



# TOWN of CLEVELAND WASTEWATER ANNUAL REPORT 2025

NPDES PERMIT - NC0049867

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## **I. PERMITTEE/OWNER INFORMATION**

### OWNER

TOWN OF CLEVELAND, NORTH CAROLINA

302 East Main Street

Cleveland, NC 27013

### CONTACT

PATRICK PHIFER, MAYOR

704-278-4489

[MAYOR@TOWNOFCLEVELANDNC.COM](mailto:MAYOR@TOWNOFCLEVELANDNC.COM)

### ORC

DAWSON SHEESLEY

704-883-4085

[DSHEESLEY@TOWNOFCLEVELANDNC.GOV](mailto:DSHEESLEY@TOWNOFCLEVELANDNC.GOV)

Permits:

NPDES - NC0049867

Land Application of Class B Residuals - WQ0011431

Collection System Permit – WQCS00231

The treatment system is an existing 0.27MGD wastewater Treatment facility with the following components:

- Rotary bar screen
- Manual bar screen
- Flow splitter box
- Two oxidation ditches
- Two final clarifiers
- Disinfection basin
- Ultrasonic flow measurement station
- Aerobic digester with mechanical aerator

This facility is authorized to discharge into receiving waters designated as Third Creek in the Yadkin-Pee Dee River Basin in accordance with effluent limitations, monitoring requirements, and other conditions as set forth according to NPDES permit.

The Town maintains a wastewater collection system consisting of approximately 6 miles of gravity sewer, approximately 1 mile of force main, 4 duplex pump stations and all associated piping, valves and appurtenances required to make a complete and operational wastewater collection system.

## II. Compliance Performance:

The North Carolina Department of Environment and Natural Resources (NCDENR) regulates The Town of Cleveland’s effluent discharge under the National Pollutant Discharge Elimination System (NPDES) and issued the Town of Cleveland a NPDES Permit with water quality limits and sample monitoring requirements as listed below.

Parameter	Measurement Frequency	Average Results	Monthly Permit Limit
Flow	Continuous	0.116 MGD	0.27 MGD
Biochemical Oxygen Demand (BOD) April - October	WEEKLY	7.46 mg/L	15.0 mg/L
Biochemical Oxygen Demand (BOD) Nov. — March	WEEKLY	4.27 mg/L	30.0 mg/L
Total Suspended Solids TSS	WEEKLY	6.81 mg/L	30.0 mg/L
Ammonia as Nitrogen (NH <sub>3</sub> asN) April — October	WEEKLY	0.07 mg/L	6.0 mg/L
Ammonia as Nitrogen (NH <sub>3</sub> asN) Nov. — March	WEEKLY	.50 mg/L	12.0 mg/L
Dissolved Oxygen	WEEKLY	6.67 mg/L	Not less than 5.0 m IL

Fecal Coliform	WEEKLY	10* CFU/ 100mL	200 CFU/100
Total Residual Chlorine	2/Week	0.00 ug/L	28 ug/L
Temperature	Daily	17.85°c	No limit
Oil and Grease	WEEKLY	.09 mg/L	No limit
Total Nitrogen	MONTHLY	20.41 mg/L	No limit
Total Phosphorus	MONTHLY	3.58 mg/L	No limit
pH	WEEKLY	7.5/6.0**	>6, <9

\* Fecal Coliform calculated using geometric mean

\*\* pH Daily Max

**2025 ANNUAL WASTEWATER COMPLIANCE by MONTH**

MONTH	PERMIT LIMIT VIOLATIONS	REPORTING VIOLATIONS
JANUARY	COMPLIANT	COMPLIANT
FEBRUARY	COMPLIANT	COMPLIANT
MARCH	COMPLIANT	COMPLIANT
APRIL	COMPLIANT	COMPLIANT
MAY	NON-COMPLIANT*	COMPLIANT

JUNE	COMPLIANT	COMPLIANT
JULY	COMPLIANT	COMPLIANT
AUGUST	NON-COMPLIANT*	COMPLIANT
SEPTEMBER	COMPLIANT	COMPLIANT
OCTOBER	COMPLIANT	COMPLIANT
NOVEMBER	COMPLