

April 23, 2025

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

Re: Closure Request Firethorn CTB

Incident Number NAPP2503441044

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the Firethorn CTB (Site) in Unit C, Section 04, Township 26 South, Range 36 East, in Lea County, New Mexico (Figure 1). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a release of crude oil, which impacted the lined secondary containment as well as just beyond the containment walls at the Site. Based on field observations, field screening activities, and laboratory analytical results, Matador is submitting this *Closure Request* and requesting closure for Incident Number NAPP2503441044.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Lea County, New Mexico (32.07774°, -103.27376°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 02, 2025, a pipeline ruptured due to flowback operations and fluid from the release impacted a lined secondary containment at the Site. The pipeline rupture resulted in the release of approximately 14 barrels (bbls) of crude oil; 2 bbls of crude oil were recovered via vacuum truck. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 17, 2025. The release was assigned Incident Number NAPP2503441044. A 48-hour advance notice of a liner inspection was provided via email to the NMOCD office on February 12, 2025. A liner integrity inspection was conducted by Ensolum personnel on February 14, 2025, and the liner was determined to be insufficient to contain the release in question. The Form C-141 can be referenced within the NMOCD Incident Portal.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

According to the New Mexico Office of the State Engineer (NMOSE), the closest permitted groundwater well with depth to groundwater data is CP 01952 POD1, located approximately 328 feet east of the

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com



release area. CP 01952 POD1 was a monitoring well drilled to establish depth to groundwater at the Site. The well had a reported depth to groundwater greater than 101 feet below ground surface (bgs) and a total depth of 101 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 479 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On February 07, 2025, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ensolum personnel mapped the release extent and collected two lateral delineation soil samples (SS02 and SS04) on the south and north sides of the release extent, respectively, at ground surface and 1-foot bgs. On February 14, 2025, Ensolum personnel completed a liner integrity inspection, and four holes were identified in the lined secondary containment. Two additional lateral delineation samples (SS01 and SS03) were collected on the east and west sides of the release extent, respectively, at ground surface and 1-foot bgs to verify the lateral extent of impacted soil. Ensolum personnel advanced two boreholes (BH01 and BH02) via hand auger to a depth of 5 feet and 4 feet bgs, respectively, within the release extent to verify the vertical extent of impacted soil. Soil from the lateral delineation samples (SS02 and SS04) were field screened for TPH utilizing a calibrated PetroFLAG® soil analyzer system and chloride using Hach® chloride QuanTab® test strips. Soil from the additional lateral delineation soil samples (SS01 and SS03) and from vertical delineation soil samples (BH01 and BH02) were field screened for volatile organic compounds (VOCs) utilizing a calibrated Photoionization Detector (PID) and chloride using Hach® chloride QuanTab® test strips.

Ensolum personnel returned to the Site on February 20, 2025, to advance two boreholes (BH03 and BH03) via hand auger to a depth of 4 feet bgs in borehole BH03 and to a depth of 1-foot bgs in borehole BH04; borehole BH04 was advanced inside the lined secondary containment. On February 25, 2025, Ensolum personnel advanced three additional boreholes inside the lined secondary containment via hand auger to a depth of 2 feet bgs in borehole BH05 and 1-foot bgs in boreholes BH06 and BH07. Soil from borehole samples BH03 through BH07 were field screened for TPH utilizing a calibrated PetroFLAG® soil analyzer system and chloride using Hach® chloride QuanTab® test strips.



The delineation soil sample locations are depicted on Figure 2. Lithologic Sample Logs are included as Appendix B. Photographs were taken during the liner integrity inspection and during soil sampling activities and a photographic log is included in Appendix C.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS04), collected around the release extent, were compliant with the Site Closure criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results from delineation boreholes BH01 and BH02 collected from the on-pad release extent exceeded the Site Closure Criteria at ground surface but were in compliance with the Site Closure Criteria and strictest Closure Criteria at a terminal depth of 1-foot bgs. Borehole BH03 collected from the release area on the north side of the lined secondary containment was in compliance with the Site Closure Criteria at ground surface and with the strictest Closure Criteria at a terminal depth of 1-foot bgs. Boreholes (BH04 through BH07) collected from inside the lined secondary containment, were all in compliance with the Site Closure Criteria at ground surface and with the strictest Closure Criteria at a terminal depth of 1-foot bgs. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Appendix D.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

From March 25 through March 28, 2025, impacted soil was excavated via hydrovac from the release extent outside of containment as indicated by visible staining and delineation soil sampling results. The excavation occurred on the north, west, and south sides of the lined secondary tank containment and around associated production equipment. To direct excavation activities, Ensolum personnel screened soil for chloride and TPH. On March 26, 2025, one additional lateral delineation soil sample (SS01A) was collected at ground surface.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor of the scrape. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS15) were collected from the floor of the excavation at depths ranging from 0.5 feet to 1-foot bgs. One confirmation sidewall soil sample (SW01) was collected from the 1-foot excavation area on the south side of the containment wall. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 2,829 square feet. A total of approximately 105 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.



LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil sample SS01A collected at ground surface was in compliance with the Site Closure Criteria and with the strictest Closure Criteria. Laboratory analytical results for excavation floor samples (FS01 through FS15), collected from the floor of the release extent, were compliant with the Site Closure criteria and with the strictest Closure Criteria per NMOCD Table I at depths ranging from ground surface to 1-foot bgs. Laboratory analytical results from confirmation sidewall soil sample SW01, collected from ground surface to 1-foot bgs, was in compliance with the Site Closure Criteria and with the strictest Closure Criteria. Laboratory analytical results are summarized in Table 2 and the complete laboratory analytical report is included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 2025 release of crude oil at the Site. A liner integrity inspection was performed and vertical delineation sampling beneath the containment liner was completed; Ensolum personnel immediately patched the holes in the liner once delineation soil sampling was completed. Laboratory analytical results from vertical delineation samples (BH04 through BH07) indicated all COCs were in compliance with the Site Closure Criteria at ground surface. The release area has been laterally and vertically defined in accordance with the strictest Closure Criteria per NMOCD Table I criteria. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted and waste-containing soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be greater than 101 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2503441044.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely, **Ensolum, LLC**

Ashley Giovengo Associate Principal Daniel R. Moir, PG Senior Managing Geologist

cc: Jason Touchet. Matador



Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 Excavation Soil Sample Locations

Table 1 Delineation Soil Sample Analytical Results
Table 2 Excavation Soil Sample Analytical Results

Appendix A Well Record and Log

Appendix B Lithologic Soil Sampling Logs

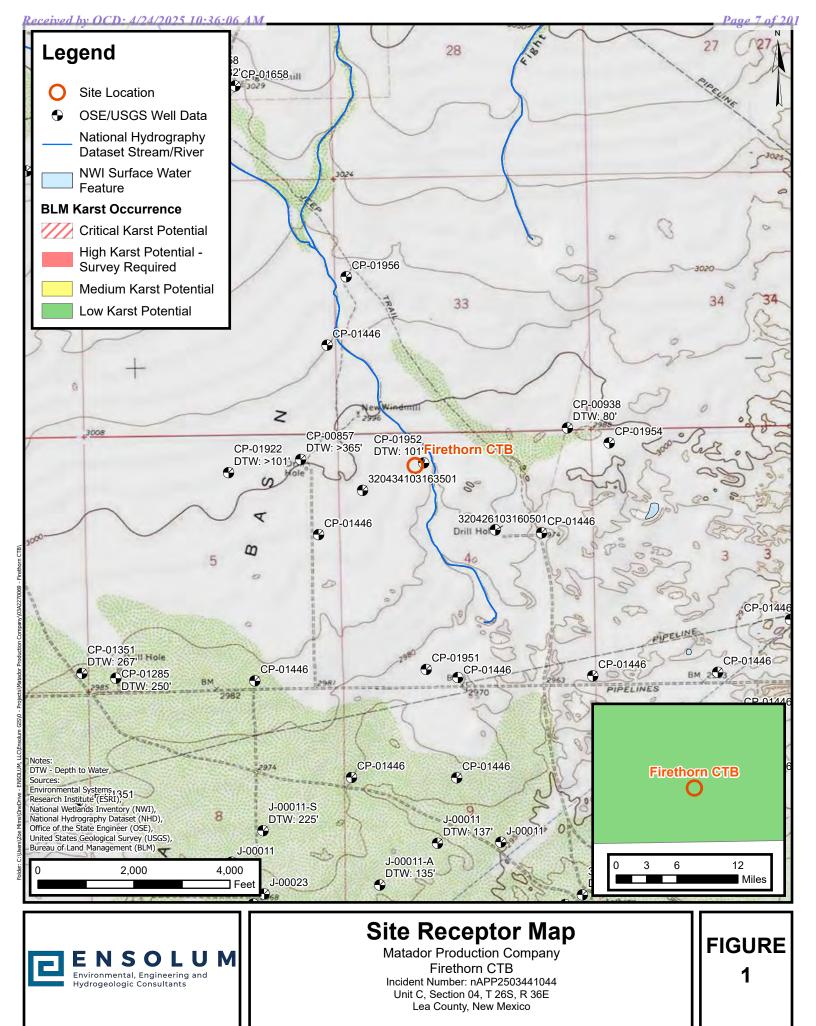
Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

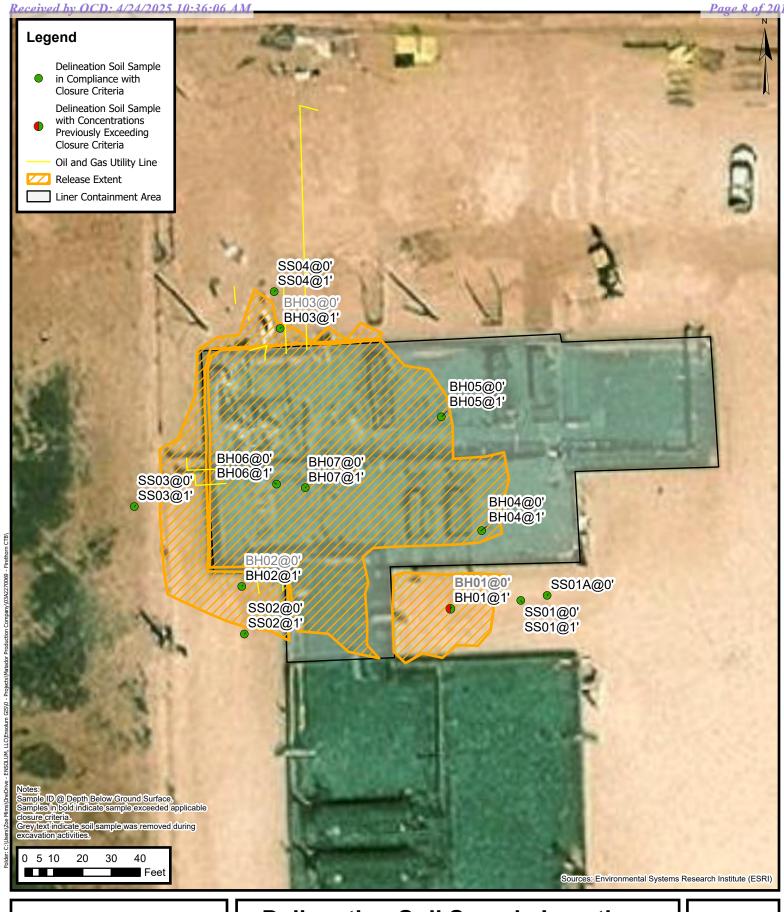
Appendix E NMOCD Correspondence



FIGURES



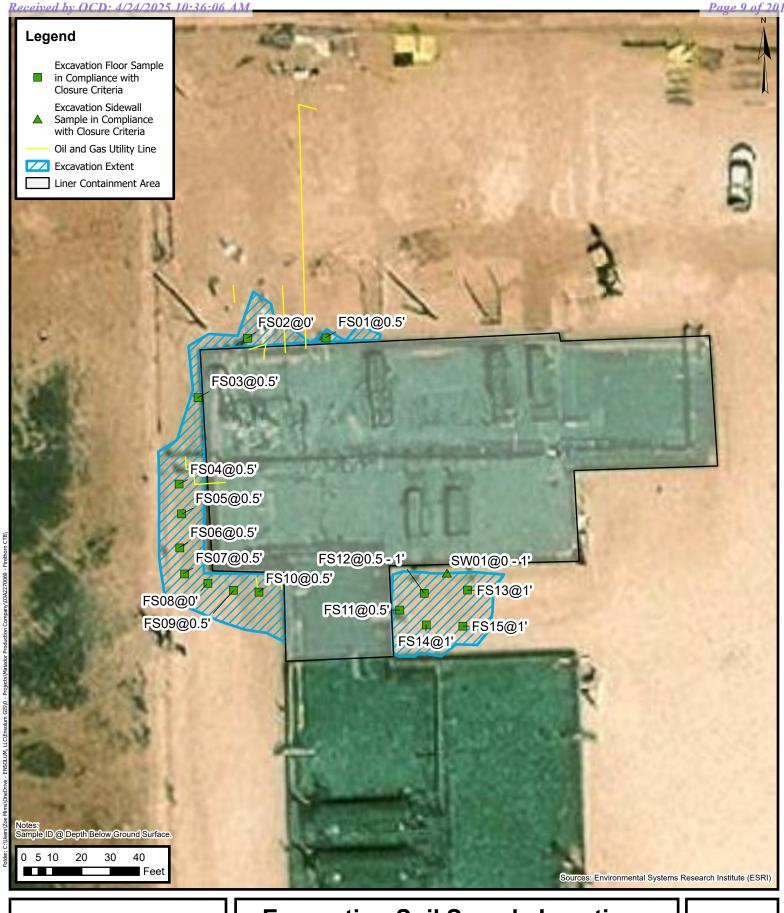
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Delineation Soil Sample Locations

Matador Production Company Firethorn CTB Incident Number: nAPP2503441044 Unit C, Section 04, T 26S, R 36E Lea County, New Mexico FIGURE 2





Excavation Soil Sample Locations

Matador Production Company Firethorn CTB Incident Number: nAPP2503441044 Unit C, Section 04, T 26S, R 36E Lea County, New Mexico FIGURE 3

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TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Firethorn CTB

Matador Resources, LLC. Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Delin	eation Soil San	nples				
SS01	2/14/2025	0	<0.0250	<0.0500	<20.0	539	837	539	1,376	483
SS01	2/14/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS01A	3/26/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	476
SS02	2/7/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	2/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	2/14/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	27.3
SS03	2/14/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	2/7/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	29.3
SS04	2/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	41.4
BH01	2/14/2025	0	<0.0250	0.0445	27.1	2,600	976	2,627	3,603	2,810
BH01	2/14/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02	2/14/2025	0	< 0.0250	< 0.0500	<20.0	850	352	850	1,202	679
BH02	2/14/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH03	2/20/2025	0	< 0.0250	< 0.0500	<20.0	323	200	323	523	223
BH03	2/20/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH04	2/20/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	820
BH04	2/20/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH05	2/25/2025	0	<0.0250	<0.0500	<20.0	116	89.6	116	206	616
BH05	2/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	250
BH06	2/25/2025	0	<0.0250	0.1738	<20.0	<25.0	<50.0	<25.0	<50.0	421
BH06	2/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	43.1
BH07	2/25/2025	0	<0.0250	0.0788	<20.0	115	56.8	115	172	1,070
BH07	2/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	28.9

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg. Released to Imaging: 4/25/2025 2:20:34 PM



TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS

Firethorn CTB

Matador Resources, LLC. Lea County, New Mexico

				LCu	County, New Me	AICO				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Excava	tion Floor Soil S	amples				
FS01	3/26/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	53.4
FS02	3/26/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	73.2
FS03	3/26/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	116
FS04	3/26/2025	0.5	<0.0250	<0.0500	<20.0	115	73.3	115	188.3	157
FS05	3/26/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	44.7
FS06	3/26/2025	0.5	<0.0250	<0.0500	<20.0	33.8	<50.0	33.8	33.8	311
FS07	3/27/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	502
FS08	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	249
FS09	3/27/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS10	3/27/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS11	3/27/2025	0.5	<0.0250	<0.0500	<20.0	486	347.0	486	833	698
FS12	3/27/2025	0.5 - 1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	249
FS13	3/31/2025	1	<0.0250	<0.0500	<20.0	61	<50.0	61	61	533
FS14	3/27/2025	1	<0.0250	0.0330	<20.0	39.6	<50.0	39.6	39.6	111
FS15	3/31/2025	1	<0.0250	0.929	<20.0	103	<50.0	103	103	246
				Excavati	on Sidewall Soil	Samples				
SW01	3/31/2025	0-1	<0.0250	0.0255	<20.0	138	74.8	138	213	519

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated "<": Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

^{*} Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.



APPENDIX A

Well Log and Record

PAGE 1 OF 2

WELL TAG ID NO.



NO	OSE POD NO. (WI POD-1	ELL NO.			WELL TAG ID N n/a	O.		OSE FILE NO(S CP-1952	S).					
OCATI	WELL OWNER NAME(S) Ameredev Operating, LLC								PHONE (OPTIONAL) 737-300-4700					
VELL L	WELL OWNER MAILING ADDRESS 2901 Via Fortuna Suite 600								CITY STATE Austin TX 78746			ZIP		
1. GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)		ITUDE	GREES MINUTES SECONDS 32 4 39.88 N 103 16 21.73 W					REQUIRED: ONE TEN	TH OF A S	SECOND			
1. GEN			G WELL LOCATION TO 26S R36E NMPM	STREET AD	DRESS AND COMM	ON LANDM	ARKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) W	HERE AVA	MLABLE			
	LICENSE NO. 1249		NAME OF LICENSED	DRILLER	Jackie D. Atkir	ns			NAME OF WELL DI Atkins En		OMPANY Associates, I	nc.		
	DRILLING STAR 2/9/23	TED	DRILLING ENDED 2/9/23		COMPLETED WELL corary well mater			LE DEPTH (FT) ±101	DEPTH WATER FIR	n/a				
Z	COMPLETED WE	ELL IS:	ARTESIAN	DRY H	OLE SHALI	LOW (UNCC	ONFINED)		WATER LEVEL PLETED WELL 1	n/a	DATE STATIC 2/13			
MATIO	DRILLING FLUID		AIR ROTARY HAMN	MUD MER CA	ADDIT	TVES - SPE		Hollow Stem	Auger CHEC	C HERE IF	PITLESS ADAI	TER IS		
OR	DRILLING METH	IOD,	ROTART HAMIN	AEK _ CA	BLE TOOL - O	TIER - SI E		Tonow Brem	INSTA	LLED				
& CASING INFORMATION	FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		g, and	CON	ASING NECTION FYPE oling diameter)			CASING WALL THICKNESS (inches)			
C & C	0	0 101 6.25"		Soil Borning			*				-			
2. DRILLIN	2. DRILLING					3.6			W. C. C. C.	994	10-12			
	DEPTH (fee	t bgl)	BORE HOLE		LIST ANNUL AR	SFAL MA	TERIAL	AND	AMOUNT		метно	D OF		
MAL	FROM TO		DIAM. (inches)	. 바다양 (1. 1985년 1978년) :					PLACEMENT					
3. ANNULAR MATERIAL														
FOR	OSE INTERNA	L USE	2-204		POD	20		WR-2	 0	& LOG	(Version 01/2	8/2022)		

26.36.04.321

LOCATION MON

PAGE 2 OF 2

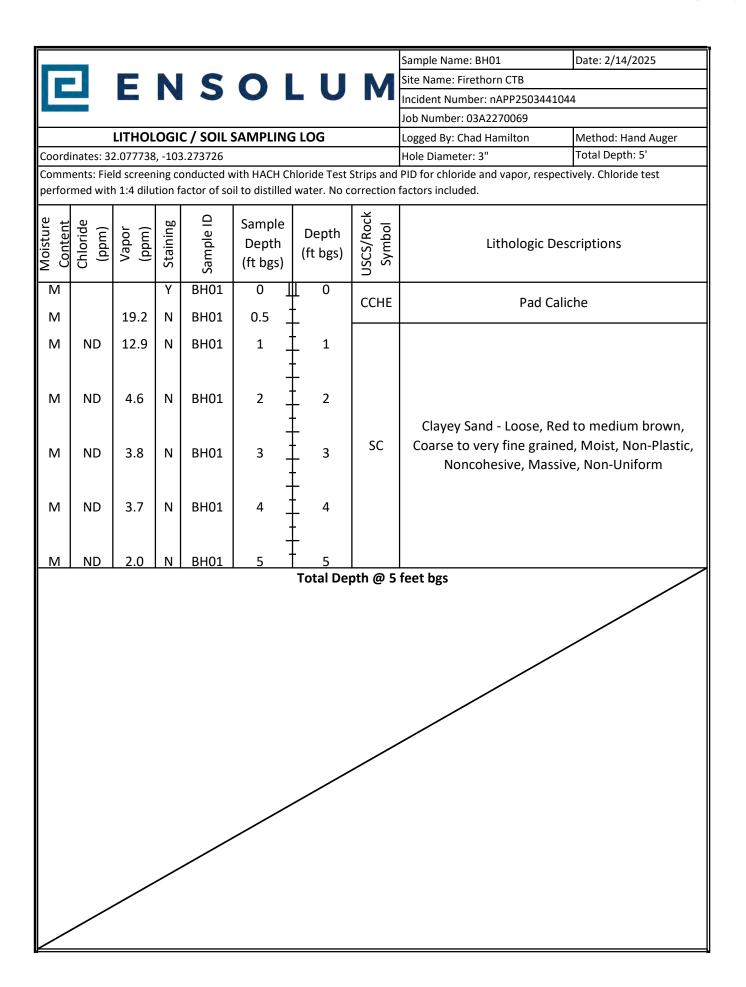
WELL TAG ID NO.

