

August 28, 2025

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

RE: Tri-Annual Vadose Zone Monitoring

2<sup>nd</sup> VZ Sampling Event

TNT Landfarm NM1-8

Facility ID fEEM0112335451

SW/4 SE/4 and SE/4 NW/4 of Section 5 and NE/4 NW/4 of Section 8, Township 25 North, Range 3 West, NMPM

Rio Arriba County, New Mexico

#### To whom it may concern:

On behalf of TNT Environmental (TNT), Ancell Environmental Consulting Services (AECS) has prepared this Tri-Annual Vadose Monitoring Report for the 2<sup>nd</sup> VZ sampling event detailing the compliance soil sampling activities completed at the TNT Landfarm (Site) on April 29, 2025, as required by conditions within NM1-8 and the 19.15.36 New Mexico Administrative Code (NMAC) transitional provisions.

#### SITE BACKGROUND

The Site consists of a 20.5-acre landfarm area located on private land in Section 5 and 8, Township 25 North, Range 3 West in Rio Arriba County, New Mexico (Figure 1). The Site consists of two bermed areas, or cells, with a separate area for processing incoming material and is part of a larger surface waste management facility including three evaporation ponds and associated equipment.

In 1992, the Site was permitted under New Mexico Oil and Gas Conservation Division (NMOCD) Rule 711. The original permit was amended on June 17,

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2005, to modify the sampling frequency from quarterly to tri-annual events. On February 14, 2007, Rule 711 was replaced by 19.15.36 NMAC, commonly referred to as Part 36. From 1992 to 2016, TNT accepted petroleum hydrocarbon impacted soils and drill cuttings for remediation purposes. No soil has been accepted at the facility since 2016.

Based on the existing permit conditions of NM1-8, the 2005 modification approval, and the transitional provisions of 19.15.36.20.A NMAC, vadose zone sampling events occur tri-annually with a minimum of one random vadose soil sample taken from each individual cell between two (2) and three (3) feet (ft) below the native ground surface and submitted for laboratory analysis of constituents identified in NM1-8 and 19.15.36.15(E) NMAC. Laboratory analytical results are compared to background soil concentrations or laboratory practical quantitation limits (PQL or reporting limit) to determine if a release has occurred. The 2nd Vadose Zone (VZ) Sampling event shall be conducted by July 31st of each year and the sampling report for this event shall be submitted no later than August 31st of each year. In accordance with 19.15.36.19 NMAC, on behalf of TNT, AECS submitted a C-137A for the consideration of alternative release assessment criteria in place of 19.15.36.15.E(2) NMAC to complete vadose zone assessment requirements. On July 3, 2025, the minor permit modification request was approved wherein 19.15.29 NMAC Table I Closure Criteria for the depth to groundwater at greater than 100 ft below ground surface (bgs) will be used for the comparison of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride laboratory analytical results in lieu of background levels or PQLs at the Site.

	Benzene	Total BTEX	Total TPH	Chloride
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Table I Closure Criteria (19.15.29.12 NMAC)	10	50	1,000* 2,500**	20,000

<sup>\*</sup>TPH limit as GRO and DRO fractions combined

NM1-8 TNT Landfarm 2nd Vadose Sampling Event 2025 Page 2

<sup>\*\*</sup>TPH limit as GRO, DRO, and ORO fractions combined



#### VADOSE ZONE SAMPLING

The number of vadose zone soil samples collected within each cell was dependent on the size of each cell. Two discrete soil samples were collected from each cell between 2.5 ft to 3 ft below the native ground surface (Figure 2). A shovel was used to clear back the treatment zone soils in the immediate vicinity of each soil boring to minimize any potential downhole cross-contamination. The treatment zone to vadose zone transition was identified by changes in soil type, color, and odor. A hand auger was used to install temporary soil borings to collect representative discrete samples of the vadose zone. Each soil boring was backfilled with bentonite chips, and the GPS coordinate was recorded.

The discrete soil samples were collected into new, precleaned, laboratory provided container and immediately placed on ice in a cooler for transport to Envirotech Laboratory (Envirotech) of Farmington, New Mexico, under strict chain-of-custody (COC) protocol. The date and time sampled, sample number, type of sample, sampler's name and signature, preservative used, and analyses required were all documented on the COC. All soil samples were analyzed for BTEX per the United States Environmental Protection Agency (USEPA) Method 8021B, TPH as gasoline range organics (TPH-GRO), diesel range organics (TPH-DRO), and oil range organics (TPH-ORO)) per USEPA Method 8015M, and chloride per USEPA Method 300.0.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all four soil samples (Cell 1 East Vadose, Cell 1 West Vadose, Cell 2 North Vadose, and Cell 2 South Vadose) reported benzene, BTEX, and TPH concentrations below laboratory detection limits of 0.0250 mg/kg, 0.150 mg/kg, and 95.0 mg/kg, respectively. Chloride concentrations were reported below laboratory detection limits (20.0 mg/kg) for Cell 1 East Vadose. The chloride concentration was reported at 85.6 mg/kg for Cell 1 West Vadose, 110 mg/kg for Cell 2 North Vadose, and 122 mg/kg for Cell 2 South Vadose. The laboratory analytical results are presented in Table 1 and the complete Envirotech Laboratory Analytical Report (E507293) is attached.

