matrix: Solid

Analysis Batch: 54915

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	260.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-54891/3-A

Matrix: Solid

Analysis Batch: 54915

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-29153-A-4-B MS

Matrix: Solid

Analysis Batch: 54915

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	590	F1	251	785.2	F1	mg/Kg		78	90 - 110		

Lab Sample ID: MB 880-54896/1-A

Matrix: Solid

Analysis Batch: 54916

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/06/23 23:01	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-54896/2-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 54916											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.4		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-54896/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 54916											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-29157-49 MS						Client Sample ID: CS-49 (4.5')					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 54916											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	67.8		252	329.2		mg/Kg		104	90 - 110		

Lab Sample ID: 880-29157-49 MSD						Client Sample ID: CS-49 (4.5')					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 54916											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.8		252	333.0		mg/Kg		105	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 54756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54756/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 54777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54777/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 54833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-21	CS-21 (1')	Total/NA	Solid	8021B	54895
880-29157-22	CS-22 (1')	Total/NA	Solid	8021B	54895
880-29157-23	CS-23 (1')	Total/NA	Solid	8021B	54895
880-29157-24	CS-24 (1')	Total/NA	Solid	8021B	54895
880-29157-25	CS-25 (1')	Total/NA	Solid	8021B	54895
880-29157-26	CS-26 (1')	Total/NA	Solid	8021B	54895
880-29157-27	CS-27 (4.5')	Total/NA	Solid	8021B	54895
880-29157-28	CS-28 (4.5')	Total/NA	Solid	8021B	54895
880-29157-29	CS-29 (4.5')	Total/NA	Solid	8021B	54895
880-29157-30	CS-30 (4.5')	Total/NA	Solid	8021B	54895
880-29157-31	CS-31 (4.5')	Total/NA	Solid	8021B	54895
880-29157-32	CS-32 (4.5')	Total/NA	Solid	8021B	54895
880-29157-33	CS-33 (4.5')	Total/NA	Solid	8021B	54895
880-29157-34	CS-34 (4.5')	Total/NA	Solid	8021B	54895
880-29157-35	CS-35 (4.5')	Total/NA	Solid	8021B	54895
880-29157-36	CS-36 (4.5')	Total/NA	Solid	8021B	54895
880-29157-37	CS-37 (4.5')	Total/NA	Solid	8021B	54895
880-29157-38	CS-38 (4.5')	Total/NA	Solid	8021B	54895
880-29157-39	CS-39 (4.5')	Total/NA	Solid	8021B	54895
880-29157-40	CS-40 (4.5')	Total/NA	Solid	8021B	54895
MB 880-54756/5-A	Method Blank	Total/NA	Solid	8021B	54756
MB 880-54895/5-A	Method Blank	Total/NA	Solid	8021B	54895
LCS 880-54895/1-A	Lab Control Sample	Total/NA	Solid	8021B	54895
LCSD 880-54895/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54895
880-29157-21 MS	CS-21 (1')	Total/NA	Solid	8021B	54895
880-29157-21 MSD	CS-21 (1')	Total/NA	Solid	8021B	54895

Analysis Batch: 54872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-1	CS-1 (1')	Total/NA	Solid	8021B	54892
880-29157-2	CS-2 (1')	Total/NA	Solid	8021B	54892
880-29157-3	CS-3 (1')	Total/NA	Solid	8021B	54892
880-29157-4	CS-4 (1')	Total/NA	Solid	8021B	54892
880-29157-5	CS-5 (1')	Total/NA	Solid	8021B	54892
880-29157-6	CS-6 (1')	Total/NA	Solid	8021B	54892
880-29157-7	CS-7 (1')	Total/NA	Solid	8021B	54892
880-29157-8	CS-8 (1')	Total/NA	Solid	8021B	54892
880-29157-9	CS-9 (1')	Total/NA	Solid	8021B	54892
880-29157-10	CS-10 (1')	Total/NA	Solid	8021B	54892
880-29157-11	CS-11 (1')	Total/NA	Solid	8021B	54892
880-29157-12	CS-12 (1')	Total/NA	Solid	8021B	54892
880-29157-13	CS-13 (1')	Total/NA	Solid	8021B	54892
880-29157-14	CS-14 (1')	Total/NA	Solid	8021B	54892

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QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 54872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-15	CS-15 (1')	Total/NA	Solid	8021B	54892
880-29157-16	CS-16 (1')	Total/NA	Solid	8021B	54892
880-29157-17	CS-17 (1')	Total/NA	Solid	8021B	54892
880-29157-18	CS-18 (1')	Total/NA	Solid	8021B	54892
880-29157-19	CS-19 (1')	Total/NA	Solid	8021B	54892
880-29157-20	CS-20 (1')	Total/NA	Solid	8021B	54892
MB 880-54777/5-A	Method Blank	Total/NA	Solid	8021B	54777
MB 880-54892/5-A	Method Blank	Total/NA	Solid	8021B	54892
LCS 880-54892/1-A	Lab Control Sample	Total/NA	Solid	8021B	54892
LCSD 880-54892/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54892
880-29157-1 MS	CS-1 (1')	Total/NA	Solid	8021B	54892
880-29157-1 MSD	CS-1 (1')	Total/NA	Solid	8021B	54892

Prep Batch: 54892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-1	CS-1 (1')	Total/NA	Solid	5035	
880-29157-2	CS-2 (1')	Total/NA	Solid	5035	
880-29157-3	CS-3 (1')	Total/NA	Solid	5035	
880-29157-4	CS-4 (1')	Total/NA	Solid	5035	
880-29157-5	CS-5 (1')	Total/NA	Solid	5035	
880-29157-6	CS-6 (1')	Total/NA	Solid	5035	
880-29157-7	CS-7 (1')	Total/NA	Solid	5035	
880-29157-8	CS-8 (1')	Total/NA	Solid	5035	
880-29157-9	CS-9 (1')	Total/NA	Solid	5035	
880-29157-10	CS-10 (1')	Total/NA	Solid	5035	
880-29157-11	CS-11 (1')	Total/NA	Solid	5035	
880-29157-12	CS-12 (1')	Total/NA	Solid	5035	
880-29157-13	CS-13 (1')	Total/NA	Solid	5035	
880-29157-14	CS-14 (1')	Total/NA	Solid	5035	
880-29157-15	CS-15 (1')	Total/NA	Solid	5035	
880-29157-16	CS-16 (1')	Total/NA	Solid	5035	
880-29157-17	CS-17 (1')	Total/NA	Solid	5035	
880-29157-18	CS-18 (1')	Total/NA	Solid	5035	
880-29157-19	CS-19 (1')	Total/NA	Solid	5035	
880-29157-20	CS-20 (1')	Total/NA	Solid	5035	
MB 880-54892/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54892/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54892/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29157-1 MS	CS-1 (1')	Total/NA	Solid	5035	
880-29157-1 MSD	CS-1 (1')	Total/NA	Solid	5035	

Prep Batch: 54895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-21	CS-21 (1')	Total/NA	Solid	5035	
880-29157-22	CS-22 (1')	Total/NA	Solid	5035	
880-29157-23	CS-23 (1')	Total/NA	Solid	5035	
880-29157-24	CS-24 (1')	Total/NA	Solid	5035	
880-29157-25	CS-25 (1')	Total/NA	Solid	5035	
880-29157-26	CS-26 (1')	Total/NA	Solid	5035	
880-29157-27	CS-27 (4.5')	Total/NA	Solid	5035	
880-29157-28	CS-28 (4.5')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 54895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-29	CS-29 (4.5')	Total/NA	Solid	5035	
880-29157-30	CS-30 (4.5')	Total/NA	Solid	5035	
880-29157-31	CS-31 (4.5')	Total/NA	Solid	5035	
880-29157-32	CS-32 (4.5')	Total/NA	Solid	5035	
880-29157-33	CS-33 (4.5')	Total/NA	Solid	5035	
880-29157-34	CS-34 (4.5')	Total/NA	Solid	5035	
880-29157-35	CS-35 (4.5')	Total/NA	Solid	5035	
880-29157-36	CS-36 (4.5')	Total/NA	Solid	5035	
880-29157-37	CS-37 (4.5')	Total/NA	Solid	5035	
880-29157-38	CS-38 (4.5')	Total/NA	Solid	5035	
880-29157-39	CS-39 (4.5')	Total/NA	Solid	5035	
880-29157-40	CS-40 (4.5')	Total/NA	Solid	5035	
MB 880-54895/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54895/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54895/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29157-21 MS	CS-21 (1')	Total/NA	Solid	5035	
880-29157-21 MSD	CS-21 (1')	Total/NA	Solid	5035	

Analysis Batch: 54944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-41	CS-41 (4.5')	Total/NA	Solid	8021B	54945
880-29157-42	CS-42 (4.5')	Total/NA	Solid	8021B	54945
880-29157-43	CS-43 (4.5')	Total/NA	Solid	8021B	54945
880-29157-44	CS-44 (4.5')	Total/NA	Solid	8021B	54945
880-29157-45	CS-45 (4.5')	Total/NA	Solid	8021B	54945
880-29157-46	CS-46 (4.5')	Total/NA	Solid	8021B	54945
880-29157-47	CS-47 (4.5')	Total/NA	Solid	8021B	54945
880-29157-48	CS-48 (4.5')	Total/NA	Solid	8021B	54945
880-29157-49	CS-49 (4.5')	Total/NA	Solid	8021B	54945
880-29157-50	CS-50 (4.5')	Total/NA	Solid	8021B	54945
880-29157-51	CS-51 (4.5')	Total/NA	Solid	8021B	54945
880-29157-52	CS-52 (4.5')	Total/NA	Solid	8021B	54945
880-29157-53	SW-1 (1')	Total/NA	Solid	8021B	54945
880-29157-54	SW-2 (3.5')	Total/NA	Solid	8021B	54945
880-29157-55	SW-3 (3.5')	Total/NA	Solid	8021B	54945
MB 880-54945/5-A	Method Blank	Total/NA	Solid	8021B	54945
LCS 880-54945/1-A	Lab Control Sample	Total/NA	Solid	8021B	54945
LCSD 880-54945/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54945
880-29157-41 MS	CS-41 (4.5')	Total/NA	Solid	8021B	54945
880-29157-41 MSD	CS-41 (4.5')	Total/NA	Solid	8021B	54945

Prep Batch: 54945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-41	CS-41 (4.5')	Total/NA	Solid	5035	
880-29157-42	CS-42 (4.5')	Total/NA	Solid	5035	
880-29157-43	CS-43 (4.5')	Total/NA	Solid	5035	
880-29157-44	CS-44 (4.5')	Total/NA	Solid	5035	
880-29157-45	CS-45 (4.5')	Total/NA	Solid	5035	
880-29157-46	CS-46 (4.5')	Total/NA	Solid	5035	
880-29157-47	CS-47 (4.5')	Total/NA	Solid	5035	
880-29157-48	CS-48 (4.5')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 54945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-49	CS-49 (4.5')	Total/NA	Solid	5035	
880-29157-50	CS-50 (4.5')	Total/NA	Solid	5035	
880-29157-51	CS-51 (4.5')	Total/NA	Solid	5035	
880-29157-52	CS-52 (4.5')	Total/NA	Solid	5035	
880-29157-53	SW-1 (1')	Total/NA	Solid	5035	
880-29157-54	SW-2 (3.5')	Total/NA	Solid	5035	
880-29157-55	SW-3 (3.5')	Total/NA	Solid	5035	
MB 880-54945/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54945/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54945/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29157-41 MS	CS-41 (4.5')	Total/NA	Solid	5035	
880-29157-41 MSD	CS-41 (4.5')	Total/NA	Solid	5035	

Analysis Batch: 54956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-1	CS-1 (1')	Total/NA	Solid	Total BTEX	
880-29157-2	CS-2 (1')	Total/NA	Solid	Total BTEX	
880-29157-3	CS-3 (1')	Total/NA	Solid	Total BTEX	
880-29157-4	CS-4 (1')	Total/NA	Solid	Total BTEX	
880-29157-5	CS-5 (1')	Total/NA	Solid	Total BTEX	
880-29157-6	CS-6 (1')	Total/NA	Solid	Total BTEX	
880-29157-7	CS-7 (1')	Total/NA	Solid	Total BTEX	
880-29157-8	CS-8 (1')	Total/NA	Solid	Total BTEX	
880-29157-9	CS-9 (1')	Total/NA	Solid	Total BTEX	
880-29157-10	CS-10 (1')	Total/NA	Solid	Total BTEX	
880-29157-11	CS-11 (1')	Total/NA	Solid	Total BTEX	
880-29157-12	CS-12 (1')	Total/NA	Solid	Total BTEX	
880-29157-13	CS-13 (1')	Total/NA	Solid	Total BTEX	
880-29157-14	CS-14 (1')	Total/NA	Solid	Total BTEX	
880-29157-15	CS-15 (1')	Total/NA	Solid	Total BTEX	
880-29157-16	CS-16 (1')	Total/NA	Solid	Total BTEX	
880-29157-17	CS-17 (1')	Total/NA	Solid	Total BTEX	
880-29157-18	CS-18 (1')	Total/NA	Solid	Total BTEX	
880-29157-19	CS-19 (1')	Total/NA	Solid	Total BTEX	
880-29157-20	CS-20 (1')	Total/NA	Solid	Total BTEX	
880-29157-21	CS-21 (1')	Total/NA	Solid	Total BTEX	
880-29157-22	CS-22 (1')	Total/NA	Solid	Total BTEX	
880-29157-23	CS-23 (1')	Total/NA	Solid	Total BTEX	
880-29157-24	CS-24 (1')	Total/NA	Solid	Total BTEX	
880-29157-25	CS-25 (1')	Total/NA	Solid	Total BTEX	
880-29157-26	CS-26 (1')	Total/NA	Solid	Total BTEX	
880-29157-27	CS-27 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-28	CS-28 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-29	CS-29 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-30	CS-30 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-31	CS-31 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-32	CS-32 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-33	CS-33 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-34	CS-34 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-35	CS-35 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-36	CS-36 (4.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 54956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-37	CS-37 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-38	CS-38 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-39	CS-39 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-40	CS-40 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-41	CS-41 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-42	CS-42 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-43	CS-43 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-44	CS-44 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-45	CS-45 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-46	CS-46 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-47	CS-47 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-48	CS-48 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-49	CS-49 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-50	CS-50 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-51	CS-51 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-52	CS-52 (4.5')	Total/NA	Solid	Total BTEX	
880-29157-53	SW-1 (1')	Total/NA	Solid	Total BTEX	
880-29157-54	SW-2 (3.5')	Total/NA	Solid	Total BTEX	
880-29157-55	SW-3 (3.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 54829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-1	CS-1 (1')	Total/NA	Solid	8015B NM	54897
880-29157-2	CS-2 (1')	Total/NA	Solid	8015B NM	54897
880-29157-3	CS-3 (1')	Total/NA	Solid	8015B NM	54897
880-29157-4	CS-4 (1')	Total/NA	Solid	8015B NM	54897
880-29157-5	CS-5 (1')	Total/NA	Solid	8015B NM	54897
880-29157-6	CS-6 (1')	Total/NA	Solid	8015B NM	54897
880-29157-7	CS-7 (1')	Total/NA	Solid	8015B NM	54897
880-29157-8	CS-8 (1')	Total/NA	Solid	8015B NM	54897
880-29157-9	CS-9 (1')	Total/NA	Solid	8015B NM	54897
880-29157-10	CS-10 (1')	Total/NA	Solid	8015B NM	54897
880-29157-11	CS-11 (1')	Total/NA	Solid	8015B NM	54897
880-29157-12	CS-12 (1')	Total/NA	Solid	8015B NM	54897
880-29157-13	CS-13 (1')	Total/NA	Solid	8015B NM	54897
880-29157-14	CS-14 (1')	Total/NA	Solid	8015B NM	54897
880-29157-15	CS-15 (1')	Total/NA	Solid	8015B NM	54897
880-29157-16	CS-16 (1')	Total/NA	Solid	8015B NM	54897
880-29157-17	CS-17 (1')	Total/NA	Solid	8015B NM	54897
880-29157-18	CS-18 (1')	Total/NA	Solid	8015B NM	54897
880-29157-19	CS-19 (1')	Total/NA	Solid	8015B NM	54897
880-29157-20	CS-20 (1')	Total/NA	Solid	8015B NM	54897
880-29157-41	CS-41 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-42	CS-42 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-43	CS-43 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-44	CS-44 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-45	CS-45 (4.5')	Total/NA	Solid	8015B NM	54899
MB 880-54897/1-A	Method Blank	Total/NA	Solid	8015B NM	54897
MB 880-54899/1-A	Method Blank	Total/NA	Solid	8015B NM	54899

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 54829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-54897/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54897
LCS 880-54899/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54899
LCSD 880-54897/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54897
LCSD 880-54899/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54899
880-29157-1 MS	CS-1 (1')	Total/NA	Solid	8015B NM	54897
880-29157-1 MSD	CS-1 (1')	Total/NA	Solid	8015B NM	54897
880-29157-41 MS	CS-41 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-41 MSD	CS-41 (4.5')	Total/NA	Solid	8015B NM	54899

Analysis Batch: 54831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-21	CS-21 (1')	Total/NA	Solid	8015B NM	54898
880-29157-22	CS-22 (1')	Total/NA	Solid	8015B NM	54898
880-29157-23	CS-23 (1')	Total/NA	Solid	8015B NM	54898
880-29157-24	CS-24 (1')	Total/NA	Solid	8015B NM	54898
880-29157-25	CS-25 (1')	Total/NA	Solid	8015B NM	54898
880-29157-26	CS-26 (1')	Total/NA	Solid	8015B NM	54898
880-29157-27	CS-27 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-28	CS-28 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-29	CS-29 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-30	CS-30 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-31	CS-31 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-32	CS-32 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-33	CS-33 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-34	CS-34 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-35	CS-35 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-36	CS-36 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-37	CS-37 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-38	CS-38 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-39	CS-39 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-40	CS-40 (4.5')	Total/NA	Solid	8015B NM	54898
880-29157-46	CS-46 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-47	CS-47 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-48	CS-48 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-49	CS-49 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-50	CS-50 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-51	CS-51 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-52	CS-52 (4.5')	Total/NA	Solid	8015B NM	54899
880-29157-53	SW-1 (1')	Total/NA	Solid	8015B NM	54899
880-29157-54	SW-2 (3.5')	Total/NA	Solid	8015B NM	54899
880-29157-55	SW-3 (3.5')	Total/NA	Solid	8015B NM	54899
MB 880-54898/1-A	Method Blank	Total/NA	Solid	8015B NM	54898
LCS 880-54898/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54898
LCSD 880-54898/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54898
880-29157-21 MS	CS-21 (1')	Total/NA	Solid	8015B NM	54898
880-29157-21 MSD	CS-21 (1')	Total/NA	Solid	8015B NM	54898

Prep Batch: 54897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-1	CS-1 (1')	Total/NA	Solid	8015NM Prep	
880-29157-2	CS-2 (1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 54897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-3	CS-3 (1')	Total/NA	Solid	8015NM Prep	
880-29157-4	CS-4 (1')	Total/NA	Solid	8015NM Prep	
880-29157-5	CS-5 (1')	Total/NA	Solid	8015NM Prep	
880-29157-6	CS-6 (1')	Total/NA	Solid	8015NM Prep	
880-29157-7	CS-7 (1')	Total/NA	Solid	8015NM Prep	
880-29157-8	CS-8 (1')	Total/NA	Solid	8015NM Prep	
880-29157-9	CS-9 (1')	Total/NA	Solid	8015NM Prep	
880-29157-10	CS-10 (1')	Total/NA	Solid	8015NM Prep	
880-29157-11	CS-11 (1')	Total/NA	Solid	8015NM Prep	
880-29157-12	CS-12 (1')	Total/NA	Solid	8015NM Prep	
880-29157-13	CS-13 (1')	Total/NA	Solid	8015NM Prep	
880-29157-14	CS-14 (1')	Total/NA	Solid	8015NM Prep	
880-29157-15	CS-15 (1')	Total/NA	Solid	8015NM Prep	
880-29157-16	CS-16 (1')	Total/NA	Solid	8015NM Prep	
880-29157-17	CS-17 (1')	Total/NA	Solid	8015NM Prep	
880-29157-18	CS-18 (1')	Total/NA	Solid	8015NM Prep	
880-29157-19	CS-19 (1')	Total/NA	Solid	8015NM Prep	
880-29157-20	CS-20 (1')	Total/NA	Solid	8015NM Prep	
MB 880-54897/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54897/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54897/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29157-1 MS	CS-1 (1')	Total/NA	Solid	8015NM Prep	
880-29157-1 MSD	CS-1 (1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 54898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-21	CS-21 (1')	Total/NA	Solid	8015NM Prep	
880-29157-22	CS-22 (1')	Total/NA	Solid	8015NM Prep	
880-29157-23	CS-23 (1')	Total/NA	Solid	8015NM Prep	
880-29157-24	CS-24 (1')	Total/NA	Solid	8015NM Prep	
880-29157-25	CS-25 (1')	Total/NA	Solid	8015NM Prep	
880-29157-26	CS-26 (1')	Total/NA	Solid	8015NM Prep	
880-29157-27	CS-27 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-28	CS-28 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-29	CS-29 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-30	CS-30 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-31	CS-31 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-32	CS-32 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-33	CS-33 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-34	CS-34 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-35	CS-35 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-36	CS-36 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-37	CS-37 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-38	CS-38 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-39	CS-39 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-40	CS-40 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-54898/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54898/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54898/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29157-21 MS	CS-21 (1')	Total/NA	Solid	8015NM Prep	
880-29157-21 MSD	CS-21 (1')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC Semi VOA