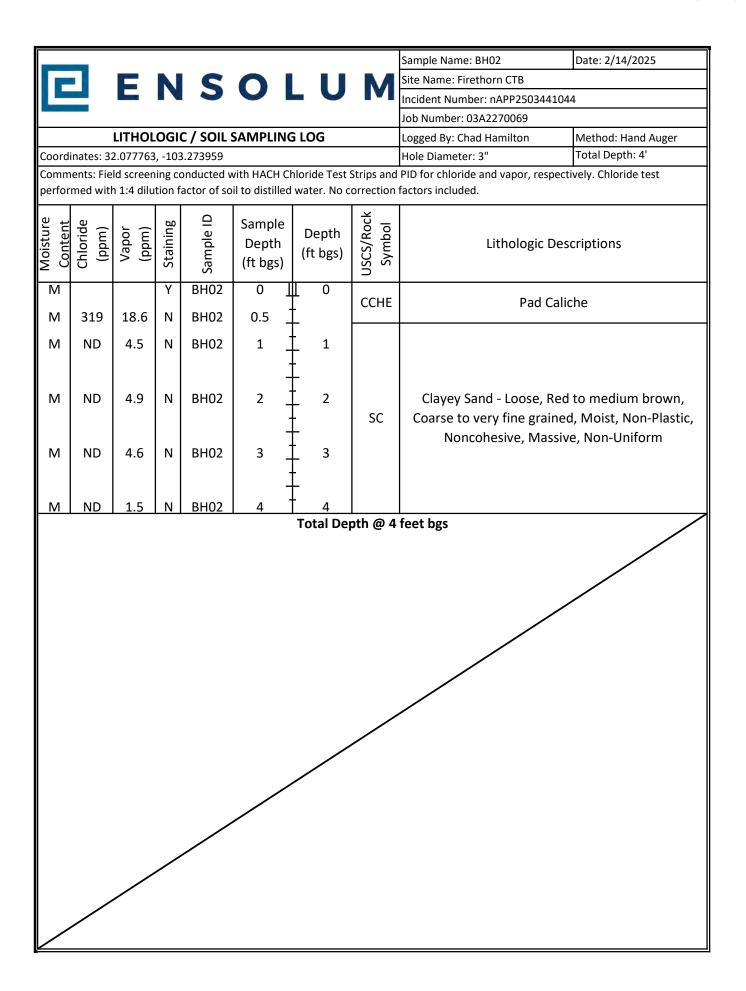
	DEPTH (fee	t bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTE	RED -	WATER	ESTIMATED YIELD FOR	
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTU (attach supplemental sheets to fully describe all to		BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)	
ı	0 12 12			Sand, fine-grained, poorly graded, unconsolidated, E	Brown	Y /N		
	12	19	7	Caliche, consolidated, off white		Y ✓N		
Ī	19	50	31	Sand, fine-grained, poorly graded, Tan		Y ✓N		
	50 65 15			Sand, fine-grained, poorly graded, with clay Ta	n	y ✓n		
	65 70 5 70 74 4			Sand, fine-grained, poorly graded, consolidated, 7	Γan	Y ✓N		
4				Sand, fine-grained, poorly graded, slightly consolidate	ed, Tan	Y ✓N		
	74	101	27	Sand, very fine-grained, poorly graded, unconsolidated,	Tan/Gray	Y ✓N		
5	1					Y N		
3						Y N		
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						Y N		
HIDROGEOLOGIC EOG OF WELL						Y N		
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						Y N		
	METHOD USI	ED TO ES	STIMATE YIELD	тот	AL ESTIMATED			
	PUMP	ПА	IR LIFT	BAILER OTHER – SPECIFY:	WE	LL YIELD (gpm):	0.00	
	WELL TEST	TEST	RESULTS - ATTA	ACH A COPY OF DATA COLLECTED DURING WELL TES ME, AND A TABLE SHOWING DISCHARGE AND DRAWD	TING, INCLUD	ING DISCHARGE NIE TESTING PERIC	METHOD, D.	
IEST, NIG SULERVISION	MISCELLANE	EOUS INI	be rec	moved temporary well material from soil boring, backfillow ground surface, then placed hydrated bentonite from cord. W-13	led with drill co 10 feet to grou	utting from total dend surface. See att	epth to 10 fee ached plugging	
	PRINT NAME Shane Eldridg			VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF W	ELL CONSTRU	OCTION OTHER TH	IAN LICENSE	
	CORRECT RE	CORD O	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE ESCRIBED HOLE AND THAT HE OR SHE WILL FILE TH DO DAYS AFTER COMPLETION OF WELL DRILLING:				
9. SIGNALORE	Jack Ath	ins		Jackie D. Atkins		3/9/2023		
0								

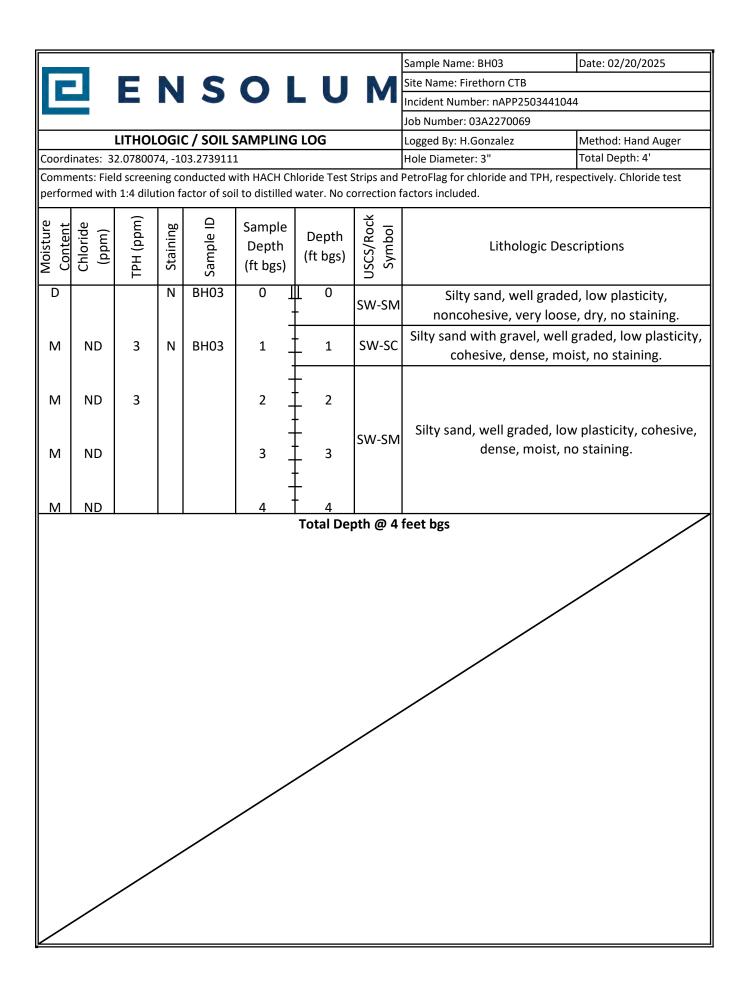


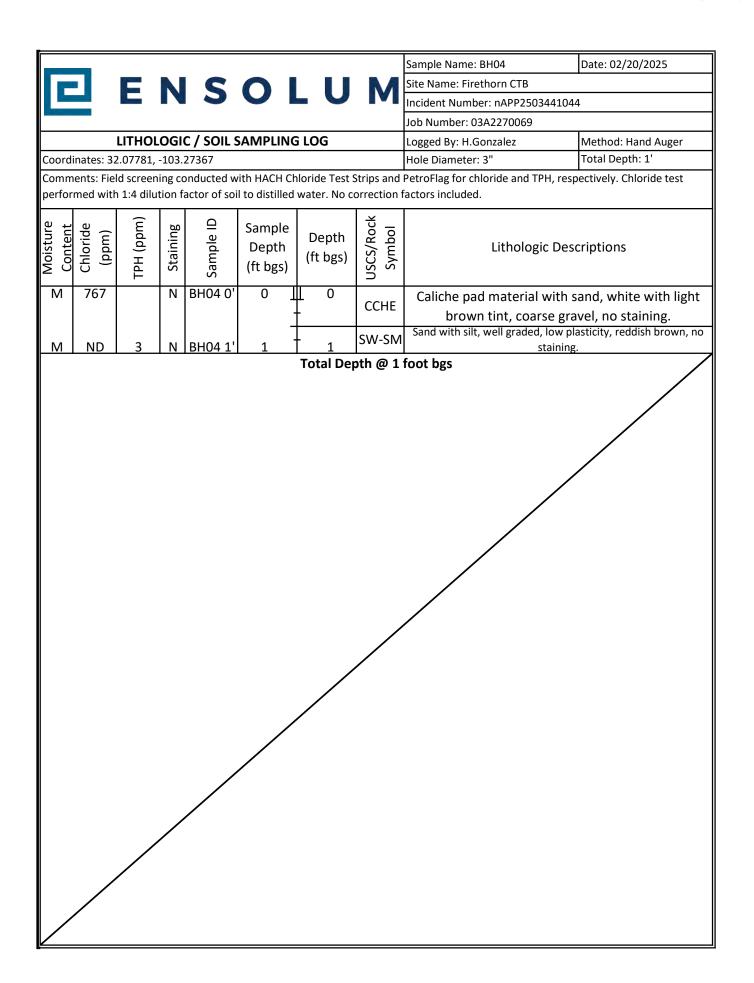
APPENDIX B

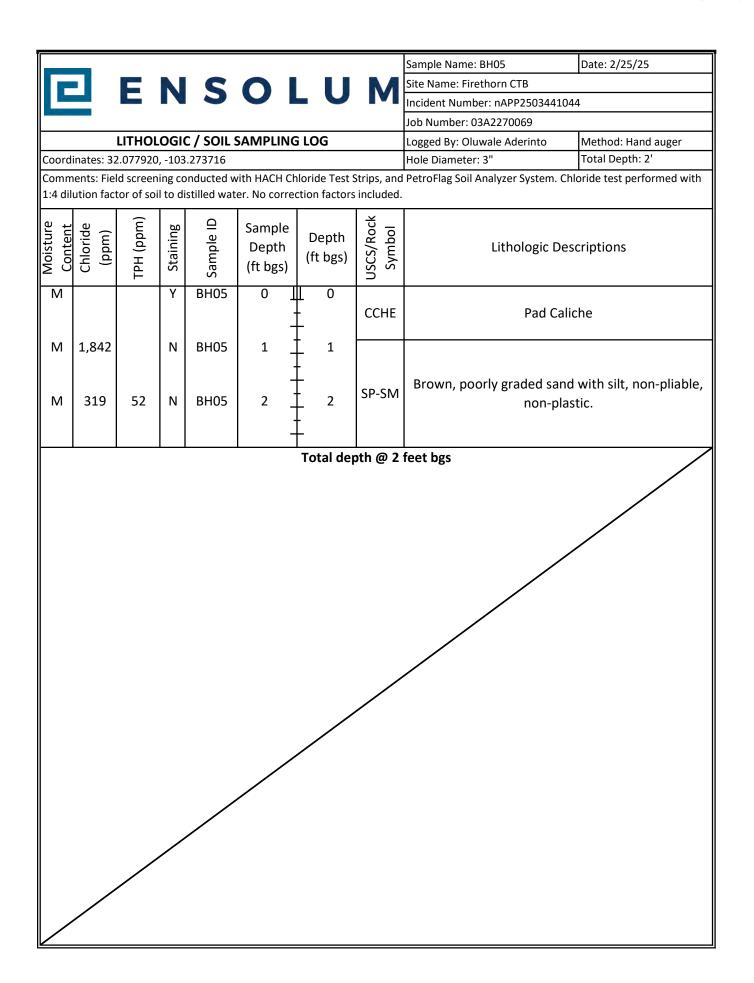
Lithologic Soil Sampling Logs

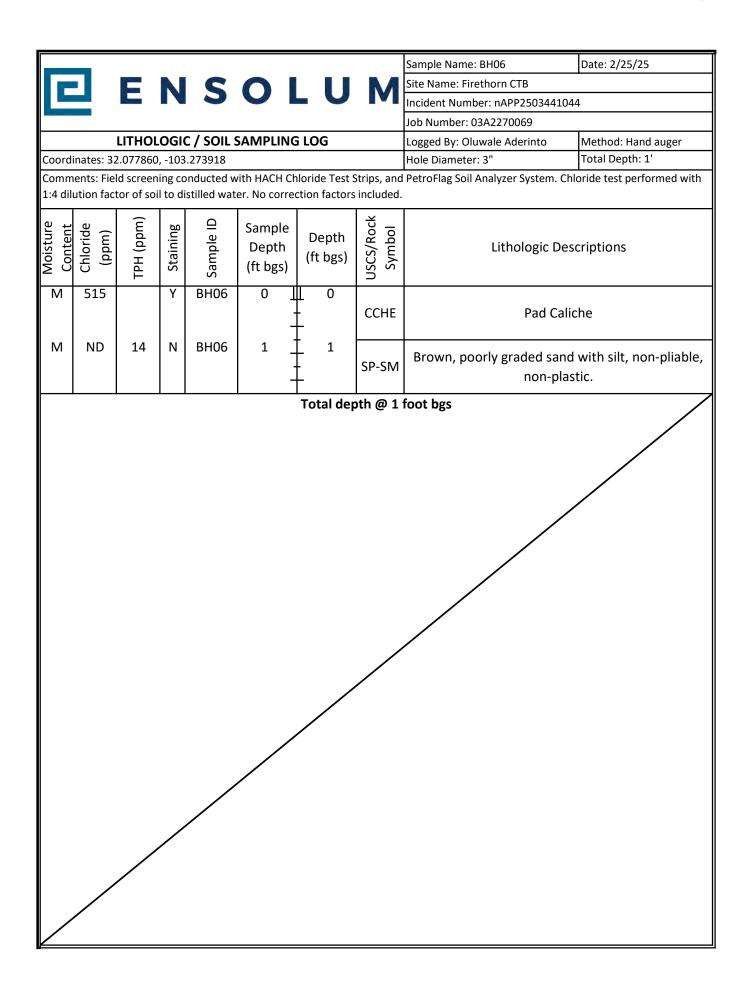


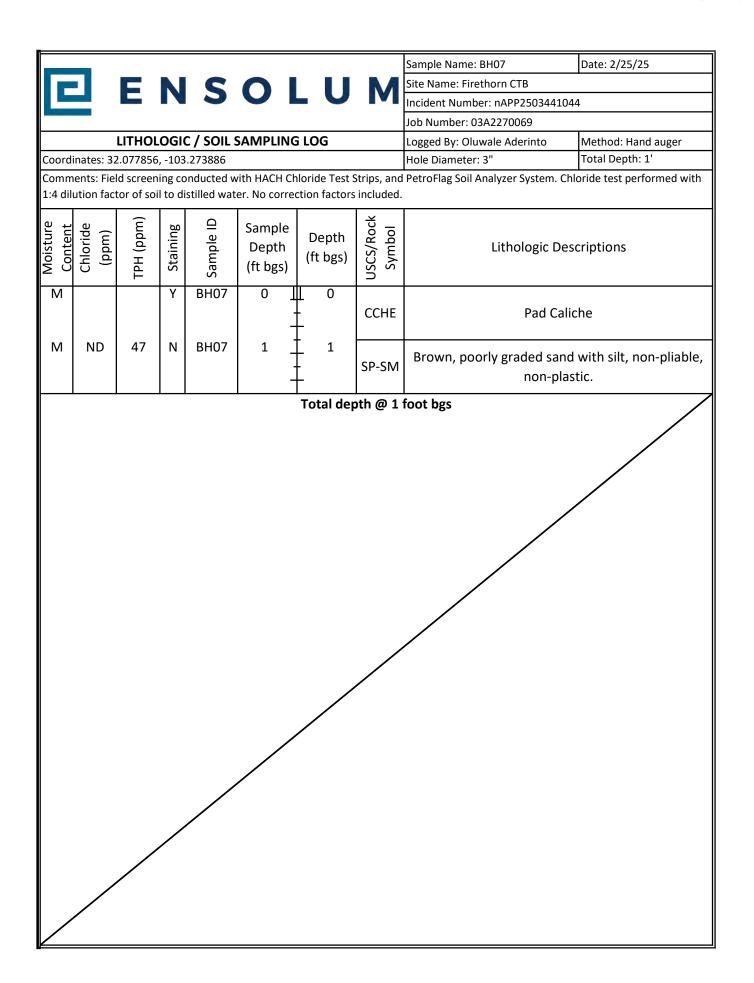














APPENDIX C

Photographic Log



Photographic Log
Matador Production Company
Firethorn CTB
nAPP2503441044





Photograph 1 Date: 2/3/2025 Photograph 2 Date: 2/3/2025

Description: Initial/Mapping

View: North

View: Northwest





Photograph 3 Date: 2/3/2025 Photograph 4 Date: 2/3/2025

Description: Point of Release Description: Initial/Mapping

View: North View: Northwest



Photographic Log

Matador Production Company Firethorn CTB nAPP2503441044





Photograph 5 Date: 2/3/2025 Photograph 6 Date: 2/3/2025

Description: Initial/Mapping
View: Northwest

Description: Initial/Mapping
View: Northwest





Photograph 7 Date: 2/3/2025 Photograph 8 Date: 2/3/2025

Description: Initial/Mapping

View: Southwest

Description: Initial/Mapping

View: Southwest



Photographic Log Matador Production Company

Firethorn CTB
nAPP2503441044





Photograph 9
Description: SS01

View: Northwest

Date: 2/7/2025

Photograph 10 Description: SS02

View: Northeast

Date: 2/7/2025





Photograph 11
Description: Hole 4

View: North

Date: 2/14/2025

Photograph 12 Description: Hole 3

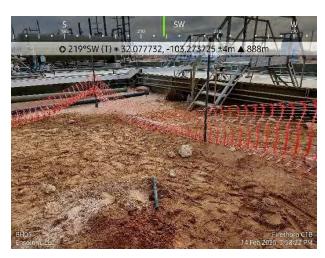
View: South

Date: 2/14/2025



Photographic Log Matador Production Company Firethorn CTB nAPP2503441044

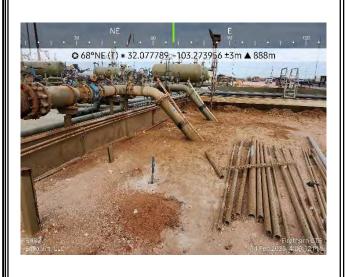




Photograph 13 Date: 2/14/2025 Photograph 14 Date: 2/14/2025

Description: SS01 Description: BH01

View: West View: Southwest





Photograph 15 Date: 2/14/2025 Photograph 16 Date: 2/14/2025

Description: BH02 Description: Delineation
View: East View: Southwest



Photographic Log

Matador Production Company Firethorn CTB nAPP2503441044





Photograph 17 Date: 2/20/2025 Photograph 18 Date: 2/25/2025

Description: Delineation Description: BH05

View: Northwest View: Southeast





Photograph 19 Date: 2/25/2025 Photograph 20 Date: 2/25/2025

Description: BH06

View: East

Description: BH07

View: Northeast



Photographic Log Matador Production Company Firethorn CTB nAPP2503441044





Photograph 21 Date: 2/25/2025 Photograph 22 Date: 2/25/2025

Description: Liner Patch
View: East

Description: Liner Patch
View: Northeast





Photograph 23 Date: 2/25/2025 Photograph 24 Date: 3/25/2025

Description: Liner Patch

View: South

Description: Excavation

View: Southwest



Photographic Log

Matador Production Company Firethorn CTB nAPP2503441044





Photograph 25

Description: Excavation View: South

Date: 2/26/2025

Photograph 26

Description: Excavation View: South

Date: 2/26/2025





Photograph 27

Description: Excavation View: South

Date: 2/26/2025

Photograph 27

Description: Excavation

View: West

Date: 2/28/2025



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E502074

Job Number: 23003-0002

Received: 2/11/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/17/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/17/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E502074

Date Received: 2/11/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/11/2025 7:30:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Firethorn CTB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/17/25 09:40

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS02-0'	E502074-01A Soil	02/07/25	02/11/25	Glass Jar, 2 oz.
SS02-1'	E502074-02A Soil	02/07/25	02/11/25	Glass Jar, 2 oz.
SS04-0'	E502074-03A Soil	02/07/25	02/11/25	Glass Jar, 2 oz.
SS04-1'	E502074-04A Soil	02/07/25	02/11/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/17/2025 9:40:11AM

SS02-0' E502074-01

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2507026
Benzene	ND	0.0250	1	02/11/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/11/25	02/11/25	
Toluene	ND	0.0250	1	02/11/25	02/11/25	
o-Xylene	ND	0.0250	1	02/11/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/11/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/11/25	02/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/11/25	02/11/25	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	02/11/25	02/11/25	
Surrogate: Toluene-d8		105 %	70-130	02/11/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	P	Analyst: SL		Batch: 2507026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/11/25	02/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/11/25	02/11/25	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	02/11/25	02/11/25	
Surrogate: Toluene-d8		105 %	70-130	02/11/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KH		Batch: 2507030
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/25	02/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/25	02/11/25	
Surrogate: n-Nonane		114 %	61-141	02/11/25	02/11/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2507032
11110113 by E111 500:0/703011						



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/17/2025 9:40:11AM

SS02-1'

		E502074-02				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2507026
Benzene	ND	0.0250	1	02/11/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/11/25	02/11/25	
Toluene	ND	0.0250	1	02/11/25	02/11/25	
o-Xylene	ND	0.0250	1	02/11/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/11/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/11/25	02/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/11/25	02/11/25	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	02/11/25	02/11/25	
Surrogate: Toluene-d8		105 %	70-130	02/11/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: SL		Batch: 2507026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/11/25	02/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/11/25	02/11/25	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	02/11/25	02/11/25	
Surrogate: Toluene-d8		105 %	70-130	02/11/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KH		Batch: 2507030
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/25	02/12/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/25	02/12/25	
Surrogate: n-Nonane	·	108 %	61-141	02/11/25	02/12/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2507032
Chloride	ND	20.0	1	02/11/25	02/11/25	



Matador Resources, LLC.Project Name:Firethorn CTB5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo2/17/20259:40:11AM

SS04-0'

E502074-03

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2507026
Benzene	ND	0.0250	1	02/11/25	02/11/25	
Ethylbenzene	ND	0.0250	1	02/11/25	02/11/25	
Toluene	ND	0.0250	1	02/11/25	02/11/25	
o-Xylene	ND	0.0250	1	02/11/25	02/11/25	
p,m-Xylene	ND	0.0500	1	02/11/25	02/11/25	
Total Xylenes	ND	0.0250	1	02/11/25	02/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/11/25	02/11/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/11/25	02/11/25	
Surrogate: Toluene-d8		105 %	70-130	02/11/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: SL		Batch: 2507026
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/11/25	02/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	02/11/25	02/11/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	02/11/25	02/11/25	
Surrogate: Toluene-d8		105 %	70-130	02/11/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KH		Batch: 2507030
Diesel Range Organics (C10-C28)	ND	25.0	1	02/11/25	02/12/25	-
Oil Range Organics (C28-C36)	ND	50.0	1	02/11/25	02/12/25	
Surrogate: n-Nonane		110 %	61-141	02/11/25	02/12/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2507032



Matador Resources, LLC.Project Name:Firethorn CTB5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo2/17/2025 9:40:11AM

SS04-1'