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#### **DISCUSSION**

Analytical results for all vadose zone samples reported benzene and BTEX concentrations below laboratory detection limits and the applicable Table I Closure Criteria of 10 mg/kg and 50 mg/kg, respectively. TPH concentrations in all samples were also reported below laboratory detection limits and the applicable Table I Closure Criteria of 1,000 mg/kg as the combined fractions of GRO and DRO and 2,500 mg/kg as the combined fractions of GRO, DRO and ORO. Chloride concentrations were reported above background concentrations and laboratory PQLs but below the applicable 19.15.29 NMAC Table 1 Closure Criteria of 20,000 mg/kg. Pursuant to 19.15.36.15.E NMAC, the vadose zone analytical results from the 2<sup>nd</sup> Vadose Tri-Annual sampling event in July 2025 indicate that there is no evidence of a release that would impact fresh water, human health, or the environment at the TNT Landfarm and no further assessment is required.

If you have any questions or concerns regarding the information provided in this report, please contact AECS at 970-946-9869.

Sincerely,

Emilee Skyles

Emilee Skyles
Project Manager
Ancell Environmental Consulting Services

#### **TABLE**

Table 1. Tri-annual Vadose Zone Monitoring Laboratory Analytical Results

#### **FIGURES**

Figure 1. Site Location Map

Figure 2. Aerial Site Map with Sample Locations

#### **APPENDIX**

Envirotech Laboratory Analytical Report (E507293)

NM1-8 TNT Landfarm 2nd Vadose Sampling Event 2025 Page 4 Received by OCD: 8/31/2025 12:56:46 PM Page 5 of 23

#### Table 1. Tri-annual Vadose Zone Monitoring Analytical Results TNT Landfarm Surface Waste Management Facility fEEM0112335451 Permit NM1-8

			Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Total TPH	TPH (mg/kg)			Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO	DRO	ORO	(mg/kg)
PQL or Back	ground Concentrations		0.0250	0.0250	0.0250	0.0750			<20.0	<25.0	<50.0	<0.5 to 24.3*
NMOCD Tabl	le 1 Site Closure Critera	a (19.15.29 NMAC)**	10	NE	NE	NE	50	1,000 <sup>#</sup> 2,500 <sup>^</sup>				20,000
Sample Date	Sample ID	Sample Depth feet below native ground surface										
7/20/23	Cell 1 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	NA
9/26/23	Cell 1 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	<20.0
4/23/24	Cell 1 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	22.4
7/31/24	Cell 1 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	NA
10/29/24	Cell 1 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	37.9
4/29/25	Cell 1 Vadose	2.5 to 3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	35.0
7/24/25	Cell 1 East Vadose	2.5 to 3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	<20.0
7/24/25	Cell 1 West Vadose	2.5 to 3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	85.6
Sample Date	Sample ID	Sample Depth feet below native ground surface										
7/20/23	Cell 2 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	36.6	<20.0	36.6	<50.0	NA
9/26/23	Cell 2 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	20.1
4/23/24	Cell 2 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	<20.0
7/31/24	Cell 2 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	NA
10/29/24	Cell 2 Vadose	3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	<20.0
4/29/25	Cell 2 Vadose	2.5 to 3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	122
7/24/25	Cell 2 North Vadose	2.5 to 3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	33.6
7/24/25	Cell 2 South Vadose	2.5 to 3	<0.0250	<0.0250	<0.0250	<0.0750	<0.150	<95.0	<20.0	<25.0	<50.0	110

\*Based on laboratory results from 8 background samples submitted to the OCD from 1993 to 2010

\*\*Based on depth to water at greater 100 ft bgs

BTEX - benzene, toluene, ethylbenzene and total xylenes

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics ORO - Oil Range Organics