Prep Batch: 54899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-41	CS-41 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-42	CS-42 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-43	CS-43 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-44	CS-44 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-45	CS-45 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-46	CS-46 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-47	CS-47 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-48	CS-48 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-49	CS-49 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-50	CS-50 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-51	CS-51 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-52	CS-52 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-53	SW-1 (1')	Total/NA	Solid	8015NM Prep	
880-29157-54	SW-2 (3.5')	Total/NA	Solid	8015NM Prep	
880-29157-55	SW-3 (3.5')	Total/NA	Solid	8015NM Prep	
MB 880-54899/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54899/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54899/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29157-41 MS	CS-41 (4.5')	Total/NA	Solid	8015NM Prep	
880-29157-41 MSD	CS-41 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-1	CS-1 (1')	Total/NA	Solid	8015 NM	
880-29157-2	CS-2 (1')	Total/NA	Solid	8015 NM	
880-29157-3	CS-3 (1')	Total/NA	Solid	8015 NM	
880-29157-4	CS-4 (1')	Total/NA	Solid	8015 NM	
880-29157-5	CS-5 (1')	Total/NA	Solid	8015 NM	
880-29157-6	CS-6 (1')	Total/NA	Solid	8015 NM	
880-29157-7	CS-7 (1')	Total/NA	Solid	8015 NM	
880-29157-8	CS-8 (1')	Total/NA	Solid	8015 NM	
880-29157-9	CS-9 (1')	Total/NA	Solid	8015 NM	
880-29157-10	CS-10 (1')	Total/NA	Solid	8015 NM	
880-29157-11	CS-11 (1')	Total/NA	Solid	8015 NM	
880-29157-12	CS-12 (1')	Total/NA	Solid	8015 NM	
880-29157-13	CS-13 (1')	Total/NA	Solid	8015 NM	
880-29157-14	CS-14 (1')	Total/NA	Solid	8015 NM	
880-29157-15	CS-15 (1')	Total/NA	Solid	8015 NM	
880-29157-16	CS-16 (1')	Total/NA	Solid	8015 NM	
880-29157-17	CS-17 (1')	Total/NA	Solid	8015 NM	
880-29157-18	CS-18 (1')	Total/NA	Solid	8015 NM	
880-29157-19	CS-19 (1')	Total/NA	Solid	8015 NM	
880-29157-20	CS-20 (1')	Total/NA	Solid	8015 NM	
880-29157-21	CS-21 (1')	Total/NA	Solid	8015 NM	
880-29157-22	CS-22 (1')	Total/NA	Solid	8015 NM	
880-29157-23	CS-23 (1')	Total/NA	Solid	8015 NM	
880-29157-24	CS-24 (1')	Total/NA	Solid	8015 NM	
880-29157-25	CS-25 (1')	Total/NA	Solid	8015 NM	
880-29157-26	CS-26 (1')	Total/NA	Solid	8015 NM	
880-29157-27	CS-27 (4.5')	Total/NA	Solid	8015 NM	
880-29157-28	CS-28 (4.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 54952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-29	CS-29 (4.5')	Total/NA	Solid	8015 NM	
880-29157-30	CS-30 (4.5')	Total/NA	Solid	8015 NM	
880-29157-31	CS-31 (4.5')	Total/NA	Solid	8015 NM	
880-29157-32	CS-32 (4.5')	Total/NA	Solid	8015 NM	
880-29157-33	CS-33 (4.5')	Total/NA	Solid	8015 NM	
880-29157-34	CS-34 (4.5')	Total/NA	Solid	8015 NM	
880-29157-35	CS-35 (4.5')	Total/NA	Solid	8015 NM	
880-29157-36	CS-36 (4.5')	Total/NA	Solid	8015 NM	
880-29157-37	CS-37 (4.5')	Total/NA	Solid	8015 NM	
880-29157-38	CS-38 (4.5')	Total/NA	Solid	8015 NM	
880-29157-39	CS-39 (4.5')	Total/NA	Solid	8015 NM	
880-29157-40	CS-40 (4.5')	Total/NA	Solid	8015 NM	
880-29157-41	CS-41 (4.5')	Total/NA	Solid	8015 NM	
880-29157-42	CS-42 (4.5')	Total/NA	Solid	8015 NM	
880-29157-43	CS-43 (4.5')	Total/NA	Solid	8015 NM	
880-29157-44	CS-44 (4.5')	Total/NA	Solid	8015 NM	
880-29157-45	CS-45 (4.5')	Total/NA	Solid	8015 NM	
880-29157-46	CS-46 (4.5')	Total/NA	Solid	8015 NM	
880-29157-47	CS-47 (4.5')	Total/NA	Solid	8015 NM	
880-29157-48	CS-48 (4.5')	Total/NA	Solid	8015 NM	
880-29157-49	CS-49 (4.5')	Total/NA	Solid	8015 NM	
880-29157-50	CS-50 (4.5')	Total/NA	Solid	8015 NM	
880-29157-51	CS-51 (4.5')	Total/NA	Solid	8015 NM	
880-29157-52	CS-52 (4.5')	Total/NA	Solid	8015 NM	
880-29157-53	SW-1 (1')	Total/NA	Solid	8015 NM	
880-29157-54	SW-2 (3.5')	Total/NA	Solid	8015 NM	
880-29157-55	SW-3 (3.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-41	CS-41 (4.5')	Soluble	Solid	DI Leach	
880-29157-42	CS-42 (4.5')	Soluble	Solid	DI Leach	
880-29157-43	CS-43 (4.5')	Soluble	Solid	DI Leach	
880-29157-44	CS-44 (4.5')	Soluble	Solid	DI Leach	
880-29157-45	CS-45 (4.5')	Soluble	Solid	DI Leach	
880-29157-46	CS-46 (4.5')	Soluble	Solid	DI Leach	
880-29157-47	CS-47 (4.5')	Soluble	Solid	DI Leach	
880-29157-48	CS-48 (4.5')	Soluble	Solid	DI Leach	
MB 880-54891/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54891/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54891/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29153-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-29153-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 54893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-1	CS-1 (1')	Soluble	Solid	DI Leach	
880-29157-2	CS-2 (1')	Soluble	Solid	DI Leach	
880-29157-3	CS-3 (1')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 54893 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-4	CS-4 (1')	Soluble	Solid	DI Leach	
880-29157-5	CS-5 (1')	Soluble	Solid	DI Leach	
880-29157-6	CS-6 (1')	Soluble	Solid	DI Leach	
880-29157-7	CS-7 (1')	Soluble	Solid	DI Leach	
880-29157-8	CS-8 (1')	Soluble	Solid	DI Leach	
880-29157-9	CS-9 (1')	Soluble	Solid	DI Leach	
880-29157-10	CS-10 (1')	Soluble	Solid	DI Leach	
880-29157-11	CS-11 (1')	Soluble	Solid	DI Leach	
880-29157-12	CS-12 (1')	Soluble	Solid	DI Leach	
880-29157-13	CS-13 (1')	Soluble	Solid	DI Leach	
880-29157-14	CS-14 (1')	Soluble	Solid	DI Leach	
880-29157-15	CS-15 (1')	Soluble	Solid	DI Leach	
880-29157-16	CS-16 (1')	Soluble	Solid	DI Leach	
880-29157-17	CS-17 (1')	Soluble	Solid	DI Leach	
880-29157-18	CS-18 (1')	Soluble	Solid	DI Leach	
880-29157-19	CS-19 (1')	Soluble	Solid	DI Leach	
880-29157-20	CS-20 (1')	Soluble	Solid	DI Leach	
MB 880-54893/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54893/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54893/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29157-1 MS	CS-1 (1')	Soluble	Solid	DI Leach	
880-29157-1 MSD	CS-1 (1')	Soluble	Solid	DI Leach	
880-29157-11 MS	CS-11 (1')	Soluble	Solid	DI Leach	
880-29157-11 MSD	CS-11 (1')	Soluble	Solid	DI Leach	

Leach Batch: 54894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-21	CS-21 (1')	Soluble	Solid	DI Leach	
880-29157-22	CS-22 (1')	Soluble	Solid	DI Leach	
880-29157-23	CS-23 (1')	Soluble	Solid	DI Leach	
880-29157-24	CS-24 (1')	Soluble	Solid	DI Leach	
880-29157-25	CS-25 (1')	Soluble	Solid	DI Leach	
880-29157-26	CS-26 (1')	Soluble	Solid	DI Leach	
880-29157-27	CS-27 (4.5')	Soluble	Solid	DI Leach	
880-29157-28	CS-28 (4.5')	Soluble	Solid	DI Leach	
880-29157-29	CS-29 (4.5')	Soluble	Solid	DI Leach	
880-29157-30	CS-30 (4.5')	Soluble	Solid	DI Leach	
880-29157-31	CS-31 (4.5')	Soluble	Solid	DI Leach	
880-29157-32	CS-32 (4.5')	Soluble	Solid	DI Leach	
880-29157-33	CS-33 (4.5')	Soluble	Solid	DI Leach	
880-29157-34	CS-34 (4.5')	Soluble	Solid	DI Leach	
880-29157-35	CS-35 (4.5')	Soluble	Solid	DI Leach	
880-29157-36	CS-36 (4.5')	Soluble	Solid	DI Leach	
880-29157-37	CS-37 (4.5')	Soluble	Solid	DI Leach	
880-29157-38	CS-38 (4.5')	Soluble	Solid	DI Leach	
880-29157-39	CS-39 (4.5')	Soluble	Solid	DI Leach	
880-29157-40	CS-40 (4.5')	Soluble	Solid	DI Leach	
MB 880-54894/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54894/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54894/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29157-21 MS	CS-21 (1')	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 54894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-21 MSD	CS-21 (1')	Soluble	Solid	DI Leach	
880-29157-31 MS	CS-31 (4.5')	Soluble	Solid	DI Leach	
880-29157-31 MSD	CS-31 (4.5')	Soluble	Solid	DI Leach	

Leach Batch: 54896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-49	CS-49 (4.5')	Soluble	Solid	DI Leach	
880-29157-50	CS-50 (4.5')	Soluble	Solid	DI Leach	
880-29157-51	CS-51 (4.5')	Soluble	Solid	DI Leach	
880-29157-52	CS-52 (4.5')	Soluble	Solid	DI Leach	
880-29157-53	SW-1 (1')	Soluble	Solid	DI Leach	
880-29157-54	SW-2 (3.5')	Soluble	Solid	DI Leach	
880-29157-55	SW-3 (3.5')	Soluble	Solid	DI Leach	
MB 880-54896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29157-49 MS	CS-49 (4.5')	Soluble	Solid	DI Leach	
880-29157-49 MSD	CS-49 (4.5')	Soluble	Solid	DI Leach	

Analysis Batch: 54913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-21	CS-21 (1')	Soluble	Solid	300.0	54894
880-29157-22	CS-22 (1')	Soluble	Solid	300.0	54894
880-29157-23	CS-23 (1')	Soluble	Solid	300.0	54894
880-29157-24	CS-24 (1')	Soluble	Solid	300.0	54894
880-29157-25	CS-25 (1')	Soluble	Solid	300.0	54894
880-29157-26	CS-26 (1')	Soluble	Solid	300.0	54894
880-29157-27	CS-27 (4.5')	Soluble	Solid	300.0	54894
880-29157-28	CS-28 (4.5')	Soluble	Solid	300.0	54894
880-29157-29	CS-29 (4.5')	Soluble	Solid	300.0	54894
880-29157-30	CS-30 (4.5')	Soluble	Solid	300.0	54894
880-29157-31	CS-31 (4.5')	Soluble	Solid	300.0	54894
880-29157-32	CS-32 (4.5')	Soluble	Solid	300.0	54894
880-29157-33	CS-33 (4.5')	Soluble	Solid	300.0	54894
880-29157-34	CS-34 (4.5')	Soluble	Solid	300.0	54894
880-29157-35	CS-35 (4.5')	Soluble	Solid	300.0	54894
880-29157-36	CS-36 (4.5')	Soluble	Solid	300.0	54894
880-29157-37	CS-37 (4.5')	Soluble	Solid	300.0	54894
880-29157-38	CS-38 (4.5')	Soluble	Solid	300.0	54894
880-29157-39	CS-39 (4.5')	Soluble	Solid	300.0	54894
880-29157-40	CS-40 (4.5')	Soluble	Solid	300.0	54894
MB 880-54894/1-A	Method Blank	Soluble	Solid	300.0	54894
LCS 880-54894/2-A	Lab Control Sample	Soluble	Solid	300.0	54894
LCSD 880-54894/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54894
880-29157-21 MS	CS-21 (1')	Soluble	Solid	300.0	54894
880-29157-21 MSD	CS-21 (1')	Soluble	Solid	300.0	54894
880-29157-31 MS	CS-31 (4.5')	Soluble	Solid	300.0	54894
880-29157-31 MSD	CS-31 (4.5')	Soluble	Solid	300.0	54894

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

HPLC/IC

Analysis Batch: 54914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-1	CS-1 (1')	Soluble	Solid	300.0	54893
880-29157-2	CS-2 (1')	Soluble	Solid	300.0	54893
880-29157-3	CS-3 (1')	Soluble	Solid	300.0	54893
880-29157-4	CS-4 (1')	Soluble	Solid	300.0	54893
880-29157-5	CS-5 (1')	Soluble	Solid	300.0	54893
880-29157-6	CS-6 (1')	Soluble	Solid	300.0	54893
880-29157-7	CS-7 (1')	Soluble	Solid	300.0	54893
880-29157-8	CS-8 (1')	Soluble	Solid	300.0	54893
880-29157-9	CS-9 (1')	Soluble	Solid	300.0	54893
880-29157-10	CS-10 (1')	Soluble	Solid	300.0	54893
880-29157-11	CS-11 (1')	Soluble	Solid	300.0	54893
880-29157-12	CS-12 (1')	Soluble	Solid	300.0	54893
880-29157-13	CS-13 (1')	Soluble	Solid	300.0	54893
880-29157-14	CS-14 (1')	Soluble	Solid	300.0	54893
880-29157-15	CS-15 (1')	Soluble	Solid	300.0	54893
880-29157-16	CS-16 (1')	Soluble	Solid	300.0	54893
880-29157-17	CS-17 (1')	Soluble	Solid	300.0	54893
880-29157-18	CS-18 (1')	Soluble	Solid	300.0	54893
880-29157-19	CS-19 (1')	Soluble	Solid	300.0	54893
880-29157-20	CS-20 (1')	Soluble	Solid	300.0	54893
MB 880-54893/1-A	Method Blank	Soluble	Solid	300.0	54893
LCS 880-54893/2-A	Lab Control Sample	Soluble	Solid	300.0	54893
LCSD 880-54893/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54893
880-29157-1 MS	CS-1 (1')	Soluble	Solid	300.0	54893
880-29157-1 MSD	CS-1 (1')	Soluble	Solid	300.0	54893
880-29157-11 MS	CS-11 (1')	Soluble	Solid	300.0	54893
880-29157-11 MSD	CS-11 (1')	Soluble	Solid	300.0	54893