E502074-04

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: SL		Batch: 2507026
Benzene	ND	0.0250		1	02/11/25	02/11/25	
Ethylbenzene	ND	0.0250		1	02/11/25	02/11/25	
Toluene	ND	0.0250		1	02/11/25	02/11/25	
o-Xylene	ND	0.0250		1	02/11/25	02/11/25	
p,m-Xylene	ND	0.0500		1	02/11/25	02/11/25	
Total Xylenes	ND	0.0250		1	02/11/25	02/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/11/25	02/11/25	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		02/11/25	02/11/25	
Surrogate: Toluene-d8		105 %	70-130		02/11/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: SL		Batch: 2507026
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/11/25	02/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/11/25	02/11/25	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		02/11/25	02/11/25	
Surrogate: Toluene-d8		105 %	70-130		02/11/25	02/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KH		Batch: 2507030
Diesel Range Organics (C10-C28)	ND	25.0		1	02/11/25	02/12/25	
Oil Range Organics (C28-C36)	ND	50.0		1	02/11/25	02/12/25	
Surrogate: n-Nonane		108 %	61-141		02/11/25	02/12/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2507032
Chloride	41.4	20.0		1	02/11/25	02/11/25	



Matador Resources, LLC. Project Name: Firethorn CTB Reported:
5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002
Dallas TX, 75240 Project Manager: Ashley Giovengo 2/17/2025 9:40:11AM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			2/1	//2025 9:40:11AI	
	V	olatile Organ	ic Compo	unds by El	PA 82601	В		Analyst: SL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2507026-BLK1)							Prepared: 0	2/11/25 Analy	zed: 02/11/25	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130				
Surrogate: Toluene-d8	0.525		0.500		105	70-130				
LCS (2507026-BS1)							Prepared: 0	2/11/25 Analy	zed: 02/11/25	
Benzene	2.16	0.0250	2.50		86.4	70-130				
Ethylbenzene	2.30	0.0250	2.50		92.2	70-130				
Toluene	2.37	0.0250	2.50		94.8	70-130				
o-Xylene	2.26	0.0250	2.50		90.5	70-130				
p,m-Xylene	4.75	0.0500	5.00		94.9	70-130				
Total Xylenes	7.01	0.0250	7.50		93.4	70-130				
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130				
Surrogate: Toluene-d8	0.521		0.500		104	70-130				
Matrix Spike (2507026-MS1)				Source:	E502074-	02	Prepared: 0	2/11/25 Analy	zed: 02/11/25	
Benzene	2.19	0.0250	2.50	ND	87.4	48-131				
Ethylbenzene	2.36	0.0250	2.50	ND	94.5	45-135				
Toluene	2.42	0.0250	2.50	ND	96.9	48-130				
o-Xylene	2.35	0.0250	2.50	ND	93.8	43-135				
p,m-Xylene	4.94	0.0500	5.00	ND	98.8	43-135				
Total Xylenes	7.28	0.0250	7.50	ND	97.1	43-135				
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130				
Surrogate: Toluene-d8	0.519		0.500		104	70-130				
Matrix Spike Dup (2507026-MSD1)				Source:	E502074-	02	Prepared: 0	2/11/25 Analy	zed: 02/11/25	
Benzene	2.11	0.0250	2.50	ND	84.4	48-131	3.54	23		
Ethylbenzene	2.23	0.0250	2.50	ND	89.2	45-135	5.77	27		
Toluene	2.34	0.0250	2.50	ND	93.6	48-130	3.44	24		
o-Xylene	2.28	0.0250	2.50	ND	91.4	43-135	2.66	27		
p,m-Xylene	4.80	0.0500	5.00	ND	96.0	43-135	2.87	27		
Total Xylenes	7.08	0.0250	7.50	ND	94.4	43-135	2.80	27		
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130				
6	0.402		0.500		06.2	70 120				



0.500

0.500

96.3

104

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.482

0.522

Firethorn CTB Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 2/17/2025 9:40:11AM Dallas TX, 75240 Project Manager: Ashley Giovengo

Nonhalogenated	Organics by	v EPA 8015D	- GRO

Analyst: SL

Analyte		Reporting	Spike	Source		Rec		RPD	
,	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Resuit	Limit	LCVCI	Result	Rec	Lillits	ICI D	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2507026-BLK1)							Prepared: 0	2/11/25 An	alyzed: 02/11/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
LCS (2507026-BS2)							Prepared: 0	2/11/25 An	alyzed: 02/11/25
Gasoline Range Organics (C6-C10)	59.0	20.0	50.0		118	70-130			
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			
Matrix Spike (2507026-MS2)				Source:	E502074-0	02	Prepared: 0	2/11/25 An	alyzed: 02/11/25
Gasoline Range Organics (C6-C10)	57.9	20.0	50.0	ND	116	70-130			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			
Matrix Spike Dup (2507026-MSD2)				Source:	E502074-0	02	Prepared: 0	2/11/25 An	alyzed: 02/11/25
Gasoline Range Organics (C6-C10)	60.3	20.0	50.0	ND	121	70-130	4.03	20	
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
G									
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			



Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/17/20259:40:11AM

	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2507030-BLK1)							Prepared: 0	2/11/25 Ana	lyzed: 02/11/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.2		50.0		106	61-141			
LCS (2507030-BS1)							Prepared: 0	2/11/25 Ana	lyzed: 02/11/25
Diesel Range Organics (C10-C28)	268	25.0	250		107	66-144			
Surrogate: n-Nonane	53.1		50.0		106	61-141			
Matrix Spike (2507030-MS1)				Source:	E502073-0	02	Prepared: 0	2/11/25 Ana	lyzed: 02/11/25
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	56-156			
Surrogate: n-Nonane	55.0		50.0		110	61-141			
Matrix Spike Dup (2507030-MSD1)				Source:	E502073-0	02	Prepared: 0	2/11/25 Ana	lyzed: 02/11/25
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156	3.86	20	
Surrogate: n-Nonane	54.6		50.0		109	61-141			

Matrix Spike Dup (2507032-MSD1)

Chloride

726

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	_	irethorn CTB 3003-0002					Reported:
Dallas TX, 75240		Project Manager	r: A	shley Gioveng	go			:	2/17/2025 9:40:11AM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: DT
Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit	Notes
Blank (2507032-BLK1)									nalyzed: 02/11/25
Chloride	ND	20.0					1		
LCS (2507032-BS1)							Prepared: 0	2/11/25 Ar	nalyzed: 02/11/25
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2507032-MS1)				Source:	E502073-	03	Prepared: 0	2/11/25 Ar	nalyzed: 02/11/25
Chloride	704	20.0	250	515	75.4	80-120			M2

250

20.0

Source: E502073-03

84.4

80-120

3.13

515

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 02/11/25 Analyzed: 02/11/25

20

Definitions and Notes

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/17/25 09:40

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

	Clie	nt Inform	nation			Invoice Informatio	n				La	ab U	e Or	ily			- 1	T	AT			Sta	ite	7
Project:	Matador Prod Firethorn	СТВ				Company: Ensolum LLC Address: 3122 National Parks			Lat.	1000 c	74		Job Z3	Num 003	ber 5'00	οZ	1D	2D	3D	Std x	NN x	I CO U	T TX	
Address:	Manager: Ash 3122 Nation	nal Parks	Hwy			City, State, Zip: Carlsbad NM, Phone: 575-988-0055	88220		-				Ana	lysis	and	Met	hod					PA Prog		
	te, Zip: Carls		88220			mail: agiovengo@ensolum.	.com												10		SDWA	CWA	RCRA	١
	575-988-005 <u>5</u> giovengo@ei		nm		M	iscellaneous:				100	ın						П				Complia	nce I	or I	NI
Linaii. a	giovengowei	13010111.0	OIII							801	801	_		0.		~	sis				PWSID :	-	l oi l i	•
				San	nple Informa	tion	1			30 b)	30 by	802	8260	300	N	T-50	Meta							
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Filter	Lab umbei	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remar	ks	
12:42	2/7/2025	Soil	1			SS02 - 0'			1						х									
12:52	2/7/2025	Soil	1			SS02 - 1'			2						x									
12:57	2/7/2025	Soil	1			SS04 - 0'			3						х									
13:02	2/7/2025	Soil	1			SS04 - 1'		-	+						х									
									•															
																								_
	-	-						Ť						- 7				-						_
								T	-	1														
Addition	al Instruction	ns: Plea	se CC: cb	urton@	ensolum.com	, agiovengo@ensolum.com,	iestrella	a@er	solur	n.com	, cha	milt	on@	enso	lum.	com	, bsir	mmc	ns@	enso	lum.con	1		_
		validity and	authenticity	of this samp	ble. I am aware th	at tampering with or intentionally mislab	eling the sa	ample l	ocation,	, date or	time	of colle	ction i	consi	dered	fraud a	ind ma	y be g	rounds	for leg	gal action.			-
Relinquish	:Jenna Hinkle_ ed by: (Signatur		Date	las	Time	Received by: (Signature)	Da	te		Time												d on ice the		
Jenn	1 tinhle	X		0/25	7:00	Marchy Jona	ly 2	2.10	25	0	70	٥			sample	ed or re	ceived	packed				0 but less th	an 6 °C on	_
mo	ed by: (Signature	males		10-25	1630	Received by: (Signatur))	Da	2.1	0.2	S /	7	15			Rece	eived	on i	ice:	0	I/ N	se Only			
11	ed by: (Signature			10.0			-	-11-	25	73	30)			<u>T1</u>				<u>T2</u>			<u>T3</u>		
	ed by: (Signatur		Date		Time	Received by: (Signature)		te		Time					AVG				4					
	rix: S - Soil, Sd - So					r arrangements are made. Hazardou				oe: g -		-			_		_			0		or 100 no.	, was the same	



Printed: 2/11/2025 9:24:36AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	02/11/25 0	07:30	Work Order II	D: E502074
Phone:	(972) 371-5200	Date Logged In:	02/10/25 1	15:47	Logged In By	: Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	02/17/25	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Cou	<u>urier</u>	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comm</u>	nents/Resolution
Sample T	<u>urn Around Time (TAT)</u>					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes	1		
10. Were	custody/security seals present?		No	1		
11. If yes	, were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes C			
Sample C	•	· · · · · · <u>—</u>	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lal	•					
	field sample labels filled out with the minimum info	ormation:				
	ample ID?		Yes			
D	ate/Time Collected?		Yes	L		
C	ollectors name?		Yes			
	<u>reservation</u>					
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
	se Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	ise?	No			
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcontr	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: 1	NA	
Client Ir	nstruction_					
<u> </u>						

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E502155

Job Number: 23003-0002

Received: 2/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/21/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/21/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E502155

Date Received: 2/18/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/18/2025 8:00:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

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311ee: 303 121 E/1B5(3

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

Matador Resources, LLC.	Project Name:	Firethorn CTB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/21/25 13:44

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container	
SS01-0'	E502155-01A Soil	02/14/25	02/18/25	Glass Jar, 2 oz.	
SS01-1'	E502155-02A Soil	02/14/25	02/18/25	Glass Jar, 2 oz.	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2025 1:44:06PM

SS01-0'

E502155-0	1
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2508035
Benzene	ND	0.0250	1	02/18/25	02/18/25	
Ethylbenzene	ND	0.0250	1	02/18/25	02/18/25	
Toluene	ND	0.0250	1	02/18/25	02/18/25	
o-Xylene	ND	0.0250	1	02/18/25	02/18/25	
p,m-Xylene	ND	0.0500	1	02/18/25	02/18/25	
Total Xylenes	ND	0.0250	1	02/18/25	02/18/25	
Surrogate: 4-Bromochlorobenzene-PID		86.5 %	70-130	02/18/25	02/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2508035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/18/25	02/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	02/18/25	02/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2508042
Diesel Range Organics (C10-C28)	539	25.0	1	02/18/25	02/18/25	
Oil Range Organics (C28-C36)	837	50.0	1	02/18/25	02/18/25	
Surrogate: n-Nonane		133 %	61-141	02/18/25	02/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2508048
Chloride	483	20.0	1	02/18/25	02/18/25	

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2025 1:44:06PM

SS01-1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2508035
Benzene	ND	0.0250	1	02/18/25	02/18/25	
Ethylbenzene	ND	0.0250	1	02/18/25	02/18/25	
Toluene	ND	0.0250	1	02/18/25	02/18/25	
o-Xylene	ND	0.0250	1	02/18/25	02/18/25	
o,m-Xylene	ND	0.0500	1	02/18/25	02/18/25	
Total Xylenes	ND	0.0250	1	02/18/25	02/18/25	
Surrogate: 4-Bromochlorobenzene-PID		85.6 %	70-130	02/18/25	02/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2508035
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/18/25	02/18/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	02/18/25	02/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2508042
Diesel Range Organics (C10-C28)	ND	25.0	1	02/18/25	02/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/18/25	02/18/25	
Surrogate: n-Nonane		117 %	61-141	02/18/25	02/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2508048
	ND	20.0		02/18/25	02/18/25	



Surrogate: 4-Bromochlorobenzene-PID

7.06

QC Summary Data

Matador Resources, LLC.	Project Name:	Firethorn CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	•
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2025 1:44:06PM

Dallas TX, 75240		Project Manager:		shley Giovengo)				2/21/2025 1:44:06PM
		Volatile O	rganics b	oy EPA 8021	1B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2508035-BLK1)							Prepared: 02	2/17/25 Ar	nalyzed: 02/17/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			
LCS (2508035-BS1)							Prepared: 02	2/17/25 Ar	nalyzed: 02/17/25
Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130			
Toluene	5.06	0.0250	5.00		101	70-130			
o-Xylene	4.95	0.0250	5.00		99.0	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			
LCS Dup (2508035-BSD1)							Prepared: 02	2/17/25 Ar	nalyzed: 02/17/25
Benzene	5.19	0.0250	5.00		104	70-130	0.496	20	-
Ethylbenzene	4.96	0.0250	5.00		99.1	70-130	0.565	20	
Toluene	5.09	0.0250	5.00		102	70-130	0.576	20	
o-Xylene	4.98	0.0250	5.00		99.6	70-130	0.606	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	0.542	20	
Total Xylenes	15.0	0.0250	15.0		100	70-130	0.564	20	

70-130



Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/21/2025 1:44:06PM

Nonhalogenated	Organics by	EPA	.8015D -	GRO

Analyst: SL

Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2508035-BLK1)						Prepared: 02	2/17/25	Analyzed: 02/17/25
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00	94.4	70-130			
LCS (2508035-BS2)						Prepared: 02	2/17/25	Analyzed: 02/17/25
Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	81.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00	95.1	70-130			
LCS Dup (2508035-BSD2)						Prepared: 02	2/17/25	Analyzed: 02/18/25
Gasoline Range Organics (C6-C10)	41.4	20.0	50.0	82.8	70-130	1.77	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00	94.6	70-130			



Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/21/20251:44:06PM

, , , ,		, ,		, .	2				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2508042-BLK1)							Prepared: 0	2/18/25 Ana	alyzed: 02/18/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.7		50.0		115	61-141			
LCS (2508042-BS1)							Prepared: 0	2/18/25 Ana	alyzed: 02/18/25
Diesel Range Organics (C10-C28)	294	25.0	250		118	66-144			
Surrogate: n-Nonane	58.4		50.0		117	61-141			
Matrix Spike (2508042-MS1)				Source:	E502154-0	05	Prepared: 0	2/18/25 Ana	alyzed: 02/18/25
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	56-156			
Surrogate: n-Nonane	60.9		50.0		122	61-141			
Matrix Spike Dup (2508042-MSD1)				Source:	E502154-0	05	Prepared: 0	2/18/25 Ana	alyzed: 02/18/25
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	56-156	3.71	20	
Surrogate: n-Nonane	64.5		50.0		129	61-141			

Matrix Spike (2508048-MS1)

Chloride

Matrix Spike Dup (2508048-MSD1)

266

261

Prepared: 02/18/25 Analyzed: 02/18/25

Prepared: 02/18/25 Analyzed: 02/18/25

20

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	•						Reported:		
Dallas TX, 75240		Project Manager: Ashley Giovengo						2/21/2025 1:44:06PM			
		Anions	by EPA	300.0/9056 <i>A</i>	\				Analyst: AK		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2508048-BLK1)							Prepared: 0	2/18/25 A	nalyzed: 02/18/25		
Chloride	ND	20.0									
LCS (2508048-BS1)							Prepared: 0	2/18/25 A	nalyzed: 02/18/25		
Chloride	255	20.0	250		102	90-110					

250

250

20.0

20.0

Source: E502155-02

Source: E502155-02

106

104

80-120

80-120

1.87

ND

ND

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/21/25 13:44

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain	of	Custod	١

Page	of

	Clie	nt Inform	ation	_		Invoice Information					La	ab Us	e On	ly				T/	AT		State
Client: N	latador Prod	uction Co	mpany		Co	mpany: Ensolum LLC		[Lab WO# Job Number 1D 2D 3D Std E 502 5					NM CO UT TX							
Project:	Firethorn CT	В			Ad	dress: 3122 National Parks H	wy	E502155 13003-0002 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX						X							
Project N	1anager: Asi	nley Giove	engo		Cit	y, State, Zip: Carlsbad NM, 88	220	[
Address:	3122 Nation	nal Parks I	Hwy		Pho	one: 575-988-0055		I					Ana	lysis	and	Met	hod				EPA Program
City, Stat	e, Zip: Carls	bad NM, 8	88220		<u>E</u> m	nail: agiovengo@ensolum.co	m														SDWA CWA RCRA
	75-988-005				Misc	cellaneous:									ŀ				1	İ	
Email: a	giovengo@e	nsolum.co	<u>om</u>						- 1	210	115	ľ						l			Compliance Y or N
)8 A)6 (∣≂	₈	0.0	Σ	¥	igs Sign	1			PWSID#
				Sam	ple Information	on			4	ᅙ	80	&	/826	le 3(8	ž		l		
Time Sampled	Date Sampled	Matrix	No. of Container	s		Sample ID	Field	Lat Numi		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
1300	2/14/25	5			55	501 -01		1							χ						
1407	2/14/25	5	1		55	01-1		2							X						
																					
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												<u> </u>	_	_				<u> </u>	↓_		
																	ļ				
Addition	l al Instructio	ns: Plea	se CC: (:burton@er	rsolum.com, a	giovengo@ensolum.com, cha	milton	@ensc	olum	n.con	n, ie:	strel	la@e	nsol	um.c	om,	bdea	ıl@e	nsolu	ım.co	om,
bsimmo	ns@ensolum pler), attest to th	e validity and	l authentic	ity of this samp	le. I am aware that	tampering with or intentionally mislabel	ing the sai	mple loca	tion,	date o	or time	of col	lection	is con	sidere	d frau	d and r	nay be	groun	ds for	legal action.
	Chad Ham					<u> </u>															
Relinquish	ed by: (Signa tor	<u>e</u>		te alınlak	Time	Received by: (Signature) Wichelle Gonzale	Date	(n)	[_	Time	10-						-				est be received on ice the day they are g temp above 0 but less than 6 °C on
				2/17/25	1100	1 - Inductio Changale	<u>لم ک</u> Date	<u> 11.1</u>	7	Time	100		-		euben	auant c	lave				se Only
Relinquish Wic	Relinquished by: (Signature) Date Time Received by: (Signature) Nuhelle Gonzales 1630 Methods N.				nde V. (Signature)	1	. 17. Z	5	1111112	63	0			Rec	eive	d on i	ice:)/ N		
Relinquieh	elinquiched by: (Signature) Date Time Recented by: (Signature)			Date	18.2	5	80	CX)			T1				<u>T</u> 2		<u>T3</u>			
Relinquish	ed by: (Signatur	e)		te	Time					Time					Δνισ	Ton	np °C	4			
Sample Mat	rix: S - Soil, Sd - S	olid. Se - Shir	dge. A - Ar	ueous, O - Othe	<u> </u>		Cor	tainer	Type	: g - g	glass.	p - p	oly/p	astic					- VOA	1	-
						rrangements are made. Hazardous sa															he analysis of the above samples is
						e liability of the laboratory is limited															



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Printed: 2/18/2025 8:50:15AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

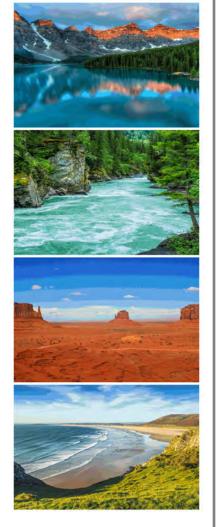
Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	02/18/25	08:00		Work Order ID:	E502155
Phone:	(972) 371-5200	Date Logged In:	02/17/25	15:04		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	02/24/25	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC					
	amples dropped off by client or carrier?	 000	Yes Yes	Comion C	Your ion		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: C	<u>ourier</u>		
	Il samples received within holding time?	ica anaryses.	Yes				
3. Word a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		103			Comment	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	, <u>*</u>	temperature. 1	<u>~</u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	•	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat	· · · · · · · · · · · · · · · · · · ·	iers conecteur	165				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes	l			
C	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	· NA		
		so who.	1421	Subcontract Lab). NA		
Client Ir	<u>astruction</u>						
L							

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E502156

Job Number: 23003-0002

Received: 2/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/21/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/21/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E502156

Date Received: 2/18/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/18/2025 8:00:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Firethorn CTB	P. (1
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/21/25 13:42

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS03-0'	E502156-01A Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
SS03-1'	E502156-02A Soil	02/14/25	02/18/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2025 1:42:33PM

SS03-0' E502156-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg		Analyst:	SL		Batch: 2508040
Benzene	ND	0.0250	1	1	02/18/25	02/19/25	
Ethylbenzene	ND	0.0250	1	1	02/18/25	02/19/25	
Toluene	ND	0.0250	1	1	02/18/25	02/19/25	
o-Xylene	ND	0.0250	1	1	02/18/25	02/19/25	
p,m-Xylene	ND	0.0500	1	1	02/18/25	02/19/25	
Total Xylenes	ND	0.0250	1	1	02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		101 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2508040
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		101 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2508042
Diesel Range Organics (C10-C28)	ND	25.0	1	1	02/18/25	02/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	1	02/18/25	02/18/25	
Surrogate: n-Nonane		105 %	61-141		02/18/25	02/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	AK		Batch: 2508048



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2025 1:42:33PM

SS03-1'

E502156-02

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: S	L		Batch: 2508040
Benzene	ND	0.0250	1		02/18/25	02/19/25	
Ethylbenzene	ND	0.0250	1		02/18/25	02/19/25	
Toluene	ND	0.0250	1		02/18/25	02/19/25	
o-Xylene	ND	0.0250	1		02/18/25	02/19/25	
p,m-Xylene	ND	0.0500	1		02/18/25	02/19/25	
Total Xylenes	ND	0.0250	1		02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		102 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: SL			Batch: 2508040	
Gasoline Range Organics (C6-C10)	ND	20.0	1		02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		102 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: N	IV		Batch: 2508042
Diesel Range Organics (C10-C28)	ND	25.0	1		02/18/25	02/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1		02/18/25	02/18/25	
Surrogate: n-Nonane		107 %	61-141		02/18/25	02/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: A	ιK		Batch: 2508048
11110113 by E111 500:0/203011							



Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/21/2025 1:42:33PM

Dallas TX, 75240		Project Manager	r: As	shley Gioveng	go				1/2025 1:42:33PM	
Volatile Organic Compounds by EPA 8260B										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2508040-BLK1)							Prepared: 02	2/18/25 Analy	zed: 02/19/25	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
p-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130				
Surrogate: Toluene-d8	0.504		0.500		101	70-130				
LCS (2508040-BS1)							Prepared: 02	2/18/25 Analy	zed: 02/19/25	
Benzene	2.22	0.0250	2.50		88.9	70-130				
Ethylbenzene	2.26	0.0250	2.50		90.3	70-130				
Coluene	2.33	0.0250	2.50		93.3	70-130				
-Xylene	2.35	0.0250	2.50		93.9	70-130				
o,m-Xylene	4.84	0.0500	5.00		96.7	70-130				
Total Xylenes	7.18	0.0250	7.50		95.8	70-130				
Gurrogate: Bromofluorobenzene	0.509		0.500		102	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130				
Surrogate: Toluene-d8	0.503		0.500		101	70-130				
Matrix Spike (2508040-MS1)				Source:	E502158-	02	Prepared: 02	2/18/25 Analy	zed: 02/19/25	
Benzene	2.33	0.0250	2.50	ND	93.3	48-131				
Ethylbenzene	2.38	0.0250	2.50	ND	95.3	45-135				
Toluene	2.47	0.0250	2.50	ND	98.9	48-130				
-Xylene	2.51	0.0250	2.50	ND	100	43-135				
,m-Xylene	5.17	0.0500	5.00	ND	103	43-135				
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135				
Gurrogate: Bromofluorobenzene	0.520	·	0.500		104	70-130			·	
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130				
Surrogate: Toluene-d8	0.505		0.500		101	70-130				
Matrix Spike Dup (2508040-MSD1)				Source:	E502158-	02	Prepared: 02	2/18/25 Analy	zed: 02/19/25	
Benzene	2.24	0.0250	2.50	ND	89.5	48-131	4.11	23		
Ethylbenzene	2.36	0.0250	2.50	ND	94.3	45-135	1.08	27		
Toluene	2.41	0.0250	2.50	ND	96.3	48-130	2.70	24		
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	3.02	27		
o,m-Xylene	4.98	0.0500	5.00	ND	99.6	43-135	3.77	27		
Total Xylenes	7.42	0.0250	7.50	ND	98.9	43-135	3.52	27		
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130				



0.500

0.500

103

99.5

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

0.515

0.498

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/21/20251:42:33PM

Nonhalogenated (Organics by	EPA 8015D - GRO
------------------	-------------	-----------------

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2508040-BLK1)				Prepared: 02	2/18/25 Anal	yzed: 02/19/25						
Gasoline Range Organics (C6-C10)	ND	20.0										
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130						
Surrogate: Toluene-d8	0.504		0.500		101	70-130						
LCS (2508040-BS2)							Prepared: 02	2/18/25 Anal	yzed: 02/19/25			
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130		<u> </u>				
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130						
Surrogate: Toluene-d8	0.528		0.500		106	70-130						
Matrix Spike (2508040-MS2)				Source:	E502158-	02	Prepared: 02/18/25 Analyzed: 02/19/25					
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130						
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130						
Surrogate: Toluene-d8	0.508		0.500		102	70-130						
Matrix Spike Dup (2508040-MSD2)				Source:	E502158-	02	Prepared: 02	2/18/25 Anal	yzed: 02/19/25			
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.5	70-130	5.03	20				
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130						
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130						
Surrogate: Toluene-d8	0.513		0.500		103	70-130						



Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/21/20251:42:33PM

	Nonhal	logenated Or		Analyst: NV								
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2508042-BLK1)							Prepared: 02/18/25 Analyzed: 02/18/25					
Diesel Range Organics (C10-C28)	ND	25.0										
Oil Range Organics (C28-C36)	ND	50.0										
Surrogate: n-Nonane	57.7		50.0		115	61-141						
LCS (2508042-BS1)							Prepared: 02/18/25 Analyzed: 02/18/2					
Diesel Range Organics (C10-C28)	294	25.0	250		118	66-144						
Surrogate: n-Nonane	58.4		50.0		117	61-141						
Matrix Spike (2508042-MS1)				Source:	E502154-0	05	Prepared: 0	2/18/25 Anal	yzed: 02/18/25			
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	56-156						
Surrogate: n-Nonane	60.9		50.0		122	61-141						
Matrix Spike Dup (2508042-MSD1)				Source:	E502154-0	05	Prepared: 0	2/18/25 Anal	yzed: 02/18/25			
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	56-156	3.71	20				
Surrogate: n-Nonane	64.5		50.0		129	61-141						



Chloride

Chloride

Chloride

Matrix Spike (2508048-MS1)

Matrix Spike Dup (2508048-MSD1)

255

266

261

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Firethorn CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo						Reported: 2/21/2025 1:42:33PM	
		Analyst: AK							
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2508048-BLK1)]	Prepared: 0	2/18/25 A	nalyzed: 02/18/25
Chloride	ND	20.0							
LCS (2508048-BS1)	Prepared: 02/18/25 Analyzed: 02								

250

250

250

20.0

20.0

20.0

102

106

104

Source: E502155-02

Source: E502155-02

ND

90-110

80-120

80-120

1.87

Prepared: 02/18/25 Analyzed: 02/18/25

Prepared: 02/18/25 Analyzed: 02/18/25

20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/21/25 13:42

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chai	in d	of C	ust	odv
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						Cilaii	i Oi Cus	tou	,														—	-
Client Information					Invoice Information			Lab Use Only						TAT						State				
Client: Matador Production Company Company: Ensolum LLC						Lab '	WO#	Job N			_	1D	2D	3D St	<u> </u>	NM	CO UT	TX						
Project: Firethorn CTB								ES	02	<u>50</u>		230	<u>131</u>	m	4			X	╛	X	L_		_	
Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy					City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055				Analysis							and -			_	EPA Program				
City, State, Zip: Carlsbad NM, 88220				nail: agiovengo@ensolum	com			<u> </u>	Т	7		19313	and I	Ivieti				SE	OWA I	CWA	RCRA	\forall		
Phone: 575-988-0055				cellaneous:			1	1 1											$\neg \dagger$					
Email: a	giovengo@e	nsolum.co	om										I						ļ		nplianc	e Y	or 1	7
. .							<u>.</u>) 8 p	by 8015	77	8	0.0	Σ	ř	tals		ŀ	PW	/SID#			4
			1		ple Information	on	- ba	ч .	a b	8	8	by 80	y 82	de 3	ွှဲ	ģ	ğ W				Remarks		-	
Time Sampled	Date Sampled	Matrix	No. of Containe			Sample ID	Field	al Nu	ab mber	DRO/ORO by 8015	GRO/DRO by	ВТЕХ ЬУ 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			_				_
1134	2114125	5	1		550	3-01			1_						X				_					_
1323	2/14/25	5	1		SSC	3-1		1	2						X					1				_
																								_
•																								
								1	_										\top					\exists
Addition	al Instruction	ns: Plea	se CC:	cburton@er	solum.com. a	giovengo@ensolum.com,	chamilto	n@er	solun	n.con	لــــــ n, ies	trell	a@ei	nsolı	ım.co	om, k	odea	l@en	solum.	com,				\dashv
	ns@ensolum						<u>.</u>																	
	••	•			e. I am aware that	tampering with or intentionally misla	abeling the sa	mple l	ocation,	, date o	r time	of coll	ection	is con:	sidered	l fraud	and m	nay be :	grounds fo	r legal	action.			
Sampled by:	Chad Ham. Signatur) نوط ed	ilton <i>, Je<u>nn</u></i>		ite	Time	Received by: (Signature)	Dat	e	-	Time					Sample	s requi	ring the	rmal pr	eservation (nust be	received o	n ice the day	they are	
Keiiiquisii	Su Oy (Signatur			2/17/25	1100	Michelle Gonz	B 1	147	.25		00											out less than 6		
	ed by: (Signatur	e)		1-17:25	1630	Received by: (Signature)	Dat	e	25	Time					Lab Use Only Received on ice: (Y)/ N									
Relinquish	ed by: Signatur	e)		2 · 17. 25	Time 2245	Received by: (Signature)	Dat 2	18.	5	36					T1				T2			T3		
Relinquish	ed by: (Signatur	e)		ate	Time	Redicted Horizon	Dat	e		Time					AVG	Tem	np °C	_4						
Sample Matrin C. Sail Sd. Salid Sa. Sludge A. Aguegus O. Other			<u> </u>	L	- 10	ntaine	r Type	D. 6 - 0	olacc	n - n	lv/nl	astic	26 - 2	ambe	rela	SS V -	VOAL	Т				ᅥ		

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is

applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Printed: 2/18/2025 8:51:18AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	02/18/25	08:00	Worl	k Order ID:	E502156
Phone:	(972) 371-5200	Date Logged In:	02/17/25	15:06	Logg	ged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	02/24/25	17:00 (4 day TAT)			
Chain o	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mate	ch the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Cor	urier		
4. Was th	he COC complete, i.e., signatures, dates/times, request	ted analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		Yes			Comments	/Resolution
Sample	Turn Around Time (TAT)	ш.		Г			
	ne COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	•		140				
	sample cooler received?		Yes				
	, was cooler received in good condition?		Yes				
•	he sample(s) received intact, i.e., not broken?						
			Yes				
	e custody/security seals present?		No				
-	s, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes				
	visible ice, record the temperature. Actual sample	temperature: 4	<u>C</u>				
	<u>Container</u>						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	e appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field La							
	e field sample labels filled out with the minimum infor	rmation:	Vos				
	Sample ID? Date/Time Collected?		Yes	L			
	Collectors name?		Yes Yes				
Sample	Preservation		103				
	s the COC or field labels indicate the samples were pro	eserved?	No				
	sample(s) correctly preserved?		NA				
	b filteration required and/or requested for dissolved m	etals?	No				
	nase Sample Matrix						
	s the sample have more than one phase, i.e., multiphas	se?	No				
	s, does the COC specify which phase(s) is to be analy		NA				
		zcu.	NA				
	tract Laboratory						
	samples required to get sent to a subcontract laborator	-	No				
29. Was	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab: 1	NA		
Client l	<u>Instruction</u>						

Date

Page 13 of 13

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E502158

Job Number: 23003-0002

Received: 2/18/2025

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 2/24/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/24/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E502158

Date Received: 2/18/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/18/2025 8:00:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Firethorn CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Keportea:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/24/25 13:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E502158-01A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH01-1'	E502158-02A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH01-2'	E502158-03A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH01-3'	E502158-04A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH01-4'	E502158-05A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH01-5'	E502158-06A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH02-0'	E502158-07A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH02-1'	E502158-08A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH02-2'	E502158-09A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH02-3'	E502158-10A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.
BH02-4'	E502158-11A	Soil	02/14/25	02/18/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/24/2025 1:08:25PM

BH01-0' E502158-01

		E302130-01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	•		Batch: 2508040
Benzene	ND	0.0250		1	02/18/25	02/19/25	Buten: 20 000 10
Ethylbenzene	0.0445	0.0250		1	02/18/25	02/19/25	
Toluene	ND	0.0250		1	02/18/25	02/19/25	
o-Xylene	0.139	0.0250		1	02/18/25	02/19/25	
p,m-Xylene	0.204	0.0500		1	02/18/25	02/19/25	
Total Xylenes	0.342	0.0250		1	02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		105 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		102 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2508040
Gasoline Range Organics (C6-C10)	27.1	20.0		1	02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		105 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		102 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	HM		Batch: 2508044
Diesel Range Organics (C10-C28)	2600	25.0		1	02/18/25	02/19/25	
Oil Range Organics (C28-C36)	976	50.0		1	02/18/25	02/19/25	
Surrogate: n-Nonane		112 %	61-141		02/18/25	02/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	AK		Batch: 2508048
Chloride	2810	40.0		2	02/18/25	02/18/25	



Matador Resources, LLC.Project Name:Firethorn CTB5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo2/24/2025 1:08:25PM

BH01-1'

E502158-02

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2508040
Benzene	ND	0.0250		1	02/18/25	02/19/25	
Ethylbenzene	ND	0.0250		1	02/18/25	02/19/25	
Toluene	ND	0.0250		1	02/18/25	02/19/25	
o-Xylene	ND	0.0250		1	02/18/25	02/19/25	
p,m-Xylene	ND	0.0500		1	02/18/25	02/19/25	
Total Xylenes	ND	0.0250	į	1	02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		101 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2508040
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		103 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		101 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	HM		Batch: 2508044
Diesel Range Organics (C10-C28)	ND	25.0		1	02/18/25	02/19/25	
Oil Range Organics (C28-C36)	ND	50.0		1	02/18/25	02/19/25	
Surrogate: n-Nonane		112 %	61-141		02/18/25	02/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	AK		Batch: 2508048
						·	·



Matador Resources, LLC.Project Name:Firethorn CTB5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo2/24/2025 1:08:25PM

BH02-0'

E502158-07

		Reporting					
Analyte	Result	Limit	Dilut	ion Prepa	ared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: SL			Batch: 2508040
Benzene	ND	0.0250	1	02/18	8/25	02/19/25	
Ethylbenzene	ND	0.0250	1	02/18	3/25	02/19/25	
Toluene	ND	0.0250	1	02/18	3/25	02/19/25	
o-Xylene	ND	0.0250	1	02/18	3/25	02/19/25	
p,m-Xylene	ND	0.0500	1	02/18	8/25	02/19/25	
Total Xylenes	ND	0.0250	1	02/18	8/25	02/19/25	
Surrogate: Bromofluorobenzene		105 %	70-130	02/18	8/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/18	8/25	02/19/25	
Surrogate: Toluene-d8		101 %	70-130	02/18	8/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: SL			Batch: 2508040
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/18	8/25	02/19/25	
Surrogate: Bromofluorobenzene		105 %	70-130	02/18	8/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	02/18	8/25	02/19/25	
Surrogate: Toluene-d8		101 %	70-130	02/18	8/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: HM			Batch: 2508044
Diesel Range Organics (C10-C28)	850	25.0	1	02/18	3/25	02/19/25	
Oil Range Organics (C28-C36)	352	50.0	1	02/18	8/25	02/19/25	
Surrogate: n-Nonane	·	114 %	61-141	02/18	8/25	02/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: AK			Batch: 2508048



Matador Resources, LLC.Project Name:Firethorn CTB5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo2/24/2025 1:08:25PM

BH02-1'

E502158-08

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: S	SL		Batch: 2508040
Benzene	ND	0.0250	1		02/18/25	02/19/25	
Ethylbenzene	ND	0.0250	1		02/18/25	02/19/25	
Toluene	ND	0.0250	1		02/18/25	02/19/25	
o-Xylene	ND	0.0250	1		02/18/25	02/19/25	
p,m-Xylene	ND	0.0500	1		02/18/25	02/19/25	
Total Xylenes	ND	0.0250	1		02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		102 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: S	SL		Batch: 2508040
Gasoline Range Organics (C6-C10)	ND	20.0	1		02/18/25	02/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130		02/18/25	02/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/18/25	02/19/25	
Surrogate: Toluene-d8		102 %	70-130		02/18/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: H	łМ		Batch: 2508044
Diesel Range Organics (C10-C28)	ND	25.0	1		02/18/25	02/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1		02/18/25	02/19/25	
Surrogate: n-Nonane		109 %	61-141		02/18/25	02/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: A	ΛK		Batch: 2508048
Amons by ETA 500.0/3030A							

Matador Resources, LLC. Project Name: Firethorn CTB Reported:
5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002
Dallas TX, 75240 Project Manager: Ashley Giovengo 2/24/2025 1:08:25PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			2/24	4/2025 1:08:25PM
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2508040-BLK1)							Prepared: 02	2/18/25 Analy	zed: 02/19/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
LCS (2508040-BS1)							Prepared: 02	2/18/25 Analy	zed: 02/19/25
Benzene	2.22	0.0250	2.50		88.9	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.3	70-130			
Toluene	2.33	0.0250	2.50		93.3	70-130			
o-Xylene	2.35	0.0250	2.50		93.9	70-130			
p,m-Xylene	4.84	0.0500	5.00		96.7	70-130			
Total Xylenes	7.18	0.0250	7.50		95.8	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.517		0.500		103	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike (2508040-MS1)				Source:	E502158-	02	Prepared: 02	2/18/25 Analy	zed: 02/19/25
Benzene	2.33	0.0250	2.50	ND	93.3	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.3	45-135			
Toluene	2.47	0.0250	2.50	ND	98.9	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	5.17	0.0500	5.00	ND	103	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			
Matrix Spike Dup (2508040-MSD1)				Source:	E502158-	02	Prepared: 02	2/18/25 Analy	zed: 02/19/25
Benzene	2.24	0.0250	2.50	ND	89.5	48-131	4.11	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.3	45-135	1.08	27	
Toluene	2.41	0.0250	2.50	ND	96.3	48-130	2.70	24	
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135	3.02	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.6	43-135	3.77	27	
Total Xylenes	7.42	0.0250	7.50	ND	98.9	43-135	3.52	27	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Jui 10 gaic. 1,2-Dichiolocinune-u+	0.313		0.500			, 0 150			



0.500

99.5

70-130

0.498

Surrogate: Toluene-d8

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/24/20251:08:25PM

Nonhalogenated	Organics by	v EPA 8015D	- GRO

Analyst: SL

Analyte	Result	Reporting Limit	Level	Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2508040-BLK1)						I	Prepared: 02	2/18/25 Analy	yzed: 02/19/25	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130				
Surrogate: Toluene-d8	0.504		0.500		101	70-130				

LCS (2508040-BS2)					Prepared: 02/18/25 Analyzed: 02/19/25
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	103	70-130
Surrogate: Bromofluorobenzene	0.508		0.500	102	70-130

 Surrogate: 1,2-Dichloroethane-d4
 0.493
 0.500
 98.6
 70-130

 Surrogate: Toluene-d8
 0.528
 0.500
 106
 70-130

Matrix Spike (2508040-MS2)				Source:	E502158-0	02	Prepared: 02/18/25 Analyzed: 02/19/25
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130	
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130	
Surrogate: Toluene-d8	0.508		0.500		102	70-130	

Matrix Spike Dup (2508040-MSD2)				Source	E502158-	02	Prepared: 02	2/18/25 Analyzed: 02/19/25
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.5	70-130	5.03	20
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130		
Surrogate: Toluene-d8	0.513		0.500		103	70-130		

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/24/2025 1:08:25PM

,		, ,		, .	2				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: HM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2508044-BLK1)							Prepared: 0	2/18/25 Ana	alyzed: 02/19/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.6		50.0		115	61-141			
LCS (2508044-BS1)							Prepared: 0	2/18/25 Ana	alyzed: 02/19/25
Diesel Range Organics (C10-C28)	287	25.0	250		115	66-144			
Surrogate: n-Nonane	56.2		50.0		112	61-141			
Matrix Spike (2508044-MS1)				Source:	E502158-	08	Prepared: 0	2/18/25 Ana	alyzed: 02/19/25
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	56-156			
Surrogate: n-Nonane	54.9		50.0		110	61-141			
Matrix Spike Dup (2508044-MSD1)				Source:	E502158-0	08	Prepared: 0	2/18/25 Ana	alyzed: 02/19/25
Diesel Range Organics (C10-C28)	300	25.0	250	ND	120	56-156	4.86	20	
Surrogate: n-Nonane	58.4		50.0		117	61-141			

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Firethorn CTB 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/24/2025 1:08:25PM

		Anions	s by EPA 3	00.0/9056	4				Analyst: AK
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2508048-BLK1)							Prepared: 0	2/18/25 An	alyzed: 02/18/25
Chloride	ND	20.0							
LCS (2508048-BS1)							Prepared: 0	2/18/25 An	alyzed: 02/18/25
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2508048-MS1)				Source:	E502155-	02	Prepared: 0	2/18/25 An	alyzed: 02/18/25
Chloride	266	20.0	250	ND	106	80-120			
Matrix Spike Dup (2508048-MSD1)				Source:	E502155-	02	Prepared: 0	2/18/25 An	alyzed: 02/18/25
Chloride	261	20.0	250	ND	104	80-120	1.87	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/24/25 13:08

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

	Clie	nt Inform	nation			Invoice Information					La	b Us	e On	ly				T/	AT		State
Client: N	/latador Prod	luction Co	mpany		Co	mpany: Ensolum LLC	*		Lab	WO#			Job 1				1D	2D	3D	Std	NM CO UT TX
	Firethorn CT					dress: 3122 National Parks Hw			E	502	15	8	230	<u>03 ·</u>	WX					Х	х
Project N	/lanager: Asl	hley Giove	engo		Cit	y, State, Zip: Carlsbad NM, 882	220														
	3122 Nation				Ph:	one: 575-988-0055							Ana	lysis	and	Met	hod				EPA Program
	e, Zip: Carls		88220		<u>En</u>	nail: agiovengo@ensolum.co	m														SDWA CWA RCRA
	575-988-005 <u>!</u>				Mis	cellaneous:															
Email: a	giovengo@e	nsolum.co	<u>om</u>]	015	8015										Compliance Y or N
										by 8		121	8	00.0	Σ	¥	tals				PWSID#
				Sam	ple Information	on				8	8	08 ∕	v 82	de 3(J	905	ž				
Time Sampled	Date Sampled	Matrix	No. of Container			Sample ID	Field	Nui	ab mber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
1306	2/14/25	S	l		R И	02-41		1	1					i '	X						Do not ran 13G00C unless BH02-3' 7100TPH or 600
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bsimmo	ns@ensolum	n.com	lauthentic	ity of this samn	le I am aware that	tampering with or intentionally mislabeling	ng the sar	nnle io	ration.	date o	r time	of col	lection	is con	sidered	d frauc	d and m	nav be	groun	ds for	legal action.
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	ed by: (Signatur		Da		Time	Received by: (Signature)	Date	-		Time	_		Ι	-	Sample	es requ	iring the	ermal p	reserva	tion mu	st be received on ice the day they are
			2	117/25	1100	Michelle Gonzale	ر ا ي <u>ا</u>	17.	15	li	σo				sample	ed or re	ceived p	packed			temp above 0 but less than 6 °C on
	ed by: (Signatur		Da		Time	Received by: (Signature)	Date		15	Time	63) ~									se Only
Relinguish	chelle G	ongol	es d	-17.25	1630	Received by: imature)	Date	_	レフ		ڪما	70	1		Rece	eived	on i	ce:	C)/ N	
, ciliquisiii	Lade.	. الأن		.17.25	2745	Cattly Flan	12	82	5	Time	00)			<u>T1</u>				<u>T2</u>		<u>T3</u>
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<u></u>		11.6- 51		0 6:1	<u> </u>	<u></u>		taina	r Type	1.0.	alace	n - n		actic	IAVG	len	np °C		. VOA	_	
Noto: Sample	rix: S - Soil, Sd - S	ond, Sg - Slud	age, A - Aq	ueous, O - Othe	eren	rrangements are made. Hazardous sa															he analysis of the above samples is
						e liability of the laboratory is limited t							,JJCU (J. 01 1	c cilc	EX	,p-113E		. cpoi	(S.