NA - Not Analyzed

NE - Not Established NMAC - New Mexico Administrative Code

BTEX analyzed per USEPA Method 8021 or 8260

TPH (GRO+DRO+ORO) analyzed per USEPA Method 8015M

Chloride analyzed per USEPA Method 300.0

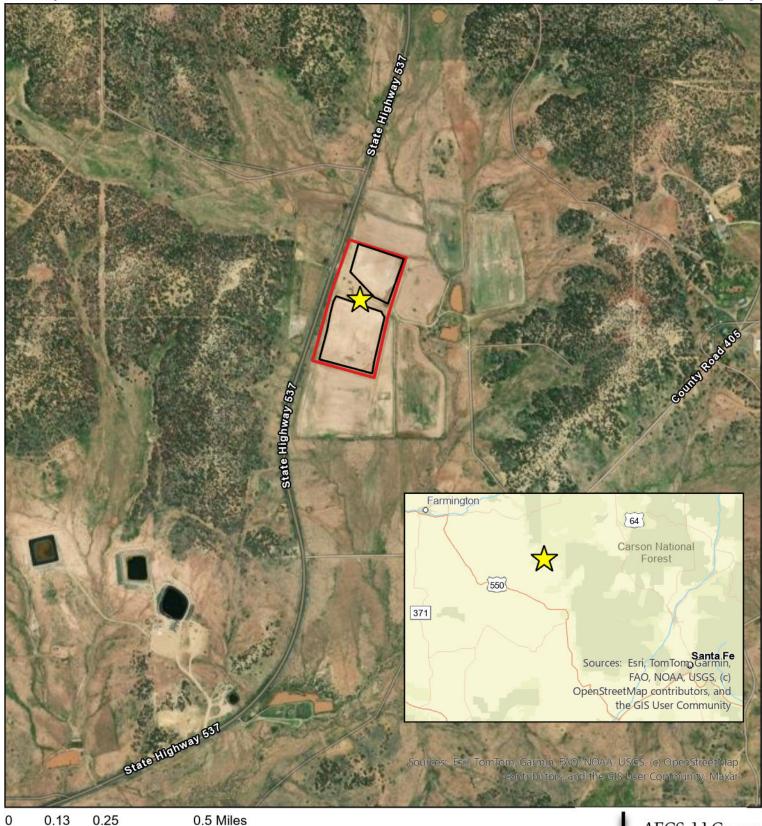
# - TPH limit as GRO+DRO

^ - TPH limit as GRO+DRO+ORO

110 - italics value indicates the reported concentration is above the PQL or background concentration

50 - bold value indicates the reported concentration is above release assessment criteria

Shaded cells indicate the most recent vadose zone sampling event







Project Area

Facility Boundary

Cell 1 & 2 Boundaries

Released to Imaging: 11/7/2025 1:47:59 PM

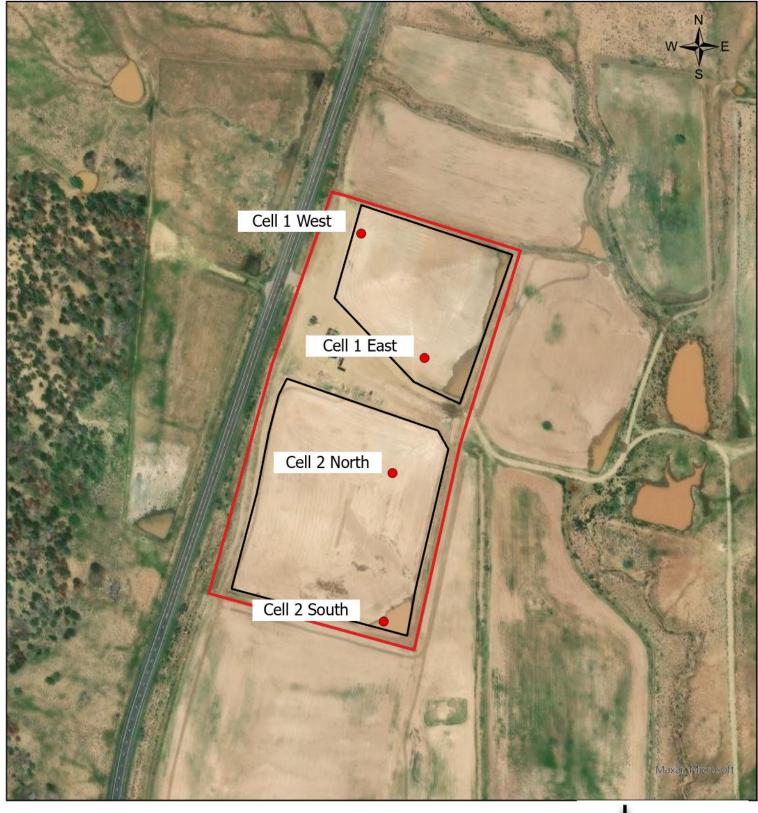
# **TNT Landfarm NM1-8**

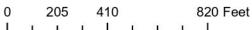
Tri-Annual Vadose Zone Monitoring

SW/4 SE/4 and SE/4 NW/4 of Section 5 and NE/4 NW/4 of Section 8, Township 25 North, Range 3 West, NMPM Rio Arriba County, New Mexico