Analysis Batch: 54915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-41	CS-41 (4.5')	Soluble	Solid	300.0	54891
880-29157-42	CS-42 (4.5')	Soluble	Solid	300.0	54891
880-29157-43	CS-43 (4.5')	Soluble	Solid	300.0	54891
880-29157-44	CS-44 (4.5')	Soluble	Solid	300.0	54891
880-29157-45	CS-45 (4.5')	Soluble	Solid	300.0	54891
880-29157-46	CS-46 (4.5')	Soluble	Solid	300.0	54891
880-29157-47	CS-47 (4.5')	Soluble	Solid	300.0	54891
880-29157-48	CS-48 (4.5')	Soluble	Solid	300.0	54891
MB 880-54891/1-A	Method Blank	Soluble	Solid	300.0	54891
LCS 880-54891/2-A	Lab Control Sample	Soluble	Solid	300.0	54891
LCSD 880-54891/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54891
880-29153-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	54891
880-29153-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	54891

Analysis Batch: 54916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-49	CS-49 (4.5')	Soluble	Solid	300.0	54896
880-29157-50	CS-50 (4.5')	Soluble	Solid	300.0	54896
880-29157-51	CS-51 (4.5')	Soluble	Solid	300.0	54896
880-29157-52	CS-52 (4.5')	Soluble	Solid	300.0	54896
880-29157-53	SW-1 (1')	Soluble	Solid	300.0	54896

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QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 54916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29157-54	SW-2 (3.5')	Soluble	Solid	300.0	54896
880-29157-55	SW-3 (3.5')	Soluble	Solid	300.0	54896
MB 880-54896/1-A	Method Blank	Soluble	Solid	300.0	54896
LCS 880-54896/2-A	Lab Control Sample	Soluble	Solid	300.0	54896
LCSD 880-54896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54896
880-29157-49 MS	CS-49 (4.5')	Soluble	Solid	300.0	54896
880-29157-49 MSD	CS-49 (4.5')	Soluble	Solid	300.0	54896

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-1 (1')

Lab Sample ID: 880-29157-1

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 04:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 16:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 22:55	CH	EET MID

Client Sample ID: CS-2 (1')

Lab Sample ID: 880-29157-2

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 05:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 17:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 23:11	CH	EET MID

Client Sample ID: CS-3 (1')

Lab Sample ID: 880-29157-3

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 17:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 23:17	CH	EET MID

Client Sample ID: CS-4 (1')

Lab Sample ID: 880-29157-4

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 05:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-4 (1')

Lab Sample ID: 880-29157-4

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 18:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 23:22	CH	EET MID

Client Sample ID: CS-5 (1')

Lab Sample ID: 880-29157-5

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 06:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 18:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 23:27	CH	EET MID

Client Sample ID: CS-6 (1')

Lab Sample ID: 880-29157-6

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 06:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 23:43	CH	EET MID

Client Sample ID: CS-7 (1')

Lab Sample ID: 880-29157-7

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 07:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 19:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-7 (1')

Lab Sample ID: 880-29157-7

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 23:49	CH	EET MID

Client Sample ID: CS-8 (1')

Lab Sample ID: 880-29157-8

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 07:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 19:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 23:54	CH	EET MID

Client Sample ID: CS-9 (1')

Lab Sample ID: 880-29157-9

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 08:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 20:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/06/23 23:59	CH	EET MID

Client Sample ID: CS-10 (1')

Lab Sample ID: 880-29157-10

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 08:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 20:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 00:05	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-11 (1')

Lab Sample ID: 880-29157-11

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 10:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 21:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 00:10	CH	EET MID

Client Sample ID: CS-12 (1')

Lab Sample ID: 880-29157-12

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

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	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 10:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 21:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 00:26	CH	EET MID

Client Sample ID: CS-13 (1')

Lab Sample ID: 880-29157-13

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 11:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 22:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 00:31	CH	EET MID

Client Sample ID: CS-14 (1')

Lab Sample ID: 880-29157-14

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 11:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-14 (1')

Lab Sample ID: 880-29157-14

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 22:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 00:47	CH	EET MID

Client Sample ID: CS-15 (1')

Lab Sample ID: 880-29157-15

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 22:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 00:53	CH	EET MID

Client Sample ID: CS-16 (1')

Lab Sample ID: 880-29157-16

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 23:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 00:58	CH	EET MID

Client Sample ID: CS-17 (1')

Lab Sample ID: 880-29157-17

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 23:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-17 (1')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 01:04	CH	EET MID

Client Sample ID: CS-18 (1')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 13:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/06/23 23:48	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 01:09	CH	EET MID

Client Sample ID: CS-19 (1')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/07/23 00:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 01:14	CH	EET MID

Client Sample ID: CS-20 (1')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54892	06/06/23 15:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.010 g	10 mL	54897	06/06/23 15:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/07/23 00:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54893	06/06/23 15:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54914	06/07/23 01:20	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-21 (1')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/06/23 23:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 16:33	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 19:49	CH	EET MID

Client Sample ID: CS-22 (1')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/06/23 23:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 17:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 20:05	CH	EET MID

Client Sample ID: CS-23 (1')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/06/23 23:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 17:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 20:10	CH	EET MID

Client Sample ID: CS-24 (1')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 00:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-24 (1')

Lab Sample ID: 880-29157-24

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 18:21	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 20:15	CH	EET MID

Client Sample ID: CS-25 (1')

Lab Sample ID: 880-29157-25

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 00:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 18:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 20:21	CH	EET MID

Client Sample ID: CS-26 (1')

Lab Sample ID: 880-29157-26

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 00:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 20:37	CH	EET MID

Client Sample ID: CS-27 (4.5')

Lab Sample ID: 880-29157-27

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 01:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 19:26	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-27 (4.5')

Date Collected: 06/02/23 00:00

Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 20:42	CH	EET MID

Client Sample ID: CS-28 (4.5')

Date Collected: 06/02/23 00:00

Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 01:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 19:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 20:47	CH	EET MID

Client Sample ID: CS-29 (4.5')

Date Collected: 06/02/23 00:00

Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 01:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 20:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	54913	06/06/23 20:53	CH	EET MID

Client Sample ID: CS-30 (4.5')

Date Collected: 06/02/23 00:00

Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 02:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 20:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	54913	06/06/23 20:58	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-31 (4.5')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 03:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 21:17	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54913	06/06/23 21:03	CH	EET MID

Client Sample ID: CS-32 (4.5')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 03:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 21:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 21:19	CH	EET MID

Client Sample ID: CS-33 (4.5')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 04:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 22:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 21:25	CH	EET MID

Client Sample ID: CS-34 (4.5')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 04:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-34 (4.5')

Lab Sample ID: 880-29157-34

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 22:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54913	06/06/23 21:41	CH	EET MID

Client Sample ID: CS-35 (4.5')

Lab Sample ID: 880-29157-35

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 04:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 22:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54913	06/06/23 21:46	CH	EET MID

Client Sample ID: CS-36 (4.5')

Lab Sample ID: 880-29157-36

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 05:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 23:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54913	06/06/23 21:51	CH	EET MID

Client Sample ID: CS-37 (4.5')

Lab Sample ID: 880-29157-37

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 05:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 23:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-37 (4.5')

Date Collected: 06/02/23 00:00

Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-37

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54913	06/06/23 21:57	CH	EET MID

Client Sample ID: CS-38 (4.5')

Date Collected: 06/02/23 00:00

Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-38

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 05:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/06/23 23:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 22:02	CH	EET MID

Client Sample ID: CS-39 (4.5')

Date Collected: 06/02/23 00:00

Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-39

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 06:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 00:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 22:07	CH	EET MID

Client Sample ID: CS-40 (4.5')

Date Collected: 06/02/23 00:00

Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54895	06/06/23 15:26	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54833	06/07/23 06:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/07/23 17:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54898	06/06/23 15:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 00:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54894	06/06/23 15:25	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54913	06/06/23 22:13	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-41 (4.5')

Lab Sample ID: 880-29157-41

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 13:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/07/23 03:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54891	06/06/23 16:50	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54915	06/06/23 21:44	CH	EET MID

Client Sample ID: CS-42 (4.5')

Lab Sample ID: 880-29157-42

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 13:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/07/23 04:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54891	06/06/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54915	06/06/23 22:00	CH	EET MID

Client Sample ID: CS-43 (4.5')

Lab Sample ID: 880-29157-43

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 13:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/07/23 04:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54891	06/06/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54915	06/06/23 22:06	CH	EET MID

Client Sample ID: CS-44 (4.5')

Lab Sample ID: 880-29157-44

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 14:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-44 (4.5')**Lab Sample ID: 880-29157-44****Date Collected: 06/02/23 00:00****Matrix: Solid****Date Received: 06/06/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/07/23 05:15	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54891	06/06/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54915	06/06/23 22:11	CH	EET MID

Client Sample ID: CS-45 (4.5')**Lab Sample ID: 880-29157-45****Date Collected: 06/02/23 00:00****Matrix: Solid****Date Received: 06/06/23 15:00**

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	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 14:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54829	06/07/23 04:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54891	06/06/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54915	06/06/23 22:17	CH	EET MID

Client Sample ID: CS-46 (4.5')**Lab Sample ID: 880-29157-46****Date Collected: 06/02/23 00:00****Matrix: Solid****Date Received: 06/06/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 14:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 01:12	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54891	06/06/23 16:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54915	06/06/23 22:22	CH	EET MID

Client Sample ID: CS-47 (4.5')**Lab Sample ID: 880-29157-47****Date Collected: 06/02/23 00:00****Matrix: Solid****Date Received: 06/06/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 15:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 02:21	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-47 (4.5')**Lab Sample ID: 880-29157-47****Date Collected: 06/02/23 00:00****Matrix: Solid****Date Received: 06/06/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	54891	06/06/23 16:50	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54915	06/06/23 22:28	CH	EET MID

Client Sample ID: CS-48 (4.5')**Lab Sample ID: 880-29157-48****Date Collected: 06/02/23 00:00****Matrix: Solid****Date Received: 06/06/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 15:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 02:43	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54891	06/06/23 16:50	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54915	06/06/23 22:33	CH	EET MID

Client Sample ID: CS-49 (4.5')**Lab Sample ID: 880-29157-49****Date Collected: 06/02/23 00:00****Matrix: Solid****Date Received: 06/06/23 15:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 15:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 03:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54896	06/06/23 15:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54916	06/06/23 23:17	CH	EET MID

Client Sample ID: CS-50 (4.5')**Lab Sample ID: 880-29157-50****Date Collected: 06/02/23 00:00****Matrix: Solid****Date Received: 06/06/23 15:00**

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	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 16:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 03:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54896	06/06/23 15:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54916	06/06/23 23:34	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: CS-51 (4.5')

Lab Sample ID: 880-29157-51

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 18:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 03:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54896	06/06/23 15:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54916	06/06/23 23:39	CH	EET MID

Client Sample ID: CS-52 (4.5')

Lab Sample ID: 880-29157-52

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 18:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 04:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54896	06/06/23 15:26	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	54916	06/06/23 23:45	CH	EET MID

Client Sample ID: SW-1 (1')

Lab Sample ID: 880-29157-53

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 18:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 04:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54896	06/06/23 15:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54916	06/06/23 23:50	CH	EET MID

Client Sample ID: SW-2 (3.5')

Lab Sample ID: 880-29157-54

Date Collected: 06/02/23 00:00

Matrix: Solid

Date Received: 06/06/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 19:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Client Sample ID: SW-2 (3.5')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 04:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54896	06/06/23 15:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54916	06/07/23 00:07	CH	EET MID

Client Sample ID: SW-3 (3.5')
Date Collected: 06/02/23 00:00
Date Received: 06/06/23 15:00

Lab Sample ID: 880-29157-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54945	06/07/23 09:05	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54944	06/07/23 19:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54956	06/08/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			54952	06/07/23 09:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54899	06/06/23 15:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54831	06/07/23 05:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54896	06/06/23 15:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	54916	06/07/23 00:12	CH	EET MID

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29157-1	CS-1 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-2	CS-2 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-3	CS-3 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-4	CS-4 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-5	CS-5 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-6	CS-6 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-7	CS-7 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-8	CS-8 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-9	CS-9 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-10	CS-10 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-11	CS-11 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-12	CS-12 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-13	CS-13 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-14	CS-14 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-15	CS-15 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-16	CS-16 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-17	CS-17 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-18	CS-18 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-19	CS-19 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-20	CS-20 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-21	CS-21 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-22	CS-22 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-23	CS-23 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-24	CS-24 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-25	CS-25 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-26	CS-26 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-27	CS-27 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-28	CS-28 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-29	CS-29 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-30	CS-30 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-31	CS-31 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-32	CS-32 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-33	CS-33 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-34	CS-34 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-35	CS-35 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-36	CS-36 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-37	CS-37 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-38	CS-38 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-39	CS-39 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-40	CS-40 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-41	CS-41 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-42	CS-42 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-43	CS-43 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-44	CS-44 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-45	CS-45 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-46	CS-46 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-47	CS-47 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-48	CS-48 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-49	CS-49 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-50	CS-50 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-51	CS-51 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-52	CS-52 (4.5')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-53	SW-1 (1')	Solid	06/02/23 00:00	06/06/23 15:00
880-29157-54	SW-2 (3.5')	Solid	06/02/23 00:00	06/06/23 15:00

Sample Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29157-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29157-55	SW-3 (3.5')	Solid	06/02/23 00:00	06/06/23 15:00

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Work Order No: 29157

Page 1 of 6

Project Manager	Conner Moehring	Bill to: (if different)	Grant Huckabee/Addison Guelker
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address	310 W Wall St Ste 500	Address	6101 Holiday Hill Road
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Texas 79707
Phone	432-813-6823	Email	GrantH@forl.com; addisong@forl.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ Spill ☐
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other ☐

Project Name	Denton 5 SWD	Turn Around	☐ Routine ☒ Rush	Due Date	24 Hrs	Parameters	BTX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Preservative Codes
Project Number	1154									None NO DI Water H ₂ O
Project Location	Lea County, New Mexico									Cool Cool MeOH Me
Sampler's Name	CRM									HCL HC HNO ₃ HN
PO #										H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT	Temp Blank: (Yes) No	Yes (No) No	Wet Ice: (Yes) No	Thermometer ID	Correction Factor					H ₃ PO ₄ HP
Received Intact:	(Yes) No									NaHSO ₄ NABIS
Cooler Custody Seals:	Yes No N/A									Na ₂ S ₂ O ₃ NaSO ₃
Sample Custody Seals:	Yes No N/A									Zn Acetate+NaOH Zn
Total Containers		Corrected Temperature								NaOH+Ascorbic Acid SAPC
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont				Sample Comments
CS-1 (1)	6 2 23		X		C	1	X	X	X	
CS-2 (1)	6 2 23		X		C	1	X	X	X	
CS-3 (1)	6 2 23		X		C	1	X	X	X	
CS-4 (1)	6 2 23		X		C	1	X	X	X	
CS-5 (1)	6 2 23		X		C	1	X	X	X	
CS-6 (1)	6 2 23		X		C	1	X	X	X	
CS-7 (1)	6 2 23		X		C	1	X	X	X	
CS-8 (1)	6 2 23		X		C	1	X	X	X	
CS-9 (1)	6 2 23		X		C	1	X	X	X	
CS-10 (1)	6 2 23		X		C	1	X	X	X	



Comments Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Carmona Mike</i>	6-10-23 1500	<i>[Signature]</i>	

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Work Order No: 29151

Page 2 of 6

Project Manager	Conner Moehring	Bill to (if different)	Grant Huckabay/Addison Guetler
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address	310 W Wall St Ste 500	Address	6101 Holiday Hill Road
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Texas 79707
Phone	432-813-6823	Email	GrantH@foi.com/addisonG@foi.com & addisonG@foi.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Perturb ☐	
State of Project:	
Reporting Level I ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Project Name	Denton 5 SWD	Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number	1154															None, NO	DI Water, H ₂ O
Project Location	Lea County, New Mexico	Due Date	24 Hrs													Cool, Cool	MeOH, Me
Sampler's Name	CRM															HCL, HC	HNO ₃ , HN
PO #																H ₂ SO ₄ , H ₂	NaOH, Na
SAMPLE RECEIPT	Temp Blank	Yes	No	Well Ice	Yes	No										H ₃ PO ₄ , HP	
Received Intact	Yes	No		Thermometer ID												NaHSO ₄ , NABIS	
Cooler Custody Seals	Yes	No	N/A	Correction Factor												Na ₂ S ₂ O ₃ , NaSO ₃	
Sample Custody Seals	Yes	No	N/A	Temperature Reading												Zn Acetate+NaOH, Zn	
Total Containers				Corrected Temperature												NaOH+Ascorbic Acid, SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
CS-11 (1)	6 2 23		X		C	1	X	X	X								
CS-12 (1)	6 2 23		X		C	1	X	X	X								
CS-13 (1)	6 2 23		X		C	1	X	X	X								
CS-14 (1)	6 2 23		X		C	1	X	X	X								
CS-15 (1)	6 2 23		X		C	1	X	X	X								
CS-16 (1)	6 2 23		X		C	1	X	X	X								
CS-17 (1)	6 2 23		X		C	1	X	X	X								
CS-18 (1)	6 2 23		X		C	1	X	X	X								
CS-19 (1)	6 2 23		X		C	1	X	X	X								
CS-20 (1)	6 2 23		X		C	1	X	X	X								

Comments Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by (Signature)		Date/Time	Received by (Signature)		Date/Time
		6-6-23			

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Work Order No: 26157

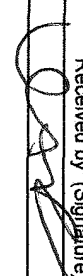
Page 3 of 6

Project Manager:	Conner Moehring	Bill to (if different):	Grant Huckabee/Addison Guelker
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Texas 79707
Phone:	432-813-6823	Email	GrantH@forl.com/addisong@forl.com & addisong@forl.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RC ☐ IJC ☐ IJC ☐ IJC
State of Project:	
Reporting Level II	☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables EDD	☐ ADAPT ☐ Other

Project Name	Denton 5 SWD	Turn Around	Prep. Code	ANALYSIS REQUEST												Preservative Codes	
Project Number	1154	☐ Routine ☒ Rush														None NO	DI Water H ₂ O
Project Location	Lea County, New Mexico	Due Date	24 Hrs													Cool Cool	MeOH Me
Sampler's Name	CRM															HCL HC	HNO ₃ HN
PO #:																H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice	Yes	No										H ₃ PO ₄ HP	
Received Intact:	Yes	No	Thermometer ID													NaHSO ₄ NABIS	
Cooler Custody Seals:	Yes	No	Correction Factor													Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals:	Yes	No	Temperature Reading													Zn Acetate+NaOH Zn	
Total Containers		Corrected Temperature														NaOH+Ascorbic Acid SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
CS-21 (1)	6 2 23		X		C	1	X	X	X	X							
CS-22 (1)	6 2 23		X		C	1	X	X	X	X							
CS-23 (1)	6 2 23		X		C	1	X	X	X	X							
CS-24 (1)	6 2 23		X		C	1	X	X	X	X							
CS-25 (1)	6 2 23		X		C	1	X	X	X	X							
CS-26 (1)	6 2 23		X		C	1	X	X	X	X							
CS-27 (4 5)	6 2 23		X		C	1	X	X	X	X							
CS-28 (4 5)	6 2 23		X		C	1	X	X	X	X							
CS-29 (4 5)	6 2 23		X		C	1	X	X	X	X							
CS-30 (4 5)	6 2 23		X		C	1	X	X	X	X							

Comments Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	6-6-23 1500		

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Project Manager	Conner Moehring	Bill to (if different)	Grant Huckabee/Addison Guetler
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address	310 W Wall St Ste 500	Address	6101 Holiday Hill Road
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Texas 79707
Phone	432-813-6823	Email	Granth@fort.com; addisong@fort.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Rowfields ☐ JRC ☐ Iperfund
State of Project:	
Reporting Level I	☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV
Deliverables	EDD ☐ ADAPT ☐ Other

Project Name	Denton 5 SWD	Turn Around	☐ Routine ☒ Rush	Due Date	24 Hrs	Parameters	ANALYSIS REQUEST										Preservative Codes	
Project Number	1154																None NO	DI Water H ₂ O
Project Location	Lea County, New Mexico																Cool Cool	MeOH Me
Sampler's Name	CRM																HCL HC	HNO ₃ HN
PO #																	H ₂ SO ₄ H ₂	NaOH Na
SAMPLE RECEIPT	Temp Blank	Yes No	Thermometer ID	Wet Ice	Yes No												H ₃ PO ₄ HP	
Received Inact	Yes No		Correction Factor														NaHSO ₄ NABIS	
Cooler Custody Seals	Yes No N/A		Temperature Reading														Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	Yes No N/A		Corrected Temperature														Zn Acetate+NaOH Zn	
Total Containers																	NaOH+Ascorbic Acid SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST										Sample Comments
CS-31 (4.5')	6.2.23		X		C	1	X	X	X								
CS-32 (4.5')	6.2.23		X		C	1	X	X	X								
CS-33 (4.5')	6.2.23		X		C	1	X	X	X								
CS-34 (4.5')	6.2.23		X		C	1	X	X	X								
CS-35 (4.5')	6.2.23		X		C	1	X	X	X								
CS-36 (4.5')	6.2.23		X		C	1	X	X	X								
CS-37 (4.5')	6.2.23		X		C	1	X	X	X								
CS-38 (4.5')	6.2.23		X		C	1	X	X	X								
CS-39 (4.5')	6.2.23		X		C	1	X	X	X								
CS-40 (4.5')	6.2.23		X		C	1	X	X	X								

Comments: Email results to Mike Carmona mcarmona@carmonarresources.com & Conner Moehring cmoehring@carmonarresources.com

Relinquished by (Signature)		Date/Time	Received by (Signature)		Date/Time
		6-6-23			
		1500			

Work Order No: 26157

Project Manager	Conner Moehring	Bill to (if different)	Grant Huckabay/Addison Guelker
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address	310 W Wall St Ste 500	Address	6101 Holiday Hill Road
City, State ZIP	Midland, TX 79701	City, State ZIP	Midland, Texas 79707
Phone	432-813-6823	Email	GrantH@fort.com/addisonG@fort.com & addisonG@fort.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

Work Order No: 29157

Page 5 of 6

Project Name		Denton 5 SWD		Turn Around		Pres. Code		ANALYSIS REQUEST										Preservative Codes									
Project Number	1154			☐ Routine	☒ Rush												None NO	DI Water H ₂ O									
Project Location	Lea County, New Mexico			Due Date	24 Hrs												Cool Cool	MeOH Me									
Sampler's Name	CRM																HCL HC	HNO ₃ HN									
PO #:																	H ₂ SO ₄ H ₂	NaOH Na									
SAMPLE RECEIPT				Temp Blank	Yes No	Well Ice	Yes No	Parameters										H ₃ PO ₄ HP									
Received Intact:				Yes No	Thermometer ID																						
Cooler Custody Seals:				Yes No	Correction Factor																						
Sample Custody Seals				Yes No	Temperature Reading																						
Total Containers				Corrected Temperature																							
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300.0										Sample Comments									
CS-41 (45)	6 2 23		X		C	1	X											X	X								
CS-42 (45)	6 2 23		X		C	1	X											X	X								
CS-43 (45)	6 2 23		X		C	1	X											X	X								
CS-44 (45)	6 2 23		X		C	1	X											X	X								
CS-45 (45)	6 2 23		X		C	1	X											X	X								
CS-46 (45)	6 2 23		X		C	1	X											X	X								
CS-47 (45)	6 2 23		X		C	1	X											X	X								
CS-48 (45)	6 2 23		X		C	1	X											X	X								
CS-49 (45)	6 2 23		X		C	1	X											X	X								
CS-50 (45)	6 2 23		X		C	1	X	X	X																		