(2)

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Printed: 2/18/2025 8:53:28AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	02/18/25	08:00		Work Order ID:	E502158
Phone:	(972) 371-5200	Date Logged In:	02/17/25	15:11		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	02/24/25	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			<u>Comment</u>	s/Resolution
Sample T	Turn Around Time (TAT)						1 0010011
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes		Client Rem	arks for sam	ples 2,3,4,9 & 11.
Sample (<u>Cooler</u>				stating do n	ot run for B	GDOC if previous
7. Was a	sample cooler received?		Yes		sample is >	100TPH or >	>600C1.
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
	<u>Container</u>						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are n	on-VOC samples collected in the correct containers	?	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lal	<u>oel</u>						
	field sample labels filled out with the minimum info	ormation:	**				
	ample ID?		Yes				
	rate/Time Collected? collectors name?		Yes				
	Preservation		Yes				
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
	ise Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	Na				
	, does the COC specify which phase(s) is to be analy		No				
		yzeu:	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborato	•	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	b: NA		
Client II	<u>istruction</u>						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E502208

Job Number: 23003-0002

Received: 2/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/27/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/27/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E502208

Date Received: 2/22/2025 5:00:10AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/22/2025 5:00:10AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Firethorn CTB	
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/27/25 09:14

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH03-0'	E502208-01A Soil	02/20/25	02/22/25	Glass Jar, 2 oz.
BH03-1'	E502208-02A Soil	02/20/25	02/22/25	Glass Jar, 2 oz.
BH04-0'	E502208-03A Soil	02/20/25	02/22/25	Glass Jar, 2 oz.
BH04-1'	E502208-04A Soil	02/20/25	02/22/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/27/2025 9:14:35AM

BH03-0' E502208-01

		E302200-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2508126
Benzene	ND	0.0250	1	02/22/25	02/22/25	
Ethylbenzene	ND	0.0250	1	02/22/25	02/22/25	
Toluene	ND	0.0250	1	02/22/25	02/22/25	
o-Xylene	ND	0.0250	1	02/22/25	02/22/25	
p,m-Xylene	ND	0.0500	1	02/22/25	02/22/25	
Total Xylenes	ND	0.0250	1	02/22/25	02/22/25	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: BA		Batch: 2508126
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/25	02/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2508137
Diesel Range Organics (C10-C28)	323	25.0	1	02/22/25	02/24/25	
Oil Range Organics (C28-C36)	200	50.0	1	02/22/25	02/24/25	
Surrogate: n-Nonane		99.9 %	61-141	02/22/25	02/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: IY		Batch: 2509002
Chloride	223	20.0	1	02/23/25	02/23/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/27/2025 9:14:35AM

BH03-1'

E50	122	1O	α
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: BA		Batch: 2508126
Benzene	ND	0.0250	1	02/22/25	02/22/25	
Ethylbenzene	ND	0.0250	1	02/22/25	02/22/25	
Toluene	ND	0.0250	1	02/22/25	02/22/25	
o-Xylene	ND	0.0250	1	02/22/25	02/22/25	
p,m-Xylene	ND	0.0500	1	02/22/25	02/22/25	
Total Xylenes	ND	0.0250	1	02/22/25	02/22/25	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: BA		Batch: 2508126
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/25	02/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2508137
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/25	02/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/25	02/24/25	
Surrogate: n-Nonane		100 %	61-141	02/22/25	02/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: IY		Batch: 2509002



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/27/2025 9:14:35AM

BH04-0'

		E502208-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2508126
Benzene	ND	0.0250	1	02/22/25	02/22/25	
Ethylbenzene	ND	0.0250	1	02/22/25	02/22/25	
Toluene	ND	0.0250	1	02/22/25	02/22/25	
o-Xylene	ND	0.0250	1	02/22/25	02/22/25	
p,m-Xylene	ND	0.0500	1	02/22/25	02/22/25	
Total Xylenes	ND	0.0250	1	02/22/25	02/22/25	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2508126
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/25	02/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2508137
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/25	02/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/25	02/24/25	
Surrogate: n-Nonane		105 %	61-141	02/22/25	02/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2509002
Chloride	820	40.0	2	02/23/25	02/23/25	



Chloride

Sample Data

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/27/2025 9:14:35AM

BH04-1'

		E502208-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2508126
Benzene	ND	0.0250	1	02/22/25	02/22/25	
Ethylbenzene	ND	0.0250	1	02/22/25	02/22/25	
Toluene	ND	0.0250	1	02/22/25	02/22/25	
o-Xylene	ND	0.0250	1	02/22/25	02/22/25	
p,m-Xylene	ND	0.0500	1	02/22/25	02/22/25	
Total Xylenes	ND	0.0250	1	02/22/25	02/22/25	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2508126
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/25	02/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2508137
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/25	02/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/25	02/24/25	
Surrogate: n-Nonane		102 %	61-141	02/22/25	02/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2509002

20.0

ND

02/23/25

02/23/25



Firethorn CTB Matador Resources, LLC. Project Name: Reported: Project Number: 23003-0002 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 Project Manager: Ashley Giovengo 2/27/2025 9:14:35AM **Volatile Organics by EPA 8021B** Analyst: BA Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2508126-BLK1) Prepared: 02/22/25 Analyzed: 02/22/25 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 o-Xylene ND 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.89 8.00 98.7 70-130

LCS (2508126-BS1)					Prepared: 02	/22/25 Analyzed: 02/22/25
Benzene	5.27	0.0250	5.00	105	70-130	
Ethylbenzene	5.15	0.0250	5.00	103	70-130	
Toluene	5.24	0.0250	5.00	105	70-130	
o-Xylene	5.21	0.0250	5.00	104	70-130	
p,m-Xylene	10.5	0.0500	10.0	105	70-130	
Total Xylenes	15.7	0.0250	15.0	105	70-130	
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00	100	70-130	

Matrix Spike (2508126-MS1)			Source:	E502205-0)5	Prepared: 02/22/25 Analyzed: 02/22/25	
Benzene	5.28	0.0250	5.00	ND	106	54-133	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	
Toluene	5.24	0.0250	5.00	ND	105	61-130	
o-Xylene	5.22	0.0250	5.00	ND	104	63-131	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131	
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130	

Matrix Spike Dup (2508126-MSD1)					Source: E502205-05			Prepared: 02/22/25 Analyzed: 02/22/25		
Benzene	5.62	0.0250	5.00	ND	112	54-133	6.28	20		
Ethylbenzene	5.49	0.0250	5.00	ND	110	61-133	6.47	20		
Toluene	5.58	0.0250	5.00	ND	112	61-130	6.32	20		
o-Xylene	5.54	0.0250	5.00	ND	111	63-131	5.89	20		
p,m-Xylene	11.2	0.0500	10.0	ND	112	63-131	6.25	20		
Total Xylenes	16.7	0.0250	15.0	ND	111	63-131	6.13	20		
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130				

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Firethorn CTB Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 2/27/2025 0.14.25 4 3 4

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			2/2	7/2025 9:14:35AM		
Nonhalogenated Organics by EPA 8015D - GRO									Analyst: BA		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes		
Blank (2508126-BLK1)							Prepared: 0	2/22/25 Anal	yzed: 02/22/25		
Gasoline Range Organics (C6-C10)	ND	20.0							<u>- </u>		
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.9	70-130					
LCS (2508126-BS2)							Prepared: 0	2/22/25 Anal	yzed: 02/22/25		
Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.7	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.0	70-130					
Matrix Spike (2508126-MS2)				Source:	E502205-	05	Prepared: 0	2/22/25 Anal	yzed: 02/22/25		
Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.1	70-130					
Matrix Spike Dup (2508126-MSD2)				Source:	E502205-	05	Prepared: 0	2/22/25 Anal	yzed: 02/22/25		
Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.2	70-130	1.22	20			

8.00

85.3

70-130

6.82



Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo2/27/20259:14:35AM

,		, ,		, ,	2				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2508137-BLK1)							Prepared: 0	2/22/25 Ana	alyzed: 02/23/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.3		50.0		103	61-141			
LCS (2508137-BS1)							Prepared: 0	2/22/25 Ana	alyzed: 02/23/25
Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144			
Surrogate: n-Nonane	51.6		50.0		103	61-141			
Matrix Spike (2508137-MS1)				Source:	E502207-	05	Prepared: 0	2/22/25 Ana	alyzed: 02/23/25
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	56-156			
Surrogate: n-Nonane	52.9		50.0		106	61-141			
Matrix Spike Dup (2508137-MSD1)				Source:	E502207-	05	Prepared: 0	2/22/25 Ana	alyzed: 02/23/25
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.2	56-156	11.0	20	
Surrogate: n-Nonane	55.3		50.0		111	61-141			

Matrix Spike Dup (2509002-MSD1)

Chloride

1580

20.0

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	: 2	Firethorn CTB 23003-0002 Ashley Gioven	go			2	Reported: /27/2025 9:14:35AM
		Anions	by EPA	300.0/9056	A				Analyst: IY
Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2509002-BLK1)							Prepared: 0	2/23/25 Ana	alyzed: 02/23/25
Chloride LCS (2509002-BS1)	ND	20.0					Prepared: 0	2/23/25 Ana	alyzed: 02/23/25
Chloride	252	20.0	250		101	90-110			•
Matrix Spike (2509002-MS1)				Source:	E502205-	-11	Prepared: 0	2/23/25 Ana	alyzed: 02/23/25
Chloride	1560	20.0	250	1370	77.5	80-120			M4

250

Source: E502205-11

86.8

80-120

1.47

1370

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 02/23/25 Analyzed: 02/23/25

20

Definitions and Notes

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/27/25 09:14

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

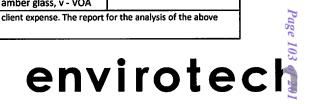


Released to Imaging: 4/25/2025 2:20:34 PM

Page	_1_	of	<u> </u>
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Client Information	Invoice Information				Lat	b Us	e On	ly				TA	T		State
Client: Matador	Company: Ensolum LLC		Lab	WO#	-06	;	1 dol				1D	2D	3D !		NM CO UT TX
Project: Firethorn CTB	Address: 3122 National Parks Hwy		E2	022	208		73	200	a				<u> </u>		X I I I
Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy	City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055	<u>, </u>	il i				Δna	lveis	and I	Meth	hod			\neg	EPA Program
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com	-	1 1	П	-т		7110	17313	1	T				\dashv	SDWA CWA RCRA
Phone: 575-988-0055	Miscellaneous:		1 1							ı			ŀ	ı	
Email: agiovengo@ensolum.com			l L	8015	22			İ						[Compliance Y or N
•					8	_₹	္က	8	Σ	¥	tals			ļ	PWSID #
	Information		-	8	횙	8	y 826	g	z ن	905	ž Š				Remarks
Time Sampled Date Sampled Matrix No. of Containers		Field INN T	.ab mber	DRO/ORO by	GRO/DRO by 8015	BTEX by 8021	voc by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
0906 2-2025 S 1 BHC	3 - 0'	1							Х						
0909 2-20-25 S 1 B HC	3 - 0' 3 - 1' 4 - 0'	2							X						
1006 2-20-26 S 1 BHG	4-0'	-	3						X						
1010 Z-20-25 S 1 BHO	4- 1'	1	1						۴						
Additional Instructions: Please CC: agiovengo@e	nsolum.com, chamilton@ensolum.com, ies	trella@	ensolu	ım.co	om, b	sim	mon	s@er	nsolu	m.co	m, j	gonz	alez@	en:	solum.com
I, (field sampler), attest to the validity and authenticity of this sample. Sampled by: Higinio Gonzalez	am aware that tampering with or intentionally mislabeling t	the sample i	location	, date o	or time	of col	lection	is con	sidere	d fraud	l and r	may be	ground	ds for	legal action.
Relinquished by: (Signature) Date Tir	Received by: (Signature) Nichelle Gonzales	2.21	-25	Time	BOI	0			sample	d or rec	elved p				st be received on ice the day they are temp above 0 but less than 6 °C on
Relinguished by: (Signature) Date Tir		Date 1.2		Time	<u>.</u> Сч					ived		ce:	_	Us / N	e Only
Relinquished by: (Signature) Date Tir 1.21,25	Requived by: (Signature)	Daty 2 24		Time	30	A.0			T1			- - •	T2		тз
Relinquished by: (Signature) Date Tir	e Backwad by: (Signature)	Date	<u> </u>	Time		5-1	57.6	٠	<u></u>		-	ــــــــــــــــــــــــــــــــــــــ	<u> </u>		
	Noe Soto	Z-22-	Z 5	05	00					Tem					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other_		Containe	er Type	e: g - {	glass,	p - p									faraha arabata akaba abarra
Note: Samples are discarded 14 days after results are reported samples is applicable only to those samples received by the lal	-	•					•			cuent	expe	ense.	ine rej	JOPE 1	for the analysis of the above





Printed: 2/24/2025 3:02:50PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	02/22/25 0	05:00		Work Order ID:	E502208
Phone:	(972) 371-5200	Date Logged In:	02/21/25 1	6:08		Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	02/28/25 1	17:00 (4 day TAT)			
Chain of	Cuesto du (COC)						
	Custody (COC)		Vos				
	ne sample ID match the COC? ne number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?	en the coc	Yes	a . a			
	e COC complete, i.e., signatures, dates/times, reques	tad analysas?	Yes Yes	Carrier: <u>C</u>	<u>ourier</u>		
	Il samples received within holding time?	ied analyses?	Yes				
J. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		ies	_		Comments	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C		temperature. 1	<u> </u>				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	•	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat	· · · · · · · · · · · · · · · · · · ·	iers conecteur	103				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		Yes				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	. NI A		
		so who.	1421	Subcontract Lab	, NA		
Client Ir	<u>astruction</u>						
L							

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E502270

Job Number: 23003-0002

Received: 2/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/5/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/5/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E502270

Date Received: 2/27/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/27/2025 4:30:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Firethorn CTB	Donoutode
ı	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/05/25 08:30

Client Sample ID	Lab Sample ID Matri	Sampled Sampled	Received	Container
BH07-0'	E502270-01A Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
BH07-1'	E502270-02A Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
BH06-0'	E502270-03A Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
BH06-1'	E502270-04A Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
BH05-0'	E502270-05A Soil	02/25/25	02/27/25	Glass Jar, 2 oz.
BH05-2'	E502270-06A Soil	02/25/25	02/27/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/5/2025 8:30:00AM

BH07-0' E502270-01

		E5022/0-01				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2509099
Benzene	ND	0.0250	1	02/27/25	03/03/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/03/25	
Toluene	0.0788	0.0250	1	02/27/25	03/03/25	
o-Xylene	ND	0.0250	1	02/27/25	03/03/25	
o,m-Xylene	ND	0.0500	1	02/27/25	03/03/25	
Total Xylenes	ND	0.0250	1	02/27/25	03/03/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	02/27/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	Analyst: BA		Batch: 2509099
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	02/27/25	03/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	115	25.0	1	02/27/25	02/27/25	
Oil Range Organics (C28-C36)	56.8	50.0	1	02/27/25	02/27/25	
'urrogate: n-Nonane		88.5 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2509102
Chloride	1070	40.0	2	02/27/25	02/27/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/5/2025 8:30:00AM

BH07-1'

		E502270-02				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2509099
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Toluene	ND	0.0250	1	02/27/25	03/01/25	
o-Xylene	ND	0.0250	1	02/27/25	03/01/25	
p,m-Xylene	ND	0.0500	1	02/27/25	03/01/25	
Total Xylenes	ND	0.0250	1	02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		87.0 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2509099
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		85.6 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2509102
Chloride	28.9	20.0	1	02/27/25	02/27/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/5/2025 8:30:00AM

BH06-0' E502270-03

		2002270 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2509099
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Toluene	0.0728	0.0250	1	02/27/25	03/01/25	
o-Xylene	ND	0.0250	1	02/27/25	03/01/25	
p,m-Xylene	0.101	0.0500	1	02/27/25	03/01/25	
Total Xylenes	0.101	0.0250	1	02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		84.8 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: BA		Batch: 2509099
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		89.5 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2509102
Chloride	421	20.0	1	02/27/25	02/27/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/5/2025 8:30:00AM

BH06-1' E502270-04

		E302270-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: BA		Batch: 2509099
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Toluene	ND	0.0250	1	02/27/25	03/01/25	
o-Xylene	ND	0.0250	1	02/27/25	03/01/25	
p,m-Xylene	ND	0.0500	1	02/27/25	03/01/25	
Total Xylenes	ND	0.0250	1	02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		84.4 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2509099
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		89.7 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2509102
Chloride	43.1	20.0	1	02/27/25	02/27/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/5/2025 8:30:00AM

BH05-0'

		E502270-05				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2509099
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Toluene	ND	0.0250	1	02/27/25	03/01/25	
o-Xylene	ND	0.0250	1	02/27/25	03/01/25	
p,m-Xylene	ND	0.0500	1	02/27/25	03/01/25	
Total Xylenes	ND	0.0250	1	02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		89.0 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2509099
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	116	25.0	1	02/27/25	02/27/25	
Oil Range Organics (C28-C36)	89.6	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		87.2 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2509102
Chloride	616	20.0	1	02/27/25	02/27/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/5/2025 8:30:00AM

BH05-2'

		E502270-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2509099
Benzene	ND	0.0250	1	02/27/25	03/01/25	
Ethylbenzene	ND	0.0250	1	02/27/25	03/01/25	
Toluene	ND	0.0250	1	02/27/25	03/01/25	
o-Xylene	ND	0.0250	1	02/27/25	03/01/25	
p,m-Xylene	ND	0.0500	1	02/27/25	03/01/25	
Total Xylenes	ND	0.0250	1	02/27/25	03/01/25	
Surrogate: 4-Bromochlorobenzene-PID		85.1 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2509099
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/27/25	03/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	02/27/25	03/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KH		Batch: 2509096
Diesel Range Organics (C10-C28)	ND	25.0	1	02/27/25	02/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/27/25	02/27/25	
Surrogate: n-Nonane		87.1 %	61-141	02/27/25	02/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2509102
Chloride	250	20.0	1	02/27/25	02/27/25	



QC Summary Data

Matador Resources, LLC.
Project Name: Firethorn CTB
5400 LBJ Freeway, Suite 1500
Project Number: 23003-0002
Dallas TX, 75240
Project Manager: Ashley Giovengo 3/5/2025 8:30:00AM

Volatile Organics by FPA 8021R

Dallas TX, 75240		Project Manager	: As	shley Gioveng	go				3/5/2025 8:30:00AM
		Volatile O	rganics b	y EPA 802	21B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2509099-BLK1)							Prepared: 0	2/27/25 Ar	nalyzed: 02/28/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			
LCS (2509099-BS1)							Prepared: 0	2/27/25 Ar	nalyzed: 02/28/25
Benzene	5.75	0.0250	5.00		115	70-130			
Ethylbenzene	5.62	0.0250	5.00		112	70-130			
Toluene	5.70	0.0250	5.00		114	70-130			
o-Xylene	5.59	0.0250	5.00		112	70-130			
p,m-Xylene	11.4	0.0500	10.0		114	70-130			
Total Xylenes	17.0	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.2	70-130			
Matrix Spike (2509099-MS1)				Source:	E502264-	06	Prepared: 0	2/27/25 Ar	nalyzed: 02/28/25
Benzene	5.31	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.27	0.0250	5.00	ND	105	61-130			
o-Xylene	5.17	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.5	70-130		<u> </u>	
Matrix Spike Dup (2509099-MSD1)				Source:	E502264-	06	Prepared: 0	2/27/25 Ar	nalyzed: 02/28/25
Benzene	5.63	0.0250	5.00	ND	113	54-133	5.78	20	
Ethylbenzene	5.51	0.0250	5.00	ND	110	61-133	5.86	20	
Toluene	5.59	0.0250	5.00	ND	112	61-130	5.86	20	
o-Xylene	5.50	0.0250	5.00	ND	110	63-131	6.18	20	
p,m-Xylene	11.2	0.0500	10.0	ND	112	63-131	5.84	20	
Total Xylenes	16.7	0.0250	15.0	ND	111	63-131	5.95	20	
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			



Surrogate: 1-Chloro-4-fluorobenzene-FID

7.41

QC Summary Data

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo3/5/2025 8:30:00AM

Dallas TX, 75240		Project Manage	r: As	shley Gioven	go			3/5	5/2025 8:30:00AM
	Nor	nhalogenated	Organics	by EPA 80	15D - G	RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2509099-BLK1)							Prepared: 0	2/27/25 Anal	yzed: 02/28/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130			
LCS (2509099-BS2)							Prepared: 0	2/27/25 Anal	yzed: 02/28/25
Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			
Matrix Spike (2509099-MS2)				Source:	E502264-	06	Prepared: 0	2/27/25 Anal	yzed: 02/28/25
Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.1	70-130			
Matrix Spike Dup (2509099-MSD2)				Source:	E502264-	06	Prepared: 0	2/27/25 Anal	yzed: 02/28/25
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130	2.17	20	

92.7

70-130



QC Summary Data

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo3/5/20258:30:00AM

, ,, ,,		, ,		, ,	-				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2509096-BLK1)							Prepared: 0	2/27/25 Ana	alyzed: 02/27/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.6		50.0		85.1	61-141			
LCS (2509096-BS1)							Prepared: 0	2/27/25 Ana	alyzed: 02/27/25
Diesel Range Organics (C10-C28)	197	25.0	250		78.7	66-144			
Surrogate: n-Nonane	43.3		50.0		86.6	61-141			
Matrix Spike (2509096-MS1)				Source:	E502271-	05	Prepared: 0	2/27/25 Ana	alyzed: 02/27/25
Diesel Range Organics (C10-C28)	215	25.0	250	ND	85.8	56-156			
Surrogate: n-Nonane	46.1		50.0		92.1	61-141			
Matrix Spike Dup (2509096-MSD1)				Source:	E502271-	05	Prepared: 0	2/27/25 Ana	alyzed: 02/27/25
Diesel Range Organics (C10-C28)	204	25.0	250	ND	81.5	56-156	5.23	20	
Surrogate: n-Nonane	44.0		50.0		88.1	61-141			



QC Summary Data

Dallas TX, 75240	Project Manager:	Ashley Giovengo EPA 300.0/9056A	3/5/2025 8:30:00AM Analyst: DT
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Firethorn CTB 23003-0002	Reported:

Anions by EPA 300.0/9056A								Analyst: DT					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD %	RPD Limit %	Notes				
	mg/kg	mg/kg	mg/kg	mg/kg	70	70	%0	70	Notes				
Blank (2509102-BLK1)							Prepared: 0	2/27/25	Analyzed: 02/27/25				
Chloride	ND	20.0											
LCS (2509102-BS1)							Prepared: 0	2/27/25	Analyzed: 02/27/25				
Chloride	255	20.0	250		102	90-110							
Matrix Spike (2509102-MS1)				Source:	E502264-0	04	Prepared: 0	2/27/25	Analyzed: 02/27/25				
Chloride	254	20.0	250	ND	102	80-120							
Matrix Spike Dup (2509102-MSD1)				Source:	E502264-0	04	Prepared: 0	2/27/25	Analyzed: 02/27/25				
Chloride	254	20.0	250	ND	102	80-120	0.0185	20					

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

I	Matador Resources, LLC.	Project Name:	Firethorn CTB	
I	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/05/25 08:30

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

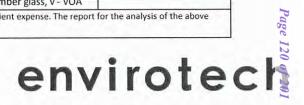
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



-	
Page	of

	Clie	nt Inform	nation			Invoice Informatio	n				La	b Us	e Or	nly				T	AT		State	
Client: N	Matador		407		Co	mpany: Ensolum LLC			Lab \	WO#	†		Job	Num	ber		1D	2D	3D S	Std	NM CO UT TX	
	Firethorn CT	ТВ				dress: 3122 National Parks	Hwy		F5	027	270)	230	03-	000	2			×	_	x	
	Manager: As		engo		Cit	y, State, Zip: Carlsbad NM, 8	88220															
Address	: 3122 Natio	nal Parks	Hwy		Pho	one: 575-988-0055							Ana	lysis	and	Met	hod				EPA Program	
City, Stat	te, Zip: Carls	bad NM,	88220		En	nail: agiovengo@ensolum.	com														SDWA CWA RCRA	4
Phone:	575-988-005	5			Mis	cellaneous:																
Email: a	giovengo@e	nsolum.c	com			25.421.451				15	12										Compliance Y or I	N
										y 80	y 80	-		0.0	5	×	als				PWSID #	
				Sam	ple Informati	on				RO b	80 b	/ 80	826	e 30	Z	- 50	Me					П
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lal Num		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
10:13	2/25/2025	S	1			BH07 - 0'		1							х							
10:18	2/25/2025	S	1			BH07 - 1'		2							х							
10:52	2/25/2025	S	1			BH06 - 0'		3	,			H			х							
10:57	2/25/2025	S	1			BH06 - 1'		L	1						х							
11:36	2/25/2025	S	1			BH05 - 0'		5							х							
11:45	2/25/2025	S	1			BH05 - 2'		L							х							Ī
Addition	nal Instruction	ns: Ple	ase CC: o	burton@e	ensolum.com	agiovengo@ensolum.com,	iestrella	@ensc	olum	n.cor	m, ch	amil	ton(ens	olun	n.cor	n, bs	imm	ons@	ens	olum.com,	
	to@ensolum																					
I, (field sam	pler), attest to th	e validity and	d authentici	y of this samp	ole. I am aware tha	t tampering with or intentionally misla	beling the s	ample loc	cation	, date	or tim	e of co	ollectic	n is co	nsider	ed fra	ud and	may b	e ground	ds for	legal action.	
The same and	: _Oluwale Adei		Face			200 oc - 020 oc - 020 Com-04	-			I			_		I.	ere a.u.	foto a M	Control (ust be received on ice the day they are	
	ned by: (Signatu	re) dexin	Dat	26/25	08:15	Michelle Gonzo	lec 2	2/	7	()	815				sampl	led or n	eceived				g temp above 0 but less than 6 °C on	
- u	ned by: (Signatu		Dat	2010	Time	Received by: (Signature)	Date	e vu	-)	Time	010	_			subse	auent a	lavs		Lal	hH	se Only	
Mie	helle G		2	26.35	1520	Kuhard Prove	1/2	26-2	5	15	20				Rec	eive	d on	ice.		YN		
Relinquist	ned by: (Signatu	re)	Dat	200	Time	Received by: (Signature)	Date	e	_	Time	-		1		1100	CIVC	u 011	icc.		,		
Kick	111	romafe	1 2	26-25	2130	higher a Hel		27.2	25	-	430	0			<u>T1</u>				<u>T2</u>	_	<u>T3</u>	_
Relinquish	ned by: (Signatu	ire)	Dat	2	Time	Received by: (Signature)	Date	e		Time					AVO	G Ter	np °(0	4			
Sample Ma	trix: S - Soil, Sd - S	Solid, Sg - Slu	idge, A - Aqi	ieous, O - Oth	er		Co	ntainer	Тур	e: g -	glass	, p -	poly/	plasti	c, ag	- am	ber g	lass,	v - VO/	4		
						arrangements are made. Hazardo										ne clie	nt exp	ense.	The re	port	for the analysis of the above	
samples is	applicable onl	y to those s	samples re	eived by the	e laboratory with	this COC. The liability of the labor	ratory is lin	nited to	the a	mou	nt pai	d for	on the	repo	rt.							

(3



Printed: 2/27/2025 9:55:21AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

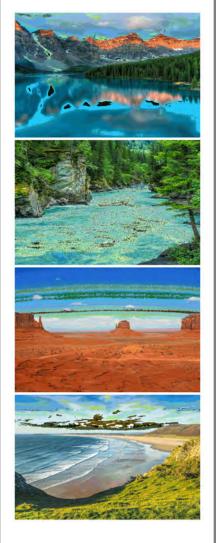
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	02/27/25 (04:30		Work Order ID:	E502270
Phone:	(972) 371-5200	Date Logged In:	02/26/25	14:47		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	03/05/25	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>Co</u>	<u>ourier</u>		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi	•	Yes	_		Comments	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes C				
Sample C							
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contai		Yes				
Field Lal	•						
	— field sample labels filled out with the minimum info	ormation:					
S	ample ID?		Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
	<u>Preservation</u>	10					
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
24. Is lab	filteration required and/or requested for dissolved r	netais?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborate	ory?	No				
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab:	NA		
Client Ir	nstruction						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E503234

Job Number: 23003-0002

Received: 3/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/3/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E503234

Date Received: 3/28/2025 4:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2025 4:00:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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rainaschwanz@envirotech-inc.com

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Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Firethorn CTB	Donoutodi
١	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/03/25 09:46

Client Sample ID	Lab Sample ID M	Matrix	Sampled	Received	Container
SS01A-0'	E503234-01A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 9:46:33AM

SS01A-0' E503234-01

	E503234-01				
	Reporting				
Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: SL		Batch: 2513095
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0500	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
	95.2 %	70-130	03/28/25	03/28/25	
mg/kg	mg/kg	Ana	alyst: SL		Batch: 2513095
ND	20.0	1	03/28/25	03/28/25	
	104 %	70-130	03/28/25	03/28/25	
mg/kg	mg/kg	Ana	alyst: NV		Batch: 2513090
ND	25.0	1	03/28/25	03/28/25	
ND	50.0	1	03/28/25	03/28/25	
	106 %	61-141	03/28/25	03/28/25	
mg/kg	mg/kg	Ana	alyst: AK		Batch: 2513092
476	20.0	1	03/28/25	03/28/25	
	ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MB/kg mg/kg MB/kg mg/kg ND 20.0 104 % mg/kg ND 25.0 ND 50.0 106 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg And ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MD 20.250 1 ND 20.0 1 104 % 70-130 mg/kg mg/kg And ND 25.0 1 ND 50.0 1 106 % 61-141 61-141 mg/kg mg/kg And	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0500 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/28/25 mg/kg mg/kg Analyst: NV ND 25.0 1 03/28/25 ND 50.0 1 03/28/25 ND 50.0 1 03/28/25 ND 50.0 1 03/28/25 Mg/kg Mg/kg Analyst: AK	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 03/28/25 03/28/25 ND 0.0500 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 MD 0.0250 1 03/28/25 03/28/25 mg/kg mg/kg Analyst: SL ND 03/28/25 MD 20.0 1 03/28/25 03/28/25 mg/kg mg/kg Analyst: NV ND 25.0 1 03/28/25 03/28/25 ND 50.0 1 03/28/25 03/28/25 ND 50.0 1 03/28/25 03/28/25 ND 50.0

QC Summary Data

Firethorn CTB Matador Resources, LLC. Project Name: Reported: Project Number: 23003-0002 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 Project Manager: Ashley Giovengo 4/3/2025 9:46:33AM **Volatile Organics by EPA 8021B** Analyst: SL Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2513095-BLK1) Prepared: 03/28/25 Analyzed: 03/28/25 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 o-Xylene ND 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.69 8.00 96.2 70-130

LCS (2513095-BS1)				Prepared: 03/28/25 Analyzed: 03/28/25	
Benzene	4.33	0.0250	5.00	86.6 70-130	86.6 70-130
Ethylbenzene	4.17	0.0250	5.00	83.3 70-130	83.3 70-130
Toluene	4.28	0.0250	5.00	85.6 70-130	85.6 70-130
o-Xylene	4.19	0.0250	5.00	83.7 70-130	83.7 70-130
p,m-Xylene	8.36	0.0500	10.0	83.6 70-130	83.6 70-130
Total Xylenes	12.5	0.0250	15.0	83.6 70-130	83.6 70-130
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00	97.2 70-130	97.2 70-130

Matrix Spike (2513095-MS1)				Source:	E503235-0	04	Prepared: 03/28/25 Analyzed: 03/28/25
Benzene	4.44	0.0250	5.00	ND	88.8	70-130	
Ethylbenzene	4.27	0.0250	5.00	ND	85.4	70-130	
Toluene	4.38	0.0250	5.00	ND	87.7	70-130	
o-Xylene	4.27	0.0250	5.00	ND	85.5	70-130	
o,m-Xylene	8.56	0.0500	10.0	ND	85.6	70-130	
Total Xylenes	12.8	0.0250	15.0	ND	85.6	70-130	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130	

Matrix Spike Dup (2513095-MSD1)				Source:	E503235-	04	Prepared: 03/28/25 Analyzed: 03/28/25		
Benzene	4.06	0.0250	5.00	ND	81.2	70-130	8.91	27	
Ethylbenzene	3.92	0.0250	5.00	ND	78.4	70-130	8.51	26	
Toluene	4.02	0.0250	5.00	ND	80.4	70-130	8.67	20	
o-Xylene	3.92	0.0250	5.00	ND	78.5	70-130	8.50	25	
p,m-Xylene	7.88	0.0500	10.0	ND	78.8	70-130	8.27	23	
Total Xylenes	11.8	0.0250	15.0	ND	78.7	70-130	8.35	26	
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			

Surrogate: 1-Chloro-4-fluorobenzene-FID

Surrogate: 1-Chloro-4-fluorobenzene-FID

Gasoline Range Organics (C6-C10)

Matrix Spike Dup (2513095-MSD2)

8.44

49.6

8.65

QC Summary Data

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo4/3/20259:46:33AM

Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % ank (2513095-BLK1) Prepared: 03/28/25 Analyzer soline Range Organics (C6-C10) ND 20.0									
Analyte	Result		-		Rec		RPD		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2513095-BLK1)							Prepared: 0	3/28/25 Anal	yzed: 03/28/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00		106	70-130			
LCS (2513095-BS2)							Prepared: 0	3/28/25 Anal	yzed: 03/28/25
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.62		8.00		108	70-130			
Matrix Spike (2513095-MS2)				Source:	E503235-	04	Prepared: 0	3/28/25 Anal	yzed: 03/28/25
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			

8.00

50.0

8.00

20.0

70-130

70-130

70-130

Source: E503235-04

99.2

108

ND

Prepared: 03/28/25 Analyzed: 03/28/25

20



QC Summary Data

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo4/3/20259:46:33AM

Dullus 171, 732 10		Troject Manage		mey Groveng	-				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2513090-BLK1)							Prepared: 0	3/28/25 Anal	yzed: 03/28/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	61-141			
LCS (2513090-BS1)							Prepared: 0	3/28/25 Anal	yzed: 03/28/25
Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: n-Nonane	51.0		50.0		102	61-141			
Matrix Spike (2513090-MS1)				Source:	E503233-	05	Prepared: 0	3/28/25 Anal	yzed: 03/28/25
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	51.7		50.0		103	61-141			
Matrix Spike Dup (2513090-MSD1)				Source:	E503233-	05	Prepared: 0	3/28/25 Anal	yzed: 03/28/25
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	56-156	4.94	20	
Surrogate: n-Nonane	52.1		50.0		104	61-141			

Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Firethorn CTB 23003-0002 Ashley Gioveng	o			Reported: 4/3/2025 9:46:33AM		
		Anions	by EPA	300.0/9056A					Analyst: AK	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2513092-BLK1)							Prepared: 0	3/28/25 A	analyzed: 03/28/25	
Chloride	ND	20.0								
LCS (2513092-BS1)							Prepared: 0	3/28/25 A	nalyzed: 03/28/25	
Chloride	252	20.0	250		101	90-110				
Matrix Spike (2513092-MS1)				Source:	E503233-	06	Prepared: 0	3/28/25 A	nalyzed: 03/28/25	
Chloride	1360	20.0	250	1080	113	80-120				
Matrix Spike Dup (2513092-MSD1)				Source:	E503233-	06	Prepared: 0	3/28/25 A	nalyzed: 03/28/25	

250

20.0

1080

116

80-120

0.500

20

1360

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

l	Matador Resources, LLC.	Project Name:	Firethorn CTB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/03/25 09:46

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

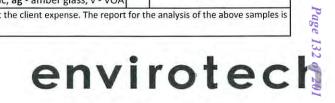
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



	Client Information ent: Matador Production Company piect: Firethorn CTB					Invoice Information	1				La	b Us	e Or	ly			TAT State				e		
Client: N	latador Prod	uction Co	ompany		<u>C</u>	ompany: Ensolum LLC		1	Lab \	WO#			Job	Num	ber		1D	2D	3D	Std	NM	CO UT	TX
					Δ	ddress: 3122 National Parks F	lwy				234		230	203-	000	2		-		Х	X		100
	lanager: Ash					ity, State, Zip: Carlsbad NM, 8	8220																
	3122 Nation				P	none: 575-988-0055	-						Ana	lysis	and	Met	hod			-		A Progr	
	e, Zip: Carlsh		88220			mail: agiovengo@ensolum.c	om														SDWA	CWA	RCRA
	75-988-0055				Mi	scellaneous:										11 3							-
Email: a	giovengo@er	nsolum.c	om							8015	015										Compliand	e Y	or N
										by 8	by 8	171	09	0.008	Σ	×	stals				PWSID#		
100			T-	Sam	ple Informat	ion	-			ORO	ORO	34 80	y 826	de 3	- ·	000	W W					D	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lat Num	b ber	DRO/ORO by	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks	
1548	-48 3/26/25 5 1 SSOIA-0'		DIA-O'		1							X											
	-						+																
																		-		- 4			
														-									
												-							-				
							-4-									- 1							
																			-				
Addition	al Instruction	ns: Plea	se CC: cb	urton@e	nsolum.com,	agiovengo@ensolum.com, ch	amilton	@ensc	olum	ı.con	n, ies	trell	a@e	nsou	lm.c	om,	jgonz	zalez	@ens	solun	n.com,		
					. ihinkle@er le. I am aware th	solum.com at tampering with or intentionally mislabe	eling the sar	nple loca	ation,	date o	r time	of coll	lection	is con	sidere	d fraud	d and n	nay be	ground	ds for l	egal action.		
Sampled by:	Chad Hami	lton																					
Relinquish	ed by: (Signature	e)	Date		Time	Refered by: (Signature)	Date	1-1	~	Time	.55			- 97							st be received o		
1				27/25	1100			271	.)		100)			sample	ed or re	ceived p	packed		E 2 2 173	temp above 0 b	ut less than	5 Con
A. M. C. Stranger		1400	Received by: (Signature)	Date 3	.27.	25	Time	16	30			Rec	eived	d on i	ce:	La		se Only					
Relinquit				1224	Beceived by: (Signature)	Date	28-7	25	Time	100	5			T1				T2			T3		
Relinquish	ed by: (Signature	2)	Date	-	Time	Received by: (Signature)	Date	-0 -		Time					AVG	Ten	np °C	L	1				
Sample Mat	rix: S - Soil, Sd - So	olid, Sg - Slu	dge, A - Aque	ous, O - Othe	r		Con	tainer	Туре	: g - p	glass,	p - po	oly/p						VOA				
						arrangements are made. Hazardous s						-	5.77.79								ne analysis o	f the abov	e samples is

applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.





envirotech Inc.

Printed: 3/28/2025 8:37:45AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	03/28/25	04:00		Work Order ID:	E503234
Phone:	(972) 371-5200	Date Logged In:	03/27/25	13:55		Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	04/03/25	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
5. Were al	Il samples received within holding time?	·	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion					Comments	s/Resolution
	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. 4	<u>c</u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	•	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · · · · · · · · · · · · · · · · · ·	iers conecteur	165				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filtration required and/or requested for dissolved me	tals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	N A		
		so who.	1421	Subcontract Lab	, INA		
Client In	<u>astruction</u>						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E503235

Job Number: 23003-0002

Received: 3/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/3/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/3/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E503235

Date Received: 3/28/2025 4:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2025 4:00:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Matador Resources, LLC.	Project Name:	Firethorn CTB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002 Reported:	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/03/25 09:32

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS01-0.5'	E503235-01A Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS02-0'	E503235-02A Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS03-0.5'	E503235-03A Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS04-0.5'	E503235-04A Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS05-0.5'	E503235-05A Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS06-0.5'	E503235-06A Soil	03/26/25	03/28/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 9:32:53AM

FS01-0.5' E503235-01

	2002200 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: SL		Batch: 2513095
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0500	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
	96.4 %	70-130	03/28/25	03/28/25	
mg/kg	mg/kg	Analy	st: SL		Batch: 2513095
ND	20.0	1	03/28/25	03/28/25	
	105 %	70-130	03/28/25	03/28/25	
mg/kg	mg/kg	Analy	st: NV		Batch: 2513090
ND	25.0	1	03/28/25	03/28/25	
ND	50.0	1	03/28/25	03/28/25	
	97.4 %	61-141	03/28/25	03/28/25	
mg/kg	mg/kg	Analy	st: AK		Batch: 2513092
	mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0 105 % mg/kg MB/kg mg/kg ND 25.0 ND 50.0 97.4 %	Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 MB/kg mg/kg Analy MB/kg mg/kg Analy MB/kg mg/kg Analy ND 25.0 1 ND 50.0 1 97.4 % 61-141	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0500 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 mg/kg 70-130 03/28/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/28/25 mg/kg mg/kg Analyst: NV ND 25.0 1 03/28/25 ND 50.0 1 03/28/25 97.4 % 61-141 03/28/25	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 ND 0.0500 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/28/25 03/28/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/28/25 03/28/25 mg/kg mg/kg Analyst: NV ND 25.0 1 03/28/25 03/28/25 ND 50.0 1 03/28/25 03/28/25 ND 50.0 1 03/28/25 03/28/25 ND 50.0 <



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 9:32:53AM

FS02-0'

		E503235-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2513095
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
o,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2513095
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2513090
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/25	03/28/25	
Surrogate: n-Nonane		103 %	61-141	03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2513092
Chloride	73.2	20.0	1	03/28/25	03/28/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 9:32:53AM

FS03-0.5' E503235-03

		Reporting		_	_	
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2513095
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2513095
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2513090
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/25	03/28/25	
Surrogate: n-Nonane		108 %	61-141	03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: AK		Batch: 2513092
Chloride	116	20.0	1	03/28/25	03/28/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 9:32:53AM

FS04-0.5' E503235-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: SL		Batch: 2513095
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: SL		Batch: 2513095
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2513090
Diesel Range Organics (C10-C28)	115	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	73.3	50.0	1	03/28/25	03/28/25	
Surrogate: n-Nonane		108 %	61-141	03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: AK		Batch: 2513092
Chloride	157	20.0	1	03/28/25	03/28/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 9:32:53AM

FS05-0.5' E503235-05

3/28/25	Analyzed 03/28/25	Notes Batch: 2513095
	03/28/25	Batch: 2513095
	03/28/25	
100/05	03/26/23	
3/28/25	03/28/25	
3/28/25	03/28/25	
3/28/25	03/28/25	
3/28/25	03/28/25	
3/28/25	03/28/25	
3/28/25	03/28/25	
		Batch: 2513095
3/28/25	03/28/25	
3/28/25	03/28/25	
		Batch: 2513090
3/28/25	03/28/25	
3/28/25	03/28/25	
3/28/25	03/28/25	
		Batch: 2513092
3/28/25	03/28/25	
	13/28/25 13/28/25 13/28/25 13/28/25 13/28/25 13/28/25 13/28/25 13/28/25 13/28/25 13/28/25 13/28/25	03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25 03/28/25



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 9:32:53AM

FS06-0.5' E503235-06

	E305255 00				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: SL		Batch: 2513095
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
ND	0.0500	1	03/28/25	03/28/25	
ND	0.0250	1	03/28/25	03/28/25	
	97.6 %	70-130	03/28/25	03/28/25	
mg/kg	mg/kg	Analy	yst: SL	st: SL	
ND	20.0	1	03/28/25	03/28/25	
	97.9 %	70-130	03/28/25	03/28/25	
mg/kg	mg/kg	Analy	yst: NV		Batch: 2513090
33.8	25.0	1	03/28/25	03/28/25	
ND	50.0	1	03/28/25	03/28/25	
	105 %	61-141	03/28/25	03/28/25	
mg/kg	mg/kg	Analy	yst: AK		Batch: 2513092
311	20.0	1	03/28/25	03/28/25	
	mg/kg ND ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 97.6 % mg/kg MD 20.0 97.9 % mg/kg mg/kg mg/kg ND 50.0 105 % mg/kg mg/kg mg/kg	mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 97.6% 70-130 mg/kg mg/kg Analy ND 20.0 1 97.9% 70-130 1 mg/kg mg/kg Analy ND 50.0 1 105% 61-141 61-141 mg/kg mg/kg Analy	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0250 1 03/28/25 ND 0.0500 1 03/28/25 ND 0.0250 1 03/28/25 mg/kg mg/kg Analyst: SL mg/kg mg/kg Analyst: SL ND 20.0 1 03/28/25 mg/kg mg/kg Analyst: NV 33.8 25.0 1 03/28/25 ND 50.0 1 03/28/25 ND 50.0 1 03/28/25 ND 50.0 1 03/28/25 Mg/kg Mg/kg Analyst: AK	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 ND 0.0500 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 ND 0.0250 1 03/28/25 03/28/25 97.6 % 70-130 03/28/25 03/28/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/28/25 03/28/25 mg/kg mg/kg Analyst: NV 33.8 25.0 1 03/28/25 03/28/25 ND 50.0 1 03/28/25 03/28/25 ND 50.0 1 03/28/25 03/28/25 ND 50.0 1 03/28/25 03/28/25 ND



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Firethorn CTB 23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 9:32:53AM

Dallas TX, 75240		Project Manager:		shley Gioveng	go			4/.	3/2025 9:32:53AM	
Volatile Organics by EPA 8021B									Analyst: SL	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2513095-BLK1)							Prepared: 03	3/28/25 Anal	lyzed: 03/28/25	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.2	70-130				
LCS (2513095-BS1)							Prepared: 03	3/28/25 Anal	lyzed: 03/28/25	
Benzene	4.33	0.0250	5.00		86.6	70-130				
Ethylbenzene	4.17	0.0250	5.00		83.3	70-130				
Toluene	4.28	0.0250	5.00		85.6	70-130				
o-Xylene	4.19	0.0250	5.00		83.7	70-130				
p,m-Xylene	8.36	0.0500	10.0		83.6	70-130				
Total Xylenes	12.5	0.0250	15.0		83.6	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130				
Matrix Spike (2513095-MS1)			Source: E503235-04			Prepared: 03/28/25 Analyzed: 03/28/25				
Benzene	4.44	0.0250	5.00	ND	88.8	70-130				
Ethylbenzene	4.27	0.0250	5.00	ND	85.4	70-130				
Toluene	4.38	0.0250	5.00	ND	87.7	70-130				
o-Xylene	4.27	0.0250	5.00	ND	85.5	70-130				
p,m-Xylene	8.56	0.0500	10.0	ND	85.6	70-130				
Total Xylenes	12.8	0.0250	15.0	ND	85.6	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130				
Matrix Spike Dup (2513095-MSD1)				Source: E503235-04		Prepared: 03/28/25 Analyzed: 03/28/25				
Benzene	4.06	0.0250	5.00	ND	81.2	70-130	8.91	27		
Ethylbenzene	3.92	0.0250	5.00	ND	78.4	70-130	8.51	26		
Toluene	4.02	0.0250	5.00	ND	80.4	70-130	8.67	20		
o-Xylene	3.92	0.0250	5.00	ND	78.5	70-130	8.50	25		
p,m-Xylene	7.88	0.0500	10.0	ND	78.8	70-130	8.27	23		
Total Xylenes	11.8	0.0250	15.0	ND	78.7	70-130	8.35	26		



70-130

Surrogate: 4-Bromochlorobenzene-PID

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo4/3/20259:32:53AM

Dallas TX, 75240		Project Manager	r: As	hley Gioveng	go			4	/3/2025 9:32:53AM
	Non		Analyst: SL						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2513095-BLK1)							Prepared: 0	3/28/25 Ana	alyzed: 03/28/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00		106	70-130			
LCS (2513095-BS2)							Prepared: 0	3/28/25 Ana	alyzed: 03/28/25
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.62		8.00		108	70-130			
Matrix Spike (2513095-MS2)				Source:	E503235-	04	Prepared: 0	3/28/25 Ana	alyzed: 03/28/25
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		8.00		106	70-130			

Matrix Spike Dup (2513095-MSD2)				Source:	E503235-	04	Prepared: 02	3/28/25 Analyzed: 03/28/25
Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	3.07	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130		

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo4/3/20259:32:53AM

Bullus 171, 732 10		Troject Manage	. 710	iney Groveng	-				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2513090-BLK1)							Prepared: 0	3/28/25 Ana	lyzed: 03/28/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	61-141			
LCS (2513090-BS1)							Prepared: 0	3/28/25 Ana	lyzed: 03/28/25
Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: n-Nonane	51.0		50.0		102	61-141			
Matrix Spike (2513090-MS1)				Source:	E503233-	05	Prepared: 0	3/28/25 Ana	lyzed: 03/28/25
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	51.7		50.0		103	61-141			
Matrix Spike Dup (2513090-MSD1)				Source:	E503233-	05	Prepared: 0	3/28/25 Ana	lyzed: 03/28/25
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	56-156	4.94	20	
Surrogate: n-Nonane	52.1		50.0		104	61-141			



Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Firethorn CTB 23003-0002 Ashley Gioveng	o				Reported: 4/3/2025 9:32:53AM
		Anions	by EPA	300.0/9056A					Analyst: AK
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2513092-BLK1)							Prepared: 0	3/28/25 A	analyzed: 03/28/25
Chloride	ND	20.0							
LCS (2513092-BS1)							Prepared: 0	3/28/25 A	analyzed: 03/28/25
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2513092-MS1)				Source:	E503233-	06	Prepared: 0	3/28/25 A	analyzed: 03/28/25
Chloride	1360	20.0	250	1080	113	80-120			
Matrix Spike Dup (2513092-MSD1)				Source:	E503233-	06	Prepared: 0	3/28/25 A	analyzed: 03/28/25

250

20.0

1080

116

80-120

0.500

1360

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

l	Matador Resources, LLC.	Project Name:	Firethorn CTB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/03/25 09:32

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



	Clie	nt Inforn	nation		Invoice Inform	mation				La	b Us	e On	ly				T	ΑT			St	ate	
	latador Prod		ompany		Company: Ensolum LLC				WO#			100	Num			1D	2D	3D	Std	NM	col	JT TX	
Project:	Firethorn CT	В			Address: 3122 National F	Parks Hwy		_ E	03:	235	5	23	003	-00	02				X	X			
Project N	lanager: Ash	nley Giov	engo		City, State, Zip: Carlsbad	NM, 88220																	
Address:	3122 Nation	nal Parks	Hwy		Phone: 575-988-0055	THE REPLECE						Ana	lysis	and	Met	hod				EF	A Pro	gram	
City, Stat	e, Zip: Carlsh	oad NM.	88220		Email: agiovengo@enso	olum com														SDWA	CW		RA
	75-988-0055				Miscellaneous:	ordini.com							1						1		20010		-
	giovengo@er		om		Wilscellaricous.				2	L C									1	Compliano	p T	y or	N
citiani. u	Sioverigo & Ci	isorarri.c	0111					_	801	801	_	34	0.		_	S			1	PWSID#		1 01	1.0
				Sample Info	rmation				RO by	RO by	, 8021	8260	e 300	N.	T- 50	Meta			ı				
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	9	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Rema	rks	
0941	3/26/25	5	Ī		FS01-0.5			1						χ									
0951	3/26/25	5	1		F502-015 (2)'		2						X									
0957	3/26/25	5			F503-0.51			3						X									
1025	3/26/25	5	1		FS04-0.51			4						χ									
13/4	3/26/25	5	1		FS05-0.51			5						X									
1459	3/26/25	5	1		F506-0.5			6						X									
							-																
							+															-	
							+							-									_
										1_0													
bmoir@e I, (field samp	ensolum.com oler), attest to the	oaderi validity and	nto@ensol	um.com. ihinkle	com, agiovengo@ensolum.com @ensolum.com are that tampering with or intentionally		17.0							211110						W. K.			
Sampled by: Relinquishe	ed by: (Signature	1000	Date	Time	Referred by: (Fignature)	ngrleg	ate	- 1c	Time					1000		V - E				st be received of temp above 0 l			
	111 10:			7/25 1100		8	J-9	725		100				cuhce	quent d	2Vt	packed				at less th	U C 011	
	d by (Signature	- 1	90			1	3.2	7.25		631	0			Rec	eivec	l on i	ce:	Y		e Only			
lake	ed by: (Signature		3.1	7.23 72	Received by: (Signature)	W 3	ate 3-28	-25	_	400	0			<u>T1</u>				<u>T2</u>			<u>T3</u>		_
1 - 2 -	ed by: (Signature		Date	Time	Received by: (Signature)		ate		Time			L			Ten			1					
	ix: S - Soil, Sd - So							iner Typ			_		_	, ag -	ambe	er gla	ss, v -		1				
Note: Samp	les are discarde	ed 14 days	after results a	are reported unless of	other arrangements are made. Haza	ardous sample:	will b	e returne	ed to c	lient o	r disp	osed	of at t	he clie	ent ex	pense	. The	report	for th	e analysis o	f the at	ove samp	oles i

applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

client expense. The report for the analysis of the above samples is

envirotech

envirotech Inc.

Printed: 3/28/2025 8:38:28AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	03/28/25	04:00	Work Order ID:	E503235
Phone:	(972) 371-5200	Date Logged In:	03/27/25	13:57	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	04/03/25	17:00 (4 day TAT)	, oc	
Chain a	Const. In (COC)					
	Custody (COC)		37			
	he sample ID match the COC? he number of samples per sampling site location mate	ch the COC	Yes			
	camples dropped off by client or carrier?	on the coc	Yes Yes	Ci Ci		
	the COC complete, i.e., signatures, dates/times, request	ted analyses?	Yes	Carrier: <u>Courier</u>		
	all samples received within holding time?	ica anaryses.	Yes			
3. Wole c	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		103		Comment	s/Resolution
	<u> Furn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	, were custody/security seals intact?		NA			
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes <u>C</u>			
Sample (<u>Container</u>					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
	ion-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	bel					
•	field sample labels filled out with the minimum infor	mation:				
S	ample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	10				
	the COC or field labels indicate the samples were pro	eserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
	filtration required and/or requested for dissolved me	tais?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphas		No			
27. If yes	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	amples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if	-	No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E503251

Job Number: 23003-0002

Received: 3/31/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/4/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/4/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E503251

Date Received: 3/31/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/31/2025 7:30:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

Matador Resources, LLC.	Project Name:	Firethorn CTB	Donoutodi
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/04/25 13:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07-0.5'	E503251-01A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS08-0'	E503251-02A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS09-0.5'	E503251-03A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS10-0.5'	E503251-04A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS11-0.5'	E503251-05A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS12-0.5'-1'	E503251-06A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS14-1'	E503251-07A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:36:49PM

FS07-0.5' E503251-01

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: S	SL		Batch: 2514007
Benzene	ND	0.0250	1		03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	Į.	03/31/25	04/01/25	
Toluene	ND	0.0250	1	Į.	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	Į.	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	Į.	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1		03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/31/25	04/01/25	
Surrogate: Toluene-d8		105 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: S	SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		102 %	70-130		03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/31/25	04/01/25	
Surrogate: Toluene-d8		105 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: k	СН		Batch: 2514021
Diesel Range Organics (C10-C28)	ND	25.0	1		03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	ļ	03/31/25	04/01/25	
Surrogate: n-Nonane		99.3 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: I)T		Batch: 2514034



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:36:49PM

FS08-0' E503251-02

		E303231-02				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
· ·				Analyst: SL	7 mary 20d	Batch: 2514007
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	F		0.4/0.4/0.5	Batch: 2314007
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		106 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		106 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KH		Batch: 2514021
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
Surrogate: n-Nonane		91.9 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2514034
Chloride	249	40.0	2	03/31/25	04/01/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:36:49PM

FS09-0.5' E503251-03

Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	A	nalyst: SL		Batch: 2514007
ND	0.0250	1	03/31/25	04/01/25	
ND	0.0250	1	03/31/25	04/01/25	
ND	0.0250	1	03/31/25	04/01/25	
ND	0.0250	1	03/31/25	04/01/25	
ND	0.0500	1	03/31/25	04/01/25	
ND	0.0250	1	03/31/25	04/01/25	
	101 %	70-130	03/31/25	04/01/25	
	106 %	70-130	03/31/25	04/01/25	
	105 %	70-130	03/31/25	04/01/25	
mg/kg	mg/kg	A	nalyst: SL		Batch: 2514007
ND	20.0	1	03/31/25	04/01/25	
	101 %	70-130	03/31/25	04/01/25	
	106 %	70-130	03/31/25	04/01/25	
	105 %	70-130	03/31/25	04/01/25	
mg/kg	mg/kg	A	nalyst: KH		Batch: 2514021
ND	25.0	1	03/31/25	04/01/25	_
ND	50.0	1	03/31/25	04/01/25	
	75.9 %	61-141	03/31/25	04/01/25	
mg/kg	mg/kg	A	nalyst: DT		Batch: 2514034
ND	20.0	1	03/31/25	04/01/25	
	mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IOI % 106 % 105 % mg/kg ND 20.0 101 % 106 % 105 % mg/kg Mg/kg mg/kg ND 25.0 ND 50.0 75.9 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg A ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 106 % 70-130 105 % 70-130 mg/kg mg/kg A ND 20.0 1 101 % 70-130 106 % 70-130 105 % 70-130 mg/kg mg/kg A ND 25.0 1 ND 50.0 1 75.9 % 61-141 61-141 mg/kg mg/kg A	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 03/31/25 ND 0.0250 1 03/31/25 ND 0.0250 1 03/31/25 ND 0.0250 1 03/31/25 ND 0.0500 1 03/31/25 ND 0.0250 1 03/31/25 ND 70-130 03/31/25 106 % 70-130 03/31/25 105 % 70-130 03/31/25 ND 20.0 1 03/31/25 106 % 70-130 03/31/25 106 % 70-130 03/31/25 105 % 70-130 03/31/25 105 % 70-130 03/31/25 105 % 70-130 03/31/25 105 % 70-130 03/31/25 ND 25.0 1 03/31/25 ND 50.0 1 03/31/25 ND	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 03/31/25 04/01/25 ND 0.0500 1 03/31/25 04/01/25 ND 0.0250 1 03/31/25 04/01/25 ND 0.0250 1 03/31/25 04/01/25 106 % 70-130 03/31/25 04/01/25 106 % 70-130 03/31/25 04/01/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/31/25 04/01/25 106 % 70-130 03/31/25 04/01/25 105 % 70-130 03/31/25 04/01/25 mg/kg mg/kg Analyst: KH ND 25.0 1

Matador Resources, LLC.Project Name:Firethorn CTB5400 LBJ Freeway, Suite 1500Project Number:23003-0002Reported:Dallas TX, 75240Project Manager:Ashley Giovengo4/4/2025 1:36:49PM

FS10-0.5' E503251-04

Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: SL		Batch: 2514007
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		105 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		105 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KH		Batch: 2514021
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
Surrogate: n-Nonane		96.9 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2514034
Chloride	ND	20.0	1	03/31/25	04/01/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:36:49PM

FS11-0.5' E503251-05

	1000101				
Result	Reporting Limit		on Prepared	Analyzed	Notes
mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2514007
ND	0.0250	1	03/31/25	04/01/25	
ND	0.0250	1	03/31/25	04/01/25	
ND	0.0250	1	03/31/25	04/01/25	
ND	0.0250	1	03/31/25	04/01/25	
ND	0.0500	1	03/31/25	04/01/25	
ND	0.0250	1	03/31/25	04/01/25	
	102 %	70-130	03/31/25	04/01/25	
	101 %	70-130	03/31/25	04/01/25	
	104 %	70-130	03/31/25	04/01/25	
mg/kg	mg/kg	Aı	nalyst: SL		Batch: 2514007
ND	20.0	1	03/31/25	04/01/25	
	102 %	70-130	03/31/25	04/01/25	
	101 %	70-130	03/31/25	04/01/25	
	104 %	70-130	03/31/25	04/01/25	
mg/kg	mg/kg	Aı	nalyst: KH		Batch: 2514021
486	25.0	1	03/31/25	04/01/25	
347	50.0	1	03/31/25	04/01/25	
	95.0 %	61-141	03/31/25	04/01/25	
mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2514034
	mg/kg ND ND ND ND ND ND ND ND ND ND Additional content of the cont	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ID 0.0250 ID 102 % 101 % 104 % mg/kg mg/kg ND 20.0 102 % 101 % 104 % 104 % mg/kg mg/kg 486 25.0 347 50.0 95.0 %	Result Limit Dilution mg/kg mg/kg A ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 101 % 70-130 104 % 70-130 mg/kg mg/kg A ND 20.0 1 102 % 70-130 101 % 70-130 104 % 70-130 mg/kg mg/kg A 486 25.0 1 347 50.0 1 95.0 % 61-141	Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 03/31/25 ND 0.0250 1 03/31/25 ND 0.0250 1 03/31/25 ND 0.0250 1 03/31/25 ND 0.0500 1 03/31/25 ND 0.0250 1 03/31/25 ND 70-130 03/31/25 101 % 70-130 03/31/25 104 % 70-130 03/31/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/31/25 101 % 70-130 03/31/25 101 % 70-130 03/31/25 104 % 70-130 03/31/25 104 % 70-130 03/31/25 104 % 70-130 03/31/25 104 % 70-130 03/31/25 104 % 70-130 03/31/25 104 % 70-130 <t< td=""><td>Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 03/31/25 04/01/25 ND 0.0500 1 03/31/25 04/01/25 ND 0.0250 1 03/31/25 04/01/25 ND 0.0250 1 03/31/25 04/01/25 ND 70-130 03/31/25 04/01/25 101% 70-130 03/31/25 04/01/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/31/25 04/01/25 102% 70-130 03/31/25 04/01/25 101% 70-130 03/31/25 04/01/25 104% 70-130 03/31/25 04/01/25 104% 70-130</td></t<>	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 03/31/25 04/01/25 ND 0.0500 1 03/31/25 04/01/25 ND 0.0250 1 03/31/25 04/01/25 ND 0.0250 1 03/31/25 04/01/25 ND 70-130 03/31/25 04/01/25 101% 70-130 03/31/25 04/01/25 mg/kg mg/kg Analyst: SL ND 20.0 1 03/31/25 04/01/25 102% 70-130 03/31/25 04/01/25 101% 70-130 03/31/25 04/01/25 104% 70-130 03/31/25 04/01/25 104% 70-130

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:36:49PM

FS12-0.5'-1' E503251-06

		E303231-00				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Maye				1	Maryzea	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2514007
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		103 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		103 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KH		Batch: 2514021
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
Surrogate: n-Nonane		91.5 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: DT		Batch: 2514034
Chloride	249	20.0	1	03/31/25	04/01/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:36:49PM

FS14-1' E503251-07

		E303231-07					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2514007
Benzene	ND	0.0250		1	03/31/25	04/01/25	
Ethylbenzene	0.116	0.0250		1	03/31/25	04/01/25	
Toluene	0.110	0.0250		1	03/31/25	04/01/25	
o-Xylene	0.223	0.0250		1	03/31/25	04/01/25	
o,m-Xylene	0.480	0.0500		1	03/31/25	04/01/25	
Total Xylenes	0.703	0.0250		1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		106 %	70-130		03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		03/31/25	04/01/25	
Surrogate: Toluene-d8		105 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		106 %	70-130		03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		03/31/25	04/01/25	
Surrogate: Toluene-d8		105 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KH		Batch: 2514021
Diesel Range Organics (C10-C28)	103	25.0		1	03/31/25	04/01/25	
Dil Range Organics (C28-C36)	ND	50.0	<u> </u>	1	03/31/25	04/01/25	
Gurrogate: n-Nonane		104 %	61-141	·	03/31/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2514034
Chloride	246	20.0		1	03/31/25	04/01/25	



Matador Resources, LLC. Project Name: Firethorn CTB Reported:
5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002
Dallas TX, 75240 Project Manager: Ashley Giovengo 4/4/2025 1:36:49PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			4/4	1/2025 1:36:49PM
	V	olatile Organ	ic Compo	unds by El	PA 82601	В			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2514007-BLK1)							Prepared: 03	3/31/25 Anal	yzed: 03/31/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
LCS (2514007-BS1)							Prepared: 03	3/31/25 Anal	yzed: 03/31/25
Benzene	2.24	0.0250	2.50		89.5	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.43	0.0250	2.50		97.1	70-130			
o-Xylene	2.46	0.0250	2.50		98.4	70-130			
p,m-Xylene	5.10	0.0500	5.00		102	70-130			
Total Xylenes	7.56	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.523	******	0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.529		0.500		106	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			
Matrix Spike (2514007-MS1)				Source:	E503247-	05	Prepared: 03	3/31/25 Anal	yzed: 03/31/25
Benzene	2.29	0.0250	2.50	ND	91.5	48-131	•	•	<u> </u>
Ethylbenzene	2.37	0.0250	2.50	ND	94.7	45-135			
Toluene	2.46	0.0250	2.50	ND	98.3	48-130			
o-Xylene	2.50	0.0250	2.50	ND	99.9	43-135			
p,m-Xylene	5.19	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.69	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Matrix Spike Dup (2514007-MSD1)				Source:	E503247-	05	Prepared: 03	3/31/25 Anal	yzed: 03/31/25
Benzene	2.14	0.0250	2.50	ND	85.7	48-131	6.53	23	
Ethylbenzene	2.24	0.0250	2.50	ND	89.7	45-135	5.40	27	
Toluene	2.33	0.0250	2.50	ND	93.0	48-130	5.58	24	
o-Xylene	2.37	0.0250	2.50	ND	94.7	43-135	5.39	27	
p,m-Xylene	4.94	0.0500	5.00	ND	98.9	43-135	4.93	27	
Total Xylenes	7.31	0.0250	7.50	ND	97.5	43-135	5.08	27	
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
			0.500		105	50 120			



0.500

105

70-130

0.524

Surrogate: Toluene-d8

QC Summary Data

Firethorn CTB Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 Dallas TX, 75240 Project Manager: Ashley Giovengo 4/4/2025 1:36:49PM

Nonhalogenated	Organica	by FDA	Q015D	CDO
Nonnalogenated	Organics	DV EPA	8015D -	CKC

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2514007-BLK1)							Prepared: 0	3/31/25 Anal	yzed: 03/31/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
LCS (2514007-BS2)							Prepared: 0	3/31/25 Anal	yzed: 03/31/25
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.3	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike (2514007-MS2)		Source:	E503247-	05	Prepared: 03/31/25 Analyzed: 03/31/25		
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130	
Surrogate: Toluene-d8	0.539		0.500		108	70-130	

Matrix Spike Dup (2514007-MSD2)				Source:	E503247-0	05	Prepared: 03	3/31/25 Analyzed: 03/31/25
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130	1.19	20
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130		
Surrogate: Toluene-d8	0.531		0.500		106	70-130		

Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo4/4/2025 1:36:49PM

Danas 1X, 73240		1 Toject Ivianage	7.5	micy Gloveng	30				17 17 2023 1.30. 191 14
	Nonha	logenated Or	ganics by l	EPA 8015I	D - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2514021-BLK1)							Prepared: 03	3/31/25 Ar	nalyzed: 04/01/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.3		50.0		101	61-141			
LCS (2514021-BS1)							Prepared: 03	3/31/25 Ar	nalyzed: 04/01/25
Diesel Range Organics (C10-C28)	236	25.0	250		94.6	66-144			
Surrogate: n-Nonane	46.5		50.0		93.1	61-141			
Matrix Spike (2514021-MS1)				Source:	E503251-0	03	Prepared: 03	3/31/25 Ar	nalyzed: 04/01/25
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.4	56-156			
Surrogate: n-Nonane	46.5		50.0		93.0	61-141			
Matrix Spike Dup (2514021-MSD1)				Source:	E503251-0	03	Prepared: 03	3/31/25 Ar	nalyzed: 04/01/25
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.4	56-156	0.00621	20	
Surrogate: n-Nonane	47.2		50.0		94.3	61-141			