Figure 1





# Legend

- Facility Boundary
- 2nd Vadose Sampling Locations

Cell 1 & 2 Boundaries Released to Imaging: 11/7/2023 1.47.59 PM

# **TNT Landfarm NM1-8**

Tri-Annual Vadose Zone Monitoring 2nd Sampling Event

SW/4 SE/4 and SE/4 NW/4 of Section 5 and NE/4 NW/4 of Section 8, Township 25 North, Range 3 West, NMPM Rio Arriba County, New Mexico



Figure 2

Sampling event conducted on 7/29/2025

Report to: Emilee Skyles



5796 U.S. Hwy 64 Farmington, NM 87401

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





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# **Analytical Report**

**TNT Environmental** 

Project Name: NM1-8 TNT Landfarm- Vadose

Zone

Work Order: E507293

Job Number: 17009-0001

Received: 7/24/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/31/25

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: 7/31/25

Emilee Skyles PO Box 2530 Farmington, NM 87499

Project Name: NM1-8 TNT Landfarm- Vadose Zone

Workorder: E507293

Date Received: 7/24/2025 2:18:00PM

Emilee Skyles,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2025 2:18:00PM, under the Project Name: NM1-8 TNT Landfarm- Vadose Zone.

The analytical test results summarized in this report with the Project Name: NM1-8 TNT Landfarm- Vadose Zone 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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#### **Sample Summary**

TNT Environmental	Project Name:	NM1-8 TNT Landfarm- Vadose Zone	Reported:
PO Box 2530	Project Number:	17009-0001	Reporteu:
Farmington NM, 87499	Project Manager:	Emilee Skyles	07/31/25 08:59

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
Cell 1 East Vadose	E507293-01A Soil	07/24/25	07/24/25	Glass Jar, 2 oz.
Cell 1 West Vadose	E507293-02A Soil	07/24/25	07/24/25	Glass Jar, 2 oz.
Cell 2 North Vadose	E507293-03A Soil	07/24/25	07/24/25	Glass Jar, 2 oz.
Cell 2 South Vadose	E507293-04A Soil	07/24/25	07/24/25	Glass Jar, 2 oz.



TNT Environmental	Project Name:	NM1-8 TNT Landfarm- Vadose Zone	
PO Box 2530	Project Number:	17009-0001	Reported:
Farmington NM, 87499	Project Manager:	Emilee Skyles	7/31/2025 8:59:06AM

#### Cell 1 East Vadose E507293-01

Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2531015
ND	0.0250	1	07/28/25	07/29/25	
ND	0.0250	1	07/28/25	07/29/25	
ND	0.0250	1	07/28/25	07/29/25	
ND	0.0250	1	07/28/25	07/29/25	
ND	0.0500	1	07/28/25	07/29/25	
ND	0.0250	1	07/28/25	07/29/25	
	85.8 %	70-130	07/28/25	07/29/25	
mg/kg	mg/kg	Ana	lyst: SL		Batch: 2531015
ND	20.0	1	07/28/25	07/29/25	
	94.6 %	70-130	07/28/25	07/29/25	
mg/kg	mg/kg	Ana	lyst: HM		Batch: 2531047
ND	25.0	1	07/29/25	07/30/25	
ND	50.0	1	07/29/25	07/30/25	
	103 %	61-141	07/29/25	07/30/25	
mg/kg	mg/kg	Ana	lyst: JM		Batch: 2531038
ND	20.0	1	07/28/25	07/29/25	
	mg/kg ND ND ND ND ND ND ND ND 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           ND         0.0250           ND         0.0250           85.8 %         mg/kg           Mg/kg         mg/kg           ND         20.0           94.6 %         mg/kg           ND         25.0           ND         50.0           103 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           85.8 %         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           94.6 %         70-130         1           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           103 %         61-141           mg/kg         mg/kg         Anal	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         07/28/25           ND         0.0250         1         07/28/25           ND         0.0250         1         07/28/25           ND         0.0250         1         07/28/25           ND         0.0500         1         07/28/25           ND         0.0250         1         07/28/25           mg/kg         mg/kg         Analyst: SL           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         07/28/25           mg/kg         mg/kg         Analyst: HM           ND         25.0         1         07/29/25           ND         50.0         1         07/29/25           ND         50.0         1         07/29/25           mg/kg         Mg/kg         Analyst: HM	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         07/28/25         07/29/25           ND         0.0250         1         07/28/25         07/29/25           ND         0.0250         1         07/28/25         07/29/25           ND         0.0500         1         07/28/25         07/29/25           ND         0.0500         1         07/28/25         07/29/25           ND         0.0250         1         07/28/25         07/29/25           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         07/28/25         07/29/25           mg/kg         mg/kg         Analyst: SL         07/29/25           mg/kg         mg/kg         Analyst: HM           ND         25.0         1         07/29/25         07/30/25           ND         50.0         1         07/29/25         07/30/25           ND         50.0         1         07/29/25         07/30/25           ND         50.0         1         07/29/25         07/30/25           mg/kg