Comments Email results to [Mike Carmona mcarmona@ccarmonaresources.com](mailto:Mike.Carmona@ccarmonaresources.com) & [Conner Moehring cmoehring@ccarmonaresources.com](mailto:Conner.Moehring@ccarmonaresources.com)

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	6-16-23 1500		

Project Manager	Conner Moehring	Bill to (if different)	Grant Huckabay/Addison Guelker
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address	310 W Wall St Ste 500	Address	6101 Holiday Hill Road
City, State Zip	Midland, TX 79701	City, State Zip	Midland, Texas 79707
Phone	432-813-6823	Email	GrantH@forl.com/addisonG@forl.com & addisonG@forl.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Rowfields ☐ RC ☐ perfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADaPT ☐ Other	

Work Order No: 29157

[illegible]

Comments Email results to [Mike Carmona mcarmona@carmonaresources.com](mailto:Mike.Carmona@carmonaresources.com) & [Conner Moehring cmoehring@carmonaresources.com](mailto:Conner.Moehring@carmonaresources.com)

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
			
	6-6-73 1500		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-29157-1

SDG Number: Lea County, New Mexico

Login Number: 29157

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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



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

June 09, 2023

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: DENTON 5 SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/08/23 8:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 53 (4.5') (H232924-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.48	124	2.00	21.0	
Toluene*	<0.050	0.050	06/08/2023	ND	2.46	123	2.00	20.9	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.40	120	2.00	19.4	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.29	122	6.00	18.1	
Total BTX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/08/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 54 (4.5') (H232924-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.48	124	2.00	21.0		
Toluene*	<0.050	0.050	06/08/2023	ND	2.46	123	2.00	20.9		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.40	120	2.00	19.4		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.29	122	6.00	18.1		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/08/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 55 (4.5') (H232924-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.48	124	2.00	21.0	
Toluene*	<0.050	0.050	06/08/2023	ND	2.46	123	2.00	20.9	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.40	120	2.00	19.4	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.29	122	6.00	18.1	
Total BTX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 56 (4.5') (H232924-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.48	124	2.00	21.0	
Toluene*	<0.050	0.050	06/08/2023	ND	2.46	123	2.00	20.9	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.40	120	2.00	19.4	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.29	122	6.00	18.1	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	06/08/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 57 (4.5') (H232924-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.48	124	2.00	21.0	
Toluene*	<0.050	0.050	06/08/2023	ND	2.46	123	2.00	20.9	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.40	120	2.00	19.4	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.29	122	6.00	18.1	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 58 (4.5') (H232924-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.48	124	2.00	21.0	
Toluene*	<0.050	0.050	06/08/2023	ND	2.46	123	2.00	20.9	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.40	120	2.00	19.4	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.29	122	6.00	18.1	
Total BTX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 59 (4.5') (H232924-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.48	124	2.00	21.0	
Toluene*	<0.050	0.050	06/08/2023	ND	2.46	123	2.00	20.9	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.40	120	2.00	19.4	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.29	122	6.00	18.1	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	06/08/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	138	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	75.3	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: DENTON 5 SWD
 Project Number: 1154
 Project Location: FASKEN OIL AND RANCH - LEA CO, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 60 (4.5') (H232924-08)

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	06/08/2023	ND	2.42	121	2.00	10.9		
Toluene*	<0.050	0.050	06/08/2023	ND	2.45	122	2.00	12.2		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.35	117	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.22	120	6.00	11.1		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	18.2	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 61 (4.5') (H232924-09)

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	06/08/2023	ND	2.42	121	2.00	10.9		
Toluene*	<0.050	0.050	06/08/2023	ND	2.45	122	2.00	12.2		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.35	117	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.22	120	6.00	11.1		
Total BTEx	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 62 (4.5') (H232924-10)

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	06/08/2023	ND	2.42	121	2.00	10.9	
Toluene*	<0.050	0.050	06/08/2023	ND	2.45	122	2.00	12.2	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.35	117	2.00	11.9	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.22	120	6.00	11.1	
Total BTEx	<0.300	0.300	06/08/2023	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	1280	16.0	06/08/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	46.7	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	56.9	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 63 (4.5') (H232924-11)

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	06/08/2023	ND	2.42	121	2.00	10.9	
Toluene*	<0.050	0.050	06/08/2023	ND	2.45	122	2.00	12.2	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.35	117	2.00	11.9	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.22	120	6.00	11.1	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/08/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	47.3	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	114	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 64 (4.5') (H232924-12)

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	06/08/2023	ND	2.42	121	2.00	10.9	
Toluene*	<0.050	0.050	06/08/2023	ND	2.45	122	2.00	12.2	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.35	117	2.00	11.9	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.22	120	6.00	11.1	
Total BTEx	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	1060	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 65 (4.5') (H232924-13)

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	06/08/2023	ND	2.42	121	2.00	10.9		
Toluene*	<0.050	0.050	06/08/2023	ND	2.45	122	2.00	12.2		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.35	117	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.22	120	6.00	11.1		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	38.5	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	38.7	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 66 (4.5') (H232924-14)

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	06/08/2023	ND	2.42	121	2.00	10.9		
Toluene*	<0.050	0.050	06/08/2023	ND	2.45	122	2.00	12.2		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.35	117	2.00	11.9		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.22	120	6.00	11.1		
Total BTEx	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	800	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 67 (4.5') (H232924-15)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEx	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	320	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 68 (4.5') (H232924-16)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEx	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 69 (4.5') (H232924-17)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 70 (4.5') (H232924-18)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 71 (4.5') (H232924-19)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEx	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	656	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 72 (4.5') (H232924-20)

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	06/08/2023	ND	2.22	111	2.00	7.64	
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/08/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	191	95.4	200	1.35	
DRO >C10-C28*	164	10.0	06/08/2023	ND	176	88.2	200	2.95	
EXT DRO >C28-C36	89.1	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 73 (4.5') (H232924-21)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/08/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	20.6	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 74 (4.5') (H232924-22)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 75 (4.5') (H232924-23)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
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 MIDLAND TX, 79701
 Fax To:

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 76 (4.5') (H232924-24)

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	06/08/2023	ND	2.22	111	2.00	7.64	
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3	
Total BTEx	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/08/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	40.9	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	48.9	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 77 (4.5') (H232924-25)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	238	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	106	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 78 (4.5') (H232924-26)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 79 (4.5') (H232924-27)

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	06/08/2023	ND	2.22	111	2.00	7.64	
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/08/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	87.4	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	39.6	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 80 (4.5') (H232924-28)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 81 (4.5') (H232924-29)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	115	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	57.4	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 82 (4.5') (H232924-30)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	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	544	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 83 (4.5') (H232924-31)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 84 (4.5') (H232924-32)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 85 (4.5') (H232924-33)

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	06/08/2023	ND	2.22	111	2.00	7.64		
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 86 (4.5') (H232924-34)

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	06/08/2023	ND	2.22	111	2.00	7.64	
Toluene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	9.34	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.31	115	2.00	10.3	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.91	115	6.00	11.3	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	06/08/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 87 (4.5') (H232924-35)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29	QR-03
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50	QR-03
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70	QR-03
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62	QR-03
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/08/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 88 (4.5') (H232924-36)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	06/08/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 89 (4.5') (H232924-37)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29	
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 90 (4.5') (H232924-38)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29	
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
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Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 91 (4.5') (H232924-39)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/08/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 92 (4.5') (H232924-40)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29	
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	06/08/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	165	82.4	200	4.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	176	88.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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 MIDLAND TX, 79701
 Fax To:

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 93 (4.5') (H232924-41)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29	
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	06/08/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	19.1	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 94 (4.5') (H232924-42)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29	
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	11.4	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
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 Fax To:

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 4 (1') (H232924-43)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEx	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Analytical Results For:

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Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 5 (1') (H232924-44)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29	
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62	
Total BTEX	<0.300	0.300	06/08/2023	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	256	16.0	06/08/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	63.1	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	35.4	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
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 Fax To:

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 6 (3.5') (H232924-45)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEx	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	128	16.0	06/08/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 7 (4.5') (H232924-46)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEx	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	06/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 8 (4.5') (H232924-47)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 9 (4.5') (H232924-48)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/08/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 10 (4.5') (H232924-49)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEX	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
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 MIDLAND TX, 79701
 Fax To:

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 11 (4.5') (H232924-50)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEx	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 12 (4.5') (H232924-51)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEx	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	06/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/07/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 13 (4.5') (H232924-52)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.19	110	2.00	2.29		
Toluene*	<0.050	0.050	06/08/2023	ND	2.29	114	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.37	118	2.00	2.70		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	7.00	117	6.00	2.62		
Total BTEx	<0.300	0.300	06/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/08/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H232924

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee/Addison Guelker
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@forl.com/addison@forl.com & addison@forl.com

Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RC ☐ Iperfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Denton 5 SWD		Turn Around		ANALYSIS REQUEST												Preservative Codes							
Project Number:	1154		☐ Routine	☒ Rush	Pres. Code												None: NO	DI Water: H ₂ O						
Project Location:	Lea County, New Mexico		Due Date:	24 Hrs													Cool: Cool	MeOH: Me						
Sampler's Name:	CRM																HCL: HC	HNO ₃ : HN						
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na						
SAMPLE RECEIPT					Parameters																			
Received Intact:	Temp Blank:	Yes ☒ No ☐	Yes ☐ No ☒	Wet Ice:	Yes ☒ No ☐																			
Cooler Custody Seals:		Yes ☒ No ☐ N/A ☐	Thermometer ID:																					
Sample Custody Seals:		Yes ☒ No ☐ N/A ☐	Correction Factor:																					
Total Containers:		Yes ☒ No ☐ N/A ☐	Temperature Reading:																					
			Corrected Temperature:																					
Sample Identification					Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-53 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-54 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-55 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-56 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-57 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-58 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-59 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-60 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-61 (4.5)					6/7/2023		X		C	1	X	X	X											
CS-62 (4.5)					6/7/2023		X		C	1	X	X	X											

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time
<u>Michael H. H.</u>		6-8-23 0805	<u>Carmona Resources</u>		

Chain of Custody

Work Order No: 1833924

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabee/Addison Guelker
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-8823	Email:	Granhh@forl.com/addisong@forl.com & addisong@forl.com

Page <u>2</u> of <u>6</u>	
Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RC ☐ Inertund ☐	State of Project:
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	Denton 5 SWD		Turn Around		ANALYSIS REQUEST												Preservative Codes				
Project Number:	1154		☐ Routine ☒ Rush														None: NO DI Water: H ₂ O				
Project Location:	Lea County, New Mexico		Due Date:		24 Hrs														Cool: Cool MeOH: Me		
Sampler's Name:	CRM																		HCL: HC HNO ₃ : HN		
PO #:																			H ₂ SO ₄ : H ₂ NaOH: Na		
SAMPLE RECEIPT				Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐	Parameters												H ₃ PO ₄ : HP	
Received In tact:	Yes ☒ No ☐	Thermometer ID:															NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:															Na ₂ S ₂ O ₅ : NaSO ₃				
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:															Zn Acetate+NaOH: Zn				
Total Containers:			Corrected Temperature:														NaOH+Ascorbic Acid: SAPC				
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
CS-63 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-64 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-65 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-66 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-67 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-68 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-69 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-70 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-71 (4.5)	6/7/2023		X		C	1	X	X	X												
CS-72 (4.5)	6/7/2023		X		C	1	X	X	X												

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time
<u>Handwritten Signature</u>		6-8-23 0805	<u>Handwritten Signature</u>		

Work Order No.:

4232934

Page 3 of 6

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADAPT ☐ Other:

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Chain of Custody

Work Order No: 4232924

Project Manager:	Conner Moehring	Bill to: (if different):	Grant Huckabay/Addison Guetker
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@forl.com/addison@forl.com & addison@forl.com