Matrix Spike Dup (2514034-MSD1)

Chloride

501

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number Project Manager	: 23	rethorn CTB 3003-0002 shley Gioveng	go				Reported: 4/4/2025 1:36:49PM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: DT
Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2514034-BLK1)							Prepared: 0	3/31/25 A	nalyzed: 04/01/25
Chloride	ND	20.0							
LCS (2514034-BS1)							Prepared: 0	3/31/25 A	nalyzed: 04/01/25
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2514034-MS1)				Source:	E503251-	02	Prepared: 0	3/31/25 A	nalyzed: 04/01/25
Chloride	510	40.0	250	249	104	80-120			

250

40.0

Source: E503251-02

101

80-120

1.83

249

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 03/31/25 Analyzed: 04/01/25

20

Definitions and Notes

Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/04/25 13:36

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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reinquista	ov: (Signature			128/25		Refleived by: (increasing)	es 3-	78.7	12 Lime	123	1			sample	d or rec	eived p			st be received of temp above 0		
Relinquishe	ed by: (Signature	·	Qat	te	Time 1022	Received by: (Signature)	Date	20.2	Time		_				Lab Use Only						
V V (i.e.	Action (7.6 ed by: (Signature	mgale	(C) Dat	te	Time	Mariana danzala Received by: (Signature)	Date	45-2	Time		L	1		Received on ice: (Y)/ N							
	sa Bon			28.25	2100	Kichard Crowal		28-2		00	•			<u>T1 T2 T3</u>							
Nuh	ed by: (Signature		Dat 3	-28-75	Time 234	Received by: Miss above	Date 3	31.2	S Time	30				ΔVG	Tem	n°C	4	{			
	rix: S -Soil Set So		ge, A - Aqı	ueous, O - Othe	er	- Curred and	Con	tainer T	ype: g -	glass,	p - p	oly/pl	astic,	ag - a	mbe	r glas	s, v - V(JAI	<u> </u>		
lote: Sam	les are discarde	ed 14 days	after resu	lts are report	ed unless other a	nrrangements are made. Hazardous so the liability of the laboratory is limited	amples wil	l be retu	rned to	lient o	or disp	osed o	of at ti	ne clie	nt exp	ense.	The rep	ort for th	he analysis o	of the above	e samples is

enviroteche expense. The report for the analysis of the above samples is

Printed: 3/31/2025 11:21:36AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	03/31/25 (07:30	V	Vork Order ID:	E503251
Phone:	(972) 371-5200	Date Logged In:	03/31/25 ()7:54	ī	ogged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:		17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location mate	ch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: Cou	<u>urier</u>		
4. Was the	COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
5. Were al	l samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comments	s/Resolution
Samula T	i.e, 15 minute hold time, are not included in this disucssio	n.		Г		Comment	
	urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes				
	•		168				
Sample C	ample cooler received?		Yes				
	was cooler received in good condition?						
•	· ·		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes				
13. If no v	risible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	<u>ontainer</u>						
14. Are aq	ueous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers?		Yes				
19. Is the a	ppropriate volume/weight or number of sample contain	ers collected?	Yes				
Field Lab	<u>el</u>						
	field sample labels filled out with the minimum info	rmation:					
	imple ID?		Yes				
	ate/Time Collected?		Yes	_			
	bllectors name?		Yes				
	reservation he COC or field labels indicate the samples were pr	searned?	No				
	mple(s) correctly preserved?	cscived:	NA				
	filtration required and/or requested for dissolved me	tals?	No				
	•		110				
	se Sample Matrix	. 0					
	he sample have more than one phase, i.e., multiphas		No				
27. II yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontra	act Laboratory						
	mples required to get sent to a subcontract laborator	-	No				
29. Was a	subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab: 1	NA		
Client In	<u>struction</u>						

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Firethorn CTB

Work Order: E504005

Job Number: 23003-0002

Received: 4/2/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/8/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/8/25

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Firethorn CTB

Workorder: E504005

Date Received: 4/2/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/2/2025 4:30:00AM, under the Project Name: Firethorn CTB.

The analytical test results summarized in this report with the Project Name: Firethorn CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Michelle Gonzales

Client Representative

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mgonzales@envirotech-inc.com

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Sample Summary

Matador Re	sources, LLC.	Project Name:	Firethorn CTB	Reported:
5400 LBJ F	reeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX,	75240	Project Manager:	Ashley Giovengo	04/08/25 10:52

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS13-1'	E504005-01A Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
FS14-1'	E504005-02A Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
SW01-0-1'	E504005-03A Soil	03/31/25	04/02/25	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/8/2025 10:52:42AM

FS13-1' E504005-01

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	BA		Batch: 2514063
Benzene	ND	0.0250	1	l	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250	1	l	04/02/25	04/03/25	
Toluene	ND	0.0250	1	l	04/02/25	04/03/25	
o-Xylene	ND	0.0250	1	l	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500	1	l	04/02/25	04/03/25	
Total Xylenes	ND	0.0250	1	l	04/02/25	04/03/25	
Surrogate: Bromofluorobenzene		102 %	70-130		04/02/25	04/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/02/25	04/03/25	
Surrogate: Toluene-d8		106 %	70-130		04/02/25	04/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/02/25	04/03/25	
Surrogate: Bromofluorobenzene		102 %	70-130		04/02/25	04/03/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/02/25	04/03/25	
Surrogate: Toluene-d8		106 %	70-130		04/02/25	04/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2514064
Diesel Range Organics (C10-C28)	61.0	25.0	1	[04/02/25	04/03/25	<u> </u>
Oil Range Organics (C28-C36)	ND	50.0	1	l	04/02/25	04/03/25	
Surrogate: n-Nonane		100 %	61-141		04/02/25	04/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	AK		Batch: 2514075
Chloride	533	40.0	2	,	04/02/25	04/03/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/8/2025 10:52:42AM

FS14-1'

		E504005-02					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	BA		Batch: 2514063
Benzene	ND	0.0250		1	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250		1	04/02/25	04/03/25	
Toluene	0.0330	0.0250		1	04/02/25	04/03/25	
o-Xylene	ND	0.0250		1	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500		1	04/02/25	04/03/25	
Total Xylenes	ND	0.0250		1	04/02/25	04/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		04/02/25	04/03/25	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		04/02/25	04/03/25	
Surrogate: Toluene-d8		105 %	70-130		04/02/25	04/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/02/25	04/03/25	
Surrogate: Bromofluorobenzene		104 %	70-130		04/02/25	04/03/25	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		04/02/25	04/03/25	
Surrogate: Toluene-d8		105 %	70-130		04/02/25	04/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2514064
Diesel Range Organics (C10-C28)	39.6	25.0		1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0		1	04/02/25	04/03/25	
Surrogate: n-Nonane		106 %	61-141		04/02/25	04/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	AK		Batch: 2514075
Chloride	111	20.0		1	04/02/25	04/03/25	



Matador Resources, LLC.	Project Name:	Firethorn CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/8/2025 10:52:42AM

SW01-0-1' E504005-03

		E504005-05					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2514063
Benzene	ND	0.0250		1	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250		1	04/02/25	04/03/25	
Toluene	0.0255	0.0250		1	04/02/25	04/03/25	
o-Xylene	ND	0.0250		1	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500		1	04/02/25	04/03/25	
Total Xylenes	ND	0.0250		1	04/02/25	04/03/25	
Surrogate: Bromofluorobenzene		106 %	70-130		04/02/25	04/03/25	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		04/02/25	04/03/25	
Surrogate: Toluene-d8		105 %	70-130		04/02/25	04/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	04/02/25	04/03/25	
Surrogate: Bromofluorobenzene		106 %	70-130		04/02/25	04/03/25	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		04/02/25	04/03/25	
Surrogate: Toluene-d8		105 %	70-130		04/02/25	04/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	138	25.0		1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	74.8	50.0	:	1	04/02/25	04/03/25	
Surrogate: n-Nonane	·	102 %	61-141		04/02/25	04/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: AK		Batch: 2514075
Chloride	519	20.0		1	04/02/25	04/03/25	



Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo4/8/2025 10:52:42AM

Dallas 1A, /3240		Project Manage	r: As	sniey Gioveng	30			4/0	72023 10.32.42AF		
	V	Volatile Organic Compounds by EPA 8260B							Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2514063-BLK1)							Prepared: 04	4/02/25 Anal	yzed: 04/02/25		
Benzene	ND	0.0250					1		,		
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
o-Xylene	ND	0.0250									
p,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: Bromofluorobenzene	0.522	******	0.500		104	70-130					
	0.472		0.500		94.4	70-130					
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.472		0.500		106	70-130					
surrogate. 10tuene-uo	0.329		0.500		100	70-130					
LCS (2514063-BS1)							Prepared: 0	4/02/25 Anal	yzed: 04/02/25		
Benzene	2.63	0.0250	2.50		105	70-130					
Ethylbenzene	2.73	0.0250	2.50		109	70-130					
Toluene	2.76	0.0250	2.50		110	70-130					
o-Xylene	2.97	0.0250	2.50		119	70-130					
p,m-Xylene	5.89	0.0500	5.00		118	70-130					
Total Xylenes	8.86	0.0250	7.50		118	70-130					
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130					
Surrogate: Toluene-d8	0.529		0.500		106	70-130					
Matrix Spike (2514063-MS1)				Source:	E504004-	05	Prepared: 0-	4/02/25 Anal	yzed: 04/02/25		
Benzene	2.66	0.0250	2.50	ND	106	48-131					
Ethylbenzene	2.72	0.0250	2.50	ND	109	45-135					
Toluene	2.75	0.0250	2.50	ND	110	48-130					
o-Xylene	2.91	0.0250	2.50	ND	116	43-135					
p,m-Xylene	5.79	0.0500	5.00	ND	116	43-135					
Total Xylenes	8.70	0.0250	7.50	ND	116	43-135					
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130					
Surrogate: Toluene-d8	0.524		0.500		105	70-130					
Matrix Spike Dup (2514063-MSD1)				Source:	E504004-	05	Prepared: 0	4/02/25 Anal	yzed: 04/02/25		
Benzene	2.37	0.0250	2.50	ND	94.8	48-131	11.5	23			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135	10.2	27			
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	10.7	24			
o-Xylene	2.72	0.0250	2.50	ND	109	43-135	6.70	27			
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135	7.90	27			
Total Xylenes	8.07	0.0250	7.50	ND	108	43-135	7.49	27			
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130					
			0.500		10.	50 15					



0.500

104

70-130

0.522

Surrogate: Toluene-d8

Firethorn CTB Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23003-0002 4/8/2025 10:52:42AM Dallas TX, 75240 Project Manager: Ashley Giovengo

Nonhalogenated Organic	s by EPA 8015D - GRO
------------------------	----------------------

Ana		

Analyte Resi	Reporting lt Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/k	g mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2514063-BLK1)							Prepared: 04	1/02/25 Analy	zed: 04/02/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
LCS (2514063-BS2)							Prepared: 04	1/02/25 Analy	zed: 04/02/25
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			
Matrix Spike (2514063-MS2)				Source:	E504004-	05	Prepared: 04	1/02/25 Analy	zed: 04/02/25
Gasoline Range Organics (C6-C10)	56.5	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
Matrix Spike Dup (2514063-MSD2)				Source:	E504004-	05	Prepared: 04	1/02/25 Analy	zed: 04/02/25
Gasoline Range Organics (C6-C10)	55.0	20.0	50.0	ND	110	70-130	2.57	20	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			



Matador Resources, LLC.Project Name:Firethorn CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo4/8/2025 10:52:42AM

Danas 171, 732 10	Tiofeet intalager. Tiolief Gloverige								
	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: NV	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2514064-BLK1)							Prepared: 0-	4/02/25 Ana	lyzed: 04/03/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.8		50.0		97.5	61-141			
LCS (2514064-BS1)							Prepared: 0	4/02/25 Ana	lyzed: 04/03/25
Diesel Range Organics (C10-C28)	250	25.0	250		100	66-144			
Surrogate: n-Nonane	51.7		50.0		103	61-141			
Matrix Spike (2514064-MS1)				Source: E504001-01		Prepared: 04/02/25 Analyzed: 04/03/25			
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	49.7		50.0		99.3	61-141			
Matrix Spike Dup (2514064-MSD1)				Source:	E504001-0	01	Prepared: 0	4/02/25 Ana	lyzed: 04/03/25
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	56-156	0.0221	20	
Surrogate: n-Nonane	51.8		50.0		104	61-141			

Matrix Spike Dup (2514075-MSD1)

Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	23	rethorn CTB 8003-0002 shley Gioveng	go				Reported: 4/8/2025 10:52:42AM	
Anions by EPA 300.0/9056A									Analyst: AK	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2514075-BLK1)							Prepared: 0-	4/02/25 A	nalyzed: 04/02/25	
Chloride	ND	20.0								
LCS (2514075-BS1)							Prepared: 04/02/25 Analyzed: 04/02/25			
Chloride	252	20.0	250		101	90-110				
Matrix Spike (2514075-MS1)				Source: E504004-08		08	Prepared: 04/02/25 Analyzed: 04/02/25		nalyzed: 04/02/25	
Chloride	257	40.0	250	ND	103	80-120				

250

40.0

Source: E504004-08

99.2

80-120

3.59

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 04/02/25 Analyzed: 04/02/25

20

Definitions and Notes

l	Matador Resources, LLC.	Project Name:	Firethorn CTB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/08/25 10:52

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



		Page	1	_ of	1
	State		1		
со	UT	TX			
					,
			State	State	State

Chain of Custody

	Clier	nt Inforn	nation			Invoice Information	n				La	b Us	e On	ly				TA	T	State
Client: N					C	ompany: Ensolum LLC		L	Lab WO# Job Nun					Num				2D	3D Std	NM CO UT TX
	Fireth		CTB		A	ddress: 3122 National Parks H	Hwy		E5	DY	OC	5	23	00	100	00			х	x
Project N	Manager: Ash	hley Giov	engo		<u>C</u> i	ity, State, Zip: Carlsbad NM, 8	38220				_									
Address:	3122 Nation	nal Parks	Hwy		Pt Pt	none: 575-988-0055							Ana	lysis	and	Met	hod			EPA Program
	e, Zip: Carls		88220		E	mail: agiovengo@ensolum.o	com													SDWA CWA RCRA
Phone: 5	75-988-0055	5			M	iscellaneous:														
Email: a	giovengo@e	nsolum.c	com							115	8015									Compliance Y or N
							1		- 4	y 80	y 80	21	Q	0.0	5	×	sies	-30		PWSID#
				Sam	nple Informat	ion				ROF	RO	y 80.	826	e 30	Z	- 50	Mel			
Time Sampled	Date Sampled	Matrix	No. of Containe	rs		Sample ID	Field	Lak Numl	ber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			Remarks
1005	3/31/25	Soil	1			FS13-11		1							х					
1008	1 (LAV		2							x					
1010					4	Sw01-0-1		3						A	х					
1010					-)0001 0 1	1								х					
										H					х					
							77		+										-	
															Х					
															Х					
							-								х					
						+									х					1
								1							х					
Addition	al Instructio	ns: Ple	ase CC:	cburton@	ensolum.com	n, agiovengo@ensolum.com,	chamilto	n@en	solu	m.c	om, i	estr	ella@	ense	olum	.com	1			
	oler), attest to the		d authenti	city of this same	ple. I am aware th	nat tampering with or intentionally mislab	beling the sa	imple loc	ation,	date	or time	e of co	llectio	n is cor	sidere	ed frau	d and i	may be	grounds fo	r legal action.
A Charle Services	ed by: (Signatur		Da	ate	Time	Received by: (Signature)	Date		-	Time			1000		Sample	es requi	iring the	ermal pr	eservation m	ust be received on ice the day they are
_	20 =	4	4	1/1/25	7=11	Received by: (Signature) Received by: (Signature) Received by: (Signature)	les L	1-1-2	15	U	711									rg temp above 0 but less than 6 °C on
	ed by: Signatur		les l	4-1-25	1615	holes It	4	.1.2	5	Time 1	70	00			Rece	eived	l on i	ce:	Lab U	se Only
Shel	ed by: (Signatur	1.	C	1.1.25	Time VYS	Received by: (Signature)	Date 4	2-2	5	Time	43	0			T1				T2	<u>T3</u>
Relinquish	ed by: (Signatur	re)	Da	ite	Time	Received by: (Signature)	Date			Time					AVG	Ten	np °C	1		
	rix: S - Soil, Sd - S							tainer						olasti	c, ag	- amb	er gl	ass, v	- VOA	
						er arrangements are made. Hazardo										e clien	t expe	ense.	he report	for the analysis of the above

(

Printed: 4/2/2025 9:26:44AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	04/02/25	04:30	Work Order ID:	E504005
Phone:	(972) 371-5200	Date Logged In:	04/01/25	15:27	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	04/08/25	17:00 (4 day TAT)		
Chain of	f Custody (COC)					
	the sample ID match the COC?		Yes			
	the number of samples per sampling site location materials.	th the COC	Yes			
	samples dropped off by client or carrier?		Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, request	ed analyses?	No	Carrier. Courier		
	all samples received within holding time?	•	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio				Comment	ts/Resolution
	<u> Turn Around Time (TAT)</u>					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
•	was cooler received in good condition?		Yes			
	ne sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes <u>C</u>			
Sample	Container _					
	aqueous VOC samples present?		No			
15. Are \	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field La	<u>bel</u>					
20. Were	field sample labels filled out with the minimum infor	mation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation the COC or field labels indicate the samples were pro	ngamiad?	No			
	sample(s) correctly preserved?	sserveu?				
	o filtration required and/or requested for dissolved me	·a1e2	NA No			
		.415:	INU			
	ase Sample Matrix	. 0				
	the sample have more than one phase, i.e., multiphas		No			
27. II yes	s, does the COC specify which phase(s) is to be analy-	zea?	NA			
	ract Laboratory					
	samples required to get sent to a subcontract laborator a subcontract laboratory specified by the client and if		No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

Date



APPENDIX E

NMOCD Correspondence

General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 430987

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	430987
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

Prerequisites					
Incident ID (n#)	nAPP2503441044				
Incident Name	NAPP2503441044 FIRETHORN CTB @ 0				
Incident Type	Oil Release				
Incident Status	Initial C-141 Approved				

Location of Release Source					
Site Name	FireThorn CTB				
Date Release Discovered	02/02/2025				
Surface Owner	Private				

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	13,356
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	02/14/2025
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Separators Containment
Please provide any information necessary for navigation to liner inspection site	32.07774, -103.27376

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 430987

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	430987
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

Created By		Condition Date
j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	2/12/2025

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 444536

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444536
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites					
Incident ID (n#)	nAPP2503441044				
Incident Name	NAPP2503441044 FIRETHORN CTB @ 0				
Incident Type	Oil Release				
Incident Status	Initial C-141 Approved				

Location of Release Source					
Site Name	FireThorn CTB				
Date Release Discovered	02/02/2025				
Surface Owner	Private				

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	2,821	
What is the estimated number of samples that will be gathered	17	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/25/2025	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Isreal Estrella (575) 291-9537	
Please provide any information necessary for navigation to sampling site	32.0774,-103.27376	

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 444536

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444536
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/21/2025

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 444551

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444551
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2503441044
Incident Name	NAPP2503441044 FIRETHORN CTB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	FireThorn CTB
Date Release Discovered	02/02/2025
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	2,821	
What is the estimated number of samples that will be gathered	17	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/26/2025	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Isreal Estrella (575) 291-9537	
Please provide any information necessary for navigation to sampling site	32.0774,-103.27376	

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 444551

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	444551
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/21/2025

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 445623

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	445623
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2503441044
Incident Name	NAPP2503441044 FIRETHORN CTB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	FireThorn CTB
Date Release Discovered	02/02/2025
Surface Owner	Private

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	2,821	
What is the estimated number of samples that will be gathered	15	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2025	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	Isreal Estrella (575) 291-9537	
Please provide any information necessary for navigation to sampling site	32.0774,-103.27376	

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 445623

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	445623
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/25/2025

Phone: (505) 629-6116
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https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 446101

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	446101
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Prerequisites	
Incident ID (n#)	nAPP2503441044
Incident Name	NAPP2503441044 FIRETHORN CTB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	FireThorn CTB
Date Release Discovered	02/02/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,821
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/31/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Isreal Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.0774,-103.27376

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 446101

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	446101
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/27/2025

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 455260

QUESTIONS

ı	Operator:	OGRID:
ı	MATADOR PRODUCTION COMPANY	228937
ı	One Lincoln Centre	Action Number:
ı	Dallas, TX 75240	455260
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Prerequisites	
Incident ID (n#)	nAPP2503441044
Incident Name	NAPP2503441044 FIRETHORN CTB @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	FireThorn CTB
Date Release Discovered	02/02/2025
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Human Error Flow Line - Production Crude Oil Released: 14 BBL Recovered: 2 BBL Lost: 12 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 455260

QUESTIONS (continued)

QOLO II	one (continued)
Operator: MATADOR PRODUCTION COMPANY	OGRID: 228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	455260
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
L =	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	
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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 04/24/2025

Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 455260

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	455260
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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		
itemediation Flan		
Please answer all the questions that apply or are indicated. This information must be provided to	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 contaminatio	n 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)	2810	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3603	
GRO+DRO (EPA SW-846 Method 8015M)	2627	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	03/25/2025	
On what date will (or did) the final sampling or liner inspection occur	03/31/2025	
On what date will (or was) the remediation complete(d)	03/31/2025	
What is the estimated surface area (in square feet) that will be reclaimed	2222	
What is the estimated volume (in cubic yards) that will be reclaimed	86	
What is the estimated surface area (in square feet) that will be remediated	600	
What is the estimated volume (in cubic yards) that will be remediated 19		
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.		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 4

Action 455260

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	455260
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
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	Yes
What is the name of the NMED facility	R360 Hobbs NM
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Jason Touchet Title: EHS Field Rep

Email: jason.touchet@matadorresources.com

Date: 04/24/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 455260

QUESTIONS (continued)

Operator:	OGRID:
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Dallas, TX 75240	455260
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 455260

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	455260
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	446101
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/31/2025
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	2821

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	600			
What was the total volume (cubic yards) remediated	19			
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	2222			
What was the total volume (in cubic yards) reclaimed	86			
Summarize any additional remediation activities not included by answers (above)	N/A			

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: EHS Field Rep
Email: jason.touchet@matadorresources.com
Date: 04/24/2025

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QUESTIONS, Page 7

Action 455260

QUESTIONS (continued)

Operator:	OGRID:
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One Lincoln Centre	Action Number:
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	

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CONDITIONS

Action 455260

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	455260
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Created By	$^{\prime}$	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2503441044 FIRETHORN CTB, thank you. This Remediation Closure Report is approved.	4/25/2025