TNT Environmental	Project Name:	NM1-8 TNT Landfarm- Vadose Zone	
PO Box 2530	Project Number:	17009-0001	Reported:
Farmington NM, 87499	Project Manager:	Emilee Skyles	7/31/2025 8:59:06AM

#### Cell 1 West Vadose

#### E507293-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2531015
Benzene	ND	0.0250	1	07/28/25	07/29/25	
Ethylbenzene	ND	0.0250	1	07/28/25	07/29/25	
Toluene	ND	0.0250	1	07/28/25	07/29/25	
o-Xylene	ND	0.0250	1	07/28/25	07/29/25	
p,m-Xylene	ND	0.0500	1	07/28/25	07/29/25	
Total Xylenes	ND	0.0250	1	07/28/25	07/29/25	
Surrogate: 4-Bromochlorobenzene-PID		85.1 %	70-130	07/28/25	07/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2531015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/25	07/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	07/28/25	07/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: HM		Batch: 2531047
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/25	07/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/25	07/30/25	
Surrogate: n-Nonane		102 %	61-141	07/29/25	07/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2531038



TNT Environmental	Project Name:	NM1-8 TNT Landfarm- Vadose Zone	
PO Box 2530	Project Number:	17009-0001	Reported:
Farmington NM, 87499	Project Manager:	Emilee Skyles	7/31/2025 8:59:06AM

#### Cell 2 North Vadose

#### E507293-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2531015
Benzene	ND	0.0250	1	07/28/25	07/29/25	
Ethylbenzene	ND	0.0250	1	07/28/25	07/29/25	
Toluene	ND	0.0250	1	07/28/25	07/29/25	
o-Xylene	ND	0.0250	1	07/28/25	07/29/25	
p,m-Xylene	ND	0.0500	1	07/28/25	07/29/25	
Total Xylenes	ND	0.0250	1	07/28/25	07/29/25	
Surrogate: 4-Bromochlorobenzene-PID		83.2 %	70-130	07/28/25	07/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: SL		Batch: 2531015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/25	07/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	07/28/25	07/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: HM		Batch: 2531047
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/25	07/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/25	07/30/25	
Surrogate: n-Nonane		101 %	61-141	07/29/25	07/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: JM		Batch: 2531038
Chloride	33.6	20.0	1	07/28/25	07/29/25	



TNT Environmental	Project Name:	NM1-8 TNT Landfarm- Vadose Zone	
PO Box 2530	Project Number:	17009-0001	Reported:
Farmington NM, 87499	Project Manager:	Emilee Skyles	7/31/2025 8:59:06AM

#### **Cell 2 South Vadose**

#### E507293-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: SL		Batch: 2531015
Benzene	ND	0.0250	1	07/28/25	07/29/25	
Ethylbenzene	ND	0.0250	1	07/28/25	07/29/25	
Toluene	ND	0.0250	1	07/28/25	07/29/25	
o-Xylene	ND	0.0250	1	07/28/25	07/29/25	
p,m-Xylene	ND	0.0500	1	07/28/25	07/29/25	
Total Xylenes	ND	0.0250	1	07/28/25	07/29/25	
Surrogate: 4-Bromochlorobenzene-PID		83.3 %	70-130	07/28/25	07/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: SL		Batch: 2531015
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/25	07/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	07/28/25	07/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: HM		Batch: 2531047
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/25	07/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/25	07/30/25	
Surrogate: n-Nonane		103 %	61-141	07/29/25	07/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2531038	