Page 4 of 6	
Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RC ☐ Iperfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Denton 5 SWD		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	1154		☐ Routine	☒ Rush														None: NO	DI Water: H ₂ O	
Project Location:	Lea County, New Mexico		Due Date:	24 Hrs													Cool: Cool	MeOH: Me		
Sampler's Name:	CRM															HCL: HC	HNO ₃ : HN			
PO #:															H ₂ SO ₄ : H ₂	NaOH: Na				
SAMPLE RECEIPT			Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐	Parameters												H ₃ PO ₄ : HP	
Received Intact:	Yes ☒ No ☐	Thermometer ID:													BTEX 8021B					
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:													TPH 8015M (GRO + DRO + MRO)					
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:													Chloride 4500					
Total Containers:	Yes ☒ No ☐	Corrected Temperature:																		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
CS-83 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-84 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-85 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-86 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-87 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-88 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-89 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-90 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-91 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					
CS-92 (4.5)	6/7/2023		X		C	1	X	X	X	X	X	X	X	X	X					

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>Shunt Hick</u>	<u>6-8-23 08:05</u>	<u>Shunt Hick</u>	

Chain of Custody

Work Order No:

H232924

Page 5 of 6

Project Manager:	Conner Moehring	Bill to: (if different)	Grant Huckabay/Addison Guetker
Company Name:	Carmona Resources	Company Name:	Fasken Oil and Ranch
Address:	310 W Wall St Ste 500	Address:	6101 Holiday Hill Road
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Texas 79707
Phone:	432-813-6823	Email:	GrantH@ford.com/addisona@ford.com & addisona@ford.com
Project Name:		Project #	
		Project #	

Work Order Comments										
Program:	UST/PST	☐ RRP	☐ Brownfields	☐ RC	☐ Superfund	☐	☐	☐	☐	
State of Project:										
Reporting Level	II	☐	Level III	☐	ST/UST	☐	RRP	☐	Level IV	☐
Deliverables:	EDD	☐	Adapt	☐	Other:					

[illegible]

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by: (Signature)

Date/Time

Received by (Signature)

Date/Time

Chain of Custody

Work Order No. _____

4232929

Page 6 of 6[illegible]



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

June 09, 2023

MIKE CARMONA

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: DENTON 5 SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/08/23 15:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 2 (1.25') (H232948-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEX	<0.300	0.300	06/09/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 62.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 3 (1.25') (H232948-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813		
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902		
Total BTEX	<0.300	0.300	06/09/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 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
 MIKE CARMONA
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 9 (1.25') (H232948-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813		
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902		
Total BTEX	<0.300	0.300	06/09/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 10 (1.25') (H232948-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEx	<0.300	0.300	06/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 12 (1.25') (H232948-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEx	<0.300	0.300	06/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 16 (1.25') (H232948-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813		
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902		
Total BTEX	<0.300	0.300	06/09/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 17 (1.25') (H232948-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEX	<0.300	0.300	06/09/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	82.7	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	63.5	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 63.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 18 (1.25') (H232948-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813		
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902		
Total BTEx	<0.300	0.300	06/09/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: CS - 19 (1.25') (H232948-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813		
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902		
Total BTEx	<0.300	0.300	06/09/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	DENTON 5 SWD	Sampling Condition:	Cool & Intact
Project Number:	1154	Sample Received By:	Tamara Oldaker
Project Location:	FASKEN OIL AND RANCH - LEA CO, NM		

Sample ID: SW - 1 (1.0') (H232948-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813		
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902		
Total BTEx	<0.300	0.300	06/09/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/09/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 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

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

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

4232948

Page 1 of 1

Project Manager:		Mike Carmona		Bill to: (if different)		Green Truckery/ Addison Ave	
Company Name:		Carmona Resources		Company Name:		Foster Oil and Ranch	
Address:		310 W Wall St Ste 500		Address:		6101 Holiday Hill Road	
City, State ZIP:		Midland, TX 79701		City, State ZIP:		Midland, Texas 79707	
Phone:		(432) 813-1992		Email:		hrunthof@aol.com/addisong@aol.com	
Project Name:		Denton S SWD		Turn Around		ANALYSIS REQUEST	
Project Number:		1154		☐ Routine ☒ Rush			
Project Location:		Lee County, New Mexico		Due Date:			
Sampler's Name:		M/M		Wet Ice:		Yes ☒ No ☐	
PO #:				Thermometer ID:		113	
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Correction Factor:	
Received intact:		Yes ☒ No ☐		M/A		-0.6°C	
Cooler Custody Seals:		Yes ☒ No ☐		M/A		-2.8°C	
Sample Custody Seals:		Yes ☒ No ☐		M/A		-2.2°C	
Total Containers:				Corrected Temperature:			
Sample Identification		Date		Time		Soil	
(S-2 (1.2.51)		6/8/23				X	
(S-3 (1.2.51)		6/8/23				X	
(S-4 (1.2.51)		6/8/23				X	
(S-5 (1.2.51)		6/8/23				X	
(S-6 (1.2.51)		6/8/23				X	
(S-7 (1.2.51)		6/8/23				X	
(S-8 (1.2.51)		6/8/23				X	
(S-9 (1.2.51)		6/8/23				X	
(S-10 (1.2.51)		6/8/23				X	
(S-11 (1.2.51)		6/8/23				X	
(S-12 (1.2.51)		6/8/23				X	
(S-13 (1.2.51)		6/8/23				X	
(S-14 (1.2.51)		6/8/23				X	
(S-15 (1.2.51)		6/8/23				X	
(S-16 (1.2.51)		6/8/23				X	
(S-17 (1.2.51)		6/8/23				X	
(S-18 (1.2.51)		6/8/23				X	
(S-19 (1.2.51)		6/8/23				X	
(S-20 (1.2.51)		6/8/23				X	
SW-1 (1.01)		6/8/23				X	

Comments:

Email results to mcarmona@carmonaresources.com + (moehring@carmonaresources.com

Relinquished by: (Signature)		Date/Time	
Moehring Mike		6-8-23 1518	
Received by: (Signature)		Date/Time	
Moehring Mike		6-8-23 1518	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Carmona
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 6/19/2023 3:29:23 PM Revision 1

JOB DESCRIPTION

Denton 5 SWD
SDG NUMBER Lea County, New Mexico

JOB NUMBER

880-29362-1

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



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

Generated
6/19/2023 3:29:23 PM
Revision 1

Client: Carmona Resources
Project/Site: Denton 5 SWD

Laboratory Job ID: 880-29362-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Job ID: 880-29362-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-29362-1
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REVISION

The report being provided is a revision of the original report sent on 6/13/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

Receipt
The samples were received on 6/12/2023 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.1°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-16 (1.5') (880-29362-1) and CS-17 (1.5') (880-29362-2).

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-55253/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-55257 and analytical batch 880-55361 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Client Sample ID: CS-16 (1.5')

Lab Sample ID: 880-29362-1

Date Collected: 06/09/23 00:00

Matrix: Solid

Date Received: 06/12/23 09:34

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		06/12/23 12:50	06/13/23 04:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/12/23 12:50	06/13/23 04:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/12/23 12:50	06/13/23 04:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/12/23 12:50	06/13/23 04:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/12/23 12:50	06/13/23 04:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/12/23 12:50	06/13/23 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/12/23 12:50	06/13/23 04:29	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/12/23 12:50	06/13/23 04:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/13/23 11:33	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			06/13/23 17:15	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		06/12/23 10:46	06/13/23 13:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 13:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	06/12/23 10:46	06/13/23 13:51	1
o-Terphenyl	111		70 - 130	06/12/23 10:46	06/13/23 13:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.9	F1	4.96		mg/Kg			06/13/23 03:38	1

Client Sample ID: CS-17 (1.5')

Lab Sample ID: 880-29362-2

Date Collected: 06/09/23 00:00

Matrix: Solid

Date Received: 06/12/23 09:34

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		06/12/23 12:50	06/13/23 04:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/12/23 12:50	06/13/23 04:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/12/23 12:50	06/13/23 04:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/12/23 12:50	06/13/23 04:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/12/23 12:50	06/13/23 04:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/12/23 12:50	06/13/23 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	06/12/23 12:50	06/13/23 04:50	1
1,4-Difluorobenzene (Surr)	111		70 - 130	06/12/23 12:50	06/13/23 04:50	1

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Client Sample ID: CS-17 (1.5')

Lab Sample ID: 880-29362-2

Date Collected: 06/09/23 00:00

Matrix: Solid

Date Received: 06/12/23 09:34

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/13/23 11:33	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			06/13/23 17:15	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		06/12/23 10:46	06/13/23 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				06/12/23 10:46	06/13/23 14:32	1
o-Terphenyl	110		70 - 130				06/12/23 10:46	06/13/23 14:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		4.99		mg/Kg			06/13/23 03:55	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-29238-A-1-D MS	Matrix Spike	98	97
880-29238-A-1-E MSD	Matrix Spike Duplicate	94	98
880-29362-1	CS-16 (1.5')	90	103
880-29362-2	CS-17 (1.5')	95	111
LCS 880-55036/1-A	Lab Control Sample	93	103
LCSD 880-55036/2-A	Lab Control Sample Dup	101	96
MB 880-55036/5-A	Method Blank	88	124
MB 880-55246/5-A	Method Blank	82	115
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29362-1	CS-16 (1.5')	94	111
880-29362-2	CS-17 (1.5')	97	110
890-4807-A-1-D MS	Matrix Spike	108	119
890-4807-A-1-E MSD	Matrix Spike Duplicate	108	118
LCS 880-55253/2-A	Lab Control Sample	100	119
LCSD 880-55253/3-A	Lab Control Sample Dup	97	113
MB 880-55253/1-A	Method Blank	114	146 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-55036/5-A

Matrix: Solid

Analysis Batch: 55244

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/08/23 12:50	06/13/23 01:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/08/23 12:50	06/13/23 01:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/08/23 12:50	06/13/23 01:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/08/23 12:50	06/13/23 01:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/08/23 12:50	06/13/23 01:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/08/23 12:50	06/13/23 01:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	06/08/23 12:50	06/13/23 01:58	1
1,4-Difluorobenzene (Surr)	124		70 - 130	06/08/23 12:50	06/13/23 01:58	1

Lab Sample ID: LCS 880-55036/1-A

Matrix: Solid

Analysis Batch: 55244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1174		mg/Kg		117	70 - 130
Toluene	0.100	0.1153		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.08959		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1843		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09010		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-55036/2-A

Matrix: Solid

Analysis Batch: 55244

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1182		mg/Kg		118	70 - 130	1	35
Toluene	0.100	0.1222		mg/Kg		122	70 - 130	6	35
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2058		mg/Kg		103	70 - 130	11	35
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-29238-A-1-D MS

Matrix: Solid

Analysis Batch: 55244

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.1201		mg/Kg		119	70 - 130
Toluene	<0.00201	U	0.101	0.1242		mg/Kg		123	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-29238-A-1-D MS

Matrix: Solid

Analysis Batch: 55244

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.09435		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1925		mg/Kg		95	70 - 130
o-Xylene	<0.00201	U	0.101	0.09510		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-29238-A-1-E MSD

Matrix: Solid

Analysis Batch: 55244

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 55036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0996	0.1158		mg/Kg		116	70 - 130	4	35
Toluene	<0.00201	U	0.0996	0.1135		mg/Kg		114	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.0996	0.08527		mg/Kg		86	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1784		mg/Kg		90	70 - 130	8	35
o-Xylene	<0.00201	U	0.0996	0.08836		mg/Kg		89	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-55246/5-A

Matrix: Solid

Analysis Batch: 55244

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/23 08:57	06/12/23 14:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/23 08:57	06/12/23 14:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/23 08:57	06/12/23 14:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/23 08:57	06/12/23 14:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/23 08:57	06/12/23 14:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/23 08:57	06/12/23 14:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	06/12/23 08:57	06/12/23 14:03	1
1,4-Difluorobenzene (Surr)	115		70 - 130	06/12/23 08:57	06/12/23 14:03	1