# **QC Summary Data**

		Q C D	<b>4111111</b>	ir y Duc	••						
TNT Environmental		Project Name:		M1-8 TNT La	andfarm- V	/adose Zoi	ne		Reported:		
PO Box 2530		Project Number:	17	7009-0001							
Farmington NM, 87499		Project Manager:	E	milee Skyles					7/31/2025 8:59:06AM		
		Volatile O	rganics l	by EPA 802	21B			Analyst: SL			
Analyte	D14	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	Result mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2531015-BLK1)							Prepared: 0	7/28/25 A	nalyzed: 07/29/25		
Benzene	ND	0.0250					<u> </u>				
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	7.00		8.00		87.5	70-130					
LCS (2531015-BS1)							Prepared: 0	7/28/25 A	nalyzed: 07/29/25		
Benzene	5.04	0.0250	5.00		101	70-130					
Ethylbenzene	4.90	0.0250	5.00		98.1	70-130					
Toluene	4.98	0.0250	5.00		99.5	70-130					
o-Xylene	4.85	0.0250	5.00		97.1	70-130					
o,m-Xylene	9.90	0.0500	10.0		99.0	70-130					
Total Xylenes	14.8	0.0250	15.0		98.4	70-130					
Surrogate: 4-Bromochlorobenzene-PID	6.90		8.00		86.3	70-130					
Matrix Spike (2531015-MS1)				Source:	E507300-	25	Prepared: 0	7/28/25 A	nalyzed: 07/29/25		
Benzene	5.11	0.0250	5.00	ND	102	70-130					
Ethylbenzene	4.98	0.0250	5.00	ND	99.5	70-130					
Toluene	5.06	0.0250	5.00	ND	101	70-130					
o-Xylene	4.95	0.0250	5.00	ND	99.1	70-130					
p,m-Xylene	10.0	0.0500	10.0	ND	100	70-130					
Total Xylenes	15.0	0.0250	15.0	ND	100	70-130					
Surrogate: 4-Bromochlorobenzene-PID	6.96		8.00		87.1	70-130					
Matrix Spike Dup (2531015-MSD1)				Source:	E507300-	25	Prepared: 0	7/28/25 A	nalyzed: 07/29/25		
Benzene	5.75	0.0250	5.00	ND	115	70-130	11.7	27			
Ethylbenzene	5.60	0.0250	5.00	ND	112	70-130	11.8	26			
Toluene	5.70	0.0250	5.00	ND	114	70-130	11.8	20			
o-Xylene	5.54	0.0250	5.00	ND	111	70-130	11.2	25			
p,m-Xylene	11.3	0.0500	10.0	ND	113	70-130	11.6	23			
Total Vylanas	16.9	0.0250	15.0	ND	112	70 120	11.5	26			



16.8

6.93

0.0250

15.0

8.00

ND

112

70-130

70-130

11.5

26

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

# **QC Summary Data**

TNT Environmental	Project Name:	NM1-8 TNT Landfarm- Vadose Zone	Reported:
PO Box 2530	Project Number:	17009-0001	•
Farmington NM, 87499	Project Manager:	Emilee Skyles	7/31/2025 8:59:06AM

Farmington NM, 87499		Project Manage	r: En	nilee Skyles				7/3	1/2025 8:59:06AN
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			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 (2531015-BLK1)							Prepared: 0	7/28/25 Anal	yzed: 07/29/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			
LCS (2531015-BS2)							Prepared: 0	7/28/25 Anal	yzed: 07/29/25
Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			
Matrix Spike (2531015-MS2)				Source:	E507300-2	25	Prepared: 0	7/28/25 Anal	yzed: 07/29/25
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.4	70-130			
Matrix Spike Dup (2531015-MSD2)				Source:	E507300-2	25	Prepared: 0	7/28/25 Anal	yzed: 07/29/25
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	1.31	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			

# **QC Summary Data**

TNT Environmental	Project Name:	NM1-8 TNT Landfarm- Vadose Zone	Reported:
PO Box 2530	Project Number:	17009-0001	
Farmington NM, 87499	Project Manager:	Emilee Skyles	7/31/2025 8:59:06AM

Farmington NM, 8/499		Project Manager	r: En	nilee Skyles					7/31/2025 8:59:06AI
	Nonha	logenated Or	ganics by l	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 (2531047-BLK1)							Prepared: 0	7/29/25 A	nalyzed: 07/29/25
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.6		50.0		95.2	61-141			
LCS (2531047-BS1)							Prepared: 0	7/29/25 A	nalyzed: 07/29/25
Diesel Range Organics (C10-C28)	280	25.0	250		112	66-144			
urrogate: n-Nonane	48.6		50.0		97.2	61-141			
Matrix Spike (2531047-MS1)				Source:	E507284-	05	Prepared: 0	7/29/25 A	nalyzed: 07/29/25
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156			
urrogate: n-Nonane	49.3		50.0		98.7	61-141			
Matrix Spike Dup (2531047-MSD1)				Source:	E507284-0	05	Prepared: 0	7/29/25 A	nalyzed: 07/29/25
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	56-156	0.254	20	
urrogate: n-Nonane	49.3		50.0		98.6	61-141			

Matrix Spike Dup (2531038-MSD1)