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

Lab Sample ID: MB 880-55253/1-A

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 09:46	1

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-55253/1-A

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 09:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 09:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				06/12/23 10:46	06/13/23 09:46	1
o-Terphenyl	146	S1+	70 - 130				06/12/23 10:46	06/13/23 09:46	1

Lab Sample ID: LCS 880-55253/2-A

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	900.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1169		mg/Kg		117	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	100		70 - 130				
o-Terphenyl	119		70 - 130				

Lab Sample ID: LCSD 880-55253/3-A

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55253

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	950.4		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1090		mg/Kg		109	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 890-4807-A-1-D MS

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1227		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	874.4		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	119		70 - 130						

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 890-4807-A-1-E MSD

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 55253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1205		mg/Kg		118	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	867.7		mg/Kg		83	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	118		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55257/1-A

Matrix: Solid

Analysis Batch: 55361

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/13/23 03:21	1

Lab Sample ID: LCS 880-55257/2-A

Matrix: Solid

Analysis Batch: 55361

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.7		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-55257/3-A

Matrix: Solid

Analysis Batch: 55361

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	261.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-29362-1 MS

Matrix: Solid

Analysis Batch: 55361

Client Sample ID: CS-16 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	23.9	F1	248	300.4	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-29362-1 MSD

Matrix: Solid

Analysis Batch: 55361

Client Sample ID: CS-16 (1.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23.9	F1	248	300.8	F1	mg/Kg		112	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 55036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29362-1	CS-16 (1.5')	Total/NA	Solid	5035	
880-29362-2	CS-17 (1.5')	Total/NA	Solid	5035	
MB 880-55036/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55036/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55036/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-29238-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-29238-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 55244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29362-1	CS-16 (1.5')	Total/NA	Solid	8021B	55036
880-29362-2	CS-17 (1.5')	Total/NA	Solid	8021B	55036
MB 880-55036/5-A	Method Blank	Total/NA	Solid	8021B	55036
MB 880-55246/5-A	Method Blank	Total/NA	Solid	8021B	55246
LCS 880-55036/1-A	Lab Control Sample	Total/NA	Solid	8021B	55036
LCSD 880-55036/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55036
880-29238-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	55036
880-29238-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	55036

Prep Batch: 55246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55246/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 55392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29362-1	CS-16 (1.5')	Total/NA	Solid	Total BTEX	
880-29362-2	CS-17 (1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 55253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29362-1	CS-16 (1.5')	Total/NA	Solid	8015NM Prep	
880-29362-2	CS-17 (1.5')	Total/NA	Solid	8015NM Prep	
MB 880-55253/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55253/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4807-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4807-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29362-1	CS-16 (1.5')	Total/NA	Solid	8015B NM	55253
880-29362-2	CS-17 (1.5')	Total/NA	Solid	8015B NM	55253
MB 880-55253/1-A	Method Blank	Total/NA	Solid	8015B NM	55253
LCS 880-55253/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55253
LCSD 880-55253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55253
890-4807-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	55253
890-4807-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	55253

Eurofins Midland

QC Association Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 55451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29362-1	CS-16 (1.5')	Total/NA	Solid	8015 NM	
880-29362-2	CS-17 (1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 55257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29362-1	CS-16 (1.5')	Soluble	Solid	DI Leach	
880-29362-2	CS-17 (1.5')	Soluble	Solid	DI Leach	
MB 880-55257/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55257/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55257/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29362-1 MS	CS-16 (1.5')	Soluble	Solid	DI Leach	
880-29362-1 MSD	CS-16 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 55361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29362-1	CS-16 (1.5')	Soluble	Solid	300.0	55257
880-29362-2	CS-17 (1.5')	Soluble	Solid	300.0	55257
MB 880-55257/1-A	Method Blank	Soluble	Solid	300.0	55257
LCS 880-55257/2-A	Lab Control Sample	Soluble	Solid	300.0	55257
LCSD 880-55257/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55257
880-29362-1 MS	CS-16 (1.5')	Soluble	Solid	300.0	55257
880-29362-1 MSD	CS-16 (1.5')	Soluble	Solid	300.0	55257

Lab Chronicle

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Client Sample ID: CS-16 (1.5')
Date Collected: 06/09/23 00:00
Date Received: 06/12/23 09:34

Lab Sample ID: 880-29362-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	55036	06/12/23 12:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55244	06/13/23 04:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55392	06/13/23 11:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55451	06/13/23 17:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55253	06/12/23 10:46	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55372	06/13/23 13:51	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	55257	06/12/23 12:15	KS	EET MID
Soluble	Analysis	300.0		1			55361	06/13/23 03:38	CH	EET MID

Client Sample ID: CS-17 (1.5')
Date Collected: 06/09/23 00:00
Date Received: 06/12/23 09:34

Lab Sample ID: 880-29362-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	55036	06/12/23 12:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55244	06/13/23 04:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55392	06/13/23 11:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55451	06/13/23 17:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55253	06/12/23 10:46	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55372	06/13/23 14:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	55257	06/12/23 12:15	KS	EET MID
Soluble	Analysis	300.0		1			55361	06/13/23 03:55	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Carmona Resources
Project/Site: Denton 5 SWD

Job ID: 880-29362-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29362-1	CS-16 (1.5')	Solid	06/09/23 00:00	06/12/23 09:34
880-29362-2	CS-17 (1.5')	Solid	06/09/23 00:00	06/12/23 09:34

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

Project Manager	Conner Moehring	Bill to: (if different)	Grant Huckabay/Addison Guetler
Company Name	Carmona Resources	Company Name	Fasken Oil and Ranch
Address	310 W Wall St Ste 500	Address	6101 Holiday Hill Road
City, State ZIP	Midland TX 79701	City, State ZIP	Midland, Texas 79707
Phone	432-813-6823	Email	GrantH@ford.com/addisong@ford.com & addisong@ford.com

Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

[illegible]

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com & Conner Moehring cmoehring@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
<i>Anna Choi</i>	9/2 6-12-23 934	<i>[Signature]</i>	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-29362-1

SDG Number: Lea County, New Mexico

Login Number: 29362

List Number: 1

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

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	

APPENDIX F

CARMONA RESOURCES



From: Addison Guelker
Sent: Tuesday, June 6, 2023 5:18 PM
To: Conner Moehring
Cc: Mike Carmona
Subject: Fwd: Fasken - Denton 5 SWD - Soil Profile and SLO Seed Mix

We are good to use the loamy seed mixture. See below email.

Sent from my iPhone

Begin forwarded message:

From: "Griffin, Becky R." <bgriffin@slo.state.nm.us>
Date: June 5, 2023 at 3:54:26 PM CDT
To: Addison Guelker <addisong@forl.com>
Cc: "Knight, Tami C." <tknight@slo.state.nm.us>, Grant Huckabay <granth@forl.com>
Subject: RE: Fasken - Denton 5 SWD - Soil Profile and SLO Seed Mix

Hi Addison,

Yes, the NMSLO loamy seed mixture is approved to reseed the Denton #5 SWD.

Becky

From: Addison Guelker <addisong@forl.com>
Sent: Monday, June 5, 2023 12:58 PM
To: Griffin, Becky R. <bgriffin@slo.state.nm.us>
Cc: Knight, Tami C. <tknight@slo.state.nm.us>; Grant Huckabay <granth@forl.com>
Subject: [EXTERNAL] Fasken - Denton 5 SWD - Soil Profile and SLO Seed Mix

Becky,

Can you tell us what seed mixture we need to use for the Denton #5 SWD? We used the SLO loamy seed mixture on the Morton Field Reclamation, and had some left over. With this site, the loamy soil is very similar to the Morton Field, so would help us out if we could use the same mixture.

Thanks,



Addison Guelker
Environmental Analyst
Bus: 432-687-1777

NMSLO Seed Mix

Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		18.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

6/23/2023
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

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

Date(s) aerial images were photographed: Feb 5, 2021—Feb 8, 2021

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Kb	Kimbrough loam, 0 to 1 percent slopes	0.5	33.2%
St	Stegall loam, 0 to 1 percent slopes	1.1	66.8%
Totals for Area of Interest		1.6	100.0%

Map Unit Description: Stegall loam, 0 to 1 percent slopes---Lea County, New Mexico

Lea County, New Mexico

St—Stegall loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1idyr

Elevation: 2,500 to 5,300 feet

Mean annual precipitation: 16 to 21 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Stegall and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Stegall

Setting

Landform: Plains

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Loamy eolian deposits from the blackwater draw formation of pleistocene age

Typical profile

Ap - 0 to 8 inches: loam

Bt - 8 to 28 inches: clay loam

Bkkm - 28 to 38 inches: cemented material

BCkk - 38 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 20 to 36 inches to petrocalcic

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Map Unit Description: Stegall loam, 0 to 1 percent slopes---Lea County, New Mexico

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ
Hydric soil rating: No

Minor Components

Kimberson

Percent of map unit: 5 percent
Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Friona

Percent of map unit: 3 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077CY022TX - Deep Hardland 16-21" PZ
Hydric soil rating: No

Slaughter

Percent of map unit: 2 percent
Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

Map Unit Description: Kimbrough loam, 0 to 1 percent slopes---Lea County, New Mexico

Lea County, New Mexico

Kb—Kimbrough loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tw44

Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: loam

Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material

Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Map Unit Description: Kimbrough loam, 0 to 1 percent slopes---Lea County, New Mexico

Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Minor Components

Eunice

Percent of map unit: 6 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Spraberry

Percent of map unit: 5 percent
Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

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 306299

QUESTIONS

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID:
	151416
	Action Number:
	306299
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nSAP0127670627
Incident Name	NSAP0127670627 DENTON SWD #005 @ 30-025-05226
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-05226] DENTON SWD #005

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DENTON SWD #005
Date Release Discovered	10/03/2001
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Flow Line - Injection Produced Water Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
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)	Historical happened before Fasken was the operator. Do not know anything about this spill except what was found on the OCD portal

District I

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District III

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

District IV

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

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

QUESTIONS, Page 2

Action 306299

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID:	151416
	Action Number:	306299
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Nature and Volume of Release (continued)**

Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Addison Long Email: addisonl@forl.com Date: 01/22/2024
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QUESTIONS, Page 3

Action 306299

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID:	151416
	Action Number:	306299
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	Yes
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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	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	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8015
GRO+DRO (EPA SW-846 Method 8015M)	8015
BTEX (EPA SW-846 Method 8021B or 8260B)	8021
Benzene (EPA SW-846 Method 8021B or 8260B)	8021

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	05/24/2023
On what date will (or did) the final sampling or liner inspection occur	06/05/2023
On what date will (or was) the remediation complete(d)	06/23/2023
What is the estimated surface area (in square feet) that will be reclaimed	59950
What is the estimated volume (in cubic yards) that will be reclaimed	5060
What is the estimated surface area (in square feet) that will be remediated	3850
What is the estimated volume (in cubic yards) that will be remediated	5060

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 306299

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID:	151416
	Action Number:	306299
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	GANDY MARLEY LANDFARM/LANDFILL [FEEM0112338393]
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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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: Addison Long Email: addisonl@forl.com Date: 01/22/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 306299

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 306299
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 306299

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 306299
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	306893
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/02/2023
What was the (estimated) number of samples that were to be gathered	107
What was the sampling surface area in square feet	37000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	38850
What was the total volume (cubic yards) remediated	5060
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	59950
What was the total volume (in cubic yards) reclaimed	5060
Summarize any additional remediation activities not included by answers (above)	Remediated this historical spill along with a few others before reclaiming the site.

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

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I hereby agree and sign off to the above statement	Name: Addison Long Email: addisonl@forl.com Date: 01/22/2024
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QUESTIONS, Page 7

Action 306299

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID:	151416
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	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	59950
What was the total volume of replacement material (in cubic yards) for this site	5060

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	06/23/2023

Summarize any additional reclamation activities not included by answers (above)	N/A
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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I hereby agree and sign off to the above statement	Name: Addison Long Email: addisonl@forl.com Date: 01/22/2024
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QUESTIONS, Page 8

Action 306299

QUESTIONS (continued)

Operator: FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID: 151416
	Action Number: 306299
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 306299

CONDITIONS

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	Action Number: 306299
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/13/2024