Chloride

535

#### **QC Summary Data**

TNT Environmental PO Box 2530 Farmington NM, 87499		Project Name: Project Number: Project Manager	: 1	NM1-8 TNT La 17009-0001 Emilee Skyles	andfarm- V	adose Zoi	ne	7,	Reported: /31/2025 8:59:06AM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: JM
Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2531038-BLK1)							Prepared: 0	7/28/25 Ana	alyzed: 07/29/25
Chloride	ND	20.0							
LCS (2531038-BS1)							Prepared: 0	7/28/25 Ana	alyzed: 07/29/25
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2531038-MS1)				Source:	E507283-	05	Prepared: 0	7/28/25 Ana	alyzed: 07/29/25
Chloride	543	20.0	250	292	100	80-120			

250

20.0

Source: E507283-05

96.9

80-120

1.55

#### 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: 07/28/25 Analyzed: 07/29/25

20

# **Definitions and Notes**

TNT Environmental	Project Name:	NM1-8 TNT Landfarm- Vadose Zone	
PO Box 2530	Project Number:	17009-0001	Reported:
Farmington NM, 87499	Project Manager:	Emilee Skyles	07/31/25 08:59

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.



	Cli	ent Infor	mation		Invo	pice Information				l a	ıb Us	e Ωr	ılv			1		AT					tate	
Client: T	NT Environ				Company: TNT E			- 13	b WQ				Num	har		10		3D	C+d		NAA		UT	
			andfarm.	- Vadose Zone	Address: PO Box				50	ኚዖ	73	17	209	-AA	1	10	120	130	3tu Y		~	-	쒸	<del>''}</del>  -
	Manager: Ei			VAGOSC LONG	City, State, Zip:	73360		1			-	ц.,	۸.,		<u> </u>	1	1			, p	ىد	1		
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				Sample Infor	mation				<b>₹</b>	£ 6	170	92	900	¥	tecals		3	<sub>×</sub>			$\rightarrow$		-	
Time Sampled	Date Sampled	Matrix	lo. of Containers		Sample ID		Filtere	Lab Numbe	DRO/ORO by	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	Chloride 300.0	TCEQ 1905 - TX	RCRA 8 Metals		BGDOC - NM	XT - DOGDE		Sample	Tem		Rema	arks
19:03	7/24/05	s	1		Cell 1 East Vadose	•		1	х	x	x		x							41	0			
9:35		s	1		Cell 1 West Vados	e		2	x	x	x		х						_	4	4			
10:35		s	1		Cell 2 North Vados	se		3	x	x	x		x						•	4.	4			
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	trix: S - Soil, Sd -		ludge, A - Aq	ueous, O - Other		- Landa Harradous		tainer Ty									glass,	v - V						ho abovo

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 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:	TNT Environmental	Date Received:	07/24/25 14	:18	Work Order ID:	E507293
Chain of Custody (COC)  1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 2. Does the number of samples per sampling site location match the COC 3. Were samples deeped off by client or carrier? 4. Was the COC complete, i.e., signatures, dataser/stimes, requested analyses? 5. Were all samples acceived within a hobit situate to conducted in the field, i.e., 15 minute hobit time, are not housed in this dissussion.  Sample Turn Around Time (TAT) 6. Did the COC inclicate standard TAT; or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received in god condition? 8. Were call some custody/security seals present? 9. Was the sample received on its? 9. Was the sample served on its? 9. Were untoutly/security seals present? 9. Note Thermal preservations is not required, if samples are received within 15 minutes of sampling 13. Sec COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.  Sample Constainer 14. Are aquatous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pas sized or less)? 17. Was at rip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers? 19. Is the appropriate volume/weight or number of sample containers? 20. Were field ample labeles filled out with the minimum information:  Sample COC or field labels indicate the samples were preserved? No 22. Are samples to required and or required for few solved metals? No  Samples COC or field labels indicate the samples were preserved? No 23. Boes the COC or field labels indicate the sample work of samples of sample work or required and or required for given the field of sample and the order of samples work or required to give the field of sample and the order of samples work or required to give the field of sample and the order or required and or required for given the field of sample	Phone:	(505) 860-6215	Date Logged In:	07/24/25 14	:22	Logged In By:	Caitlin Mars
1. Does the sample ID match the COC? 2. Does the number of samplies per sampling site location match the COC 3. Were samples dropped of the yelicator carrier? 4. Was the COC complete, i.e., signatures, dates/imes, requested analyses? 5. Were all samples received within blothing times? 5. Were all samples received within blothing times? 6. Dol the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 8. Lyes, was cooler received? 9. Was the sample (s) received intact, i.e., not broken? 9. Was the sample coler received? 10. Were caustody/security seals intact? 11. Lyes, were caustody/security seals intact? 12. Was the sample received on ice? 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.  Sample Collector and the Comments of samples are received within 13 minutes of samples present? 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOC analyses? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the papropriate volume/weight or number of sample containers of Received in the orrect containers? 19. Is the papropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information:  Sample ID received in diction required and/or requested for dissolved metals? 21. Lyes the COC or field labels indicate the samples were preserved? 22. Are samples local back or manner? 23. Are samples local back or manner? 24. Is lab filtration required and/or requested for dissolved metals? 25. No. Subcontract Laboratory. 26. Was a subcontract laboratory specified by the client and if so who? 27. If yes, does the COC apecify which phase(s) is to be analyzed? 28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract laboratory specified by the client and if so who? 29. Was a subcontract laborat	Email:	lmnop.env@gmail.com	Due Date:	07/31/25 17	':00 (5 day TAT)		
1. Does the sample ID match the COC? 2. Does the number of samplies per sampling site location match the COC 3. Were samples dropped of the yelicator carrier? 4. Was the COC complete, i.e., signatures, dates/imes, requested analyses? 5. Were all samples received within blothing times? 5. Were all samples received within blothing times? 6. Dol the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 8. Lyes, was cooler received? 9. Was the sample (s) received intact, i.e., not broken? 9. Was the sample coler received? 10. Were caustody/security seals intact? 11. Lyes, were caustody/security seals intact? 12. Was the sample received on ice? 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.  Sample Collector and the Comments of samples are received within 13 minutes of samples present? 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOC analyses? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the papropriate volume/weight or number of sample containers of Received in the orrect containers? 19. Is the papropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information:  Sample ID received in diction required and/or requested for dissolved metals? 21. Lyes the COC or field labels indicate the samples were preserved? 22. Are samples local back or manner? 23. Are samples local back or manner? 24. Is lab filtration required and/or requested for dissolved metals? 25. No. Subcontract Laboratory. 26. Was a subcontract laboratory specified by the client and if so who? 27. If yes, does the COC apecify which phase(s) is to be analyzed? 28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract laboratory specified by the client and if so who? 29. Was a subcontract laborat							
2. Does the number of samples aper sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 6. Note Analysis, such as plf which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.  Sample Trunt Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Wes the sample's precived in funct, i.e., not broken? 9. Was the sample's received induct, i.e., not broken? 10. Were custedly-security seals intact? 11. If yes, were custodly-security seals intact? 12. Was the sample received on ice? 13. Sea COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. 15. Initiates of sampling 13. Sea COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments. 15. Are NOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Is the appropriate volume/weight or number of sample containers collected? 2 Yes 2 Date-Time Collected? 2 Collectors name? 2 No 2 Were field sample labels filled out with the minimum information: 2 Sample Preservation 2 Loos the COC or field labels indicate the samples were preserved? 3 No 3 No 4 No 4 No 4 Is label filled part with the minimum information: 3 Sample Preservation 2 Loos the COC or field labels indicate the samples were preserved? 3 No 4 No 4 No 4 Is label filled part with the number of analyzed? 4 No	Chain of	Custody (COC)					
3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, distavitimes, requested analyses? Note: Analysis, such as pH which should be conducted in the field, i.e., 15 mains bold time, are not included in this discussion.  Sample Tren Around Time (TAT)  6. Did the COC indicates standard TAT, or Expedited TAT?  7. Was a sample cooler received?  8. Was sample cooler received in good condition?  9. Was the sample(s) received intact, i.e., not broken?  10. Were custody/security seals intact?  11. If yes, were custody/security seals intact?  12. Was he sample received on ice?  Note Thermal preservation is not required, if samples are received within 15 minutes of sampling  13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.  Sample Container  14. Are aqueous VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pen sized or lessy)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the properties volume-weight or number of sample containers collected?  20. Were field sample labels filled out with the minimum information:  Sample Drawerstration  21. Does the COC or field labels indicate the samples were preserved?  22. Are samples (overetry preserved?  23. Less and the COC or field labels indicate the samples were preserved?  24. Is lab filtration required and/or requested for dissolved metals?  No  Multiphase Sample have more than one phase, i.e., multiphase?  25. How so the COC or field labels indicate the samples were preserved?  26. Less the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are samples required to get sent to a subcontract laboratory?  29. Was a subcontract Laboratory specified by the client and if so who?  No	1. Does tl	he sample ID match the COC?		Yes			
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			•		Subcontract Lab: NA		

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 500808

#### **CONDITIONS**

Operator:	OGRID:
T-N-T ENVIRONMENTAL INC	22099
PO Box 2530	Action Number:
Farmington, NM 87499	500808
	Action Type:
	[C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

#### CONDITIONS

Create By		Condition Date
lbarr	Accepted for record.	11/7/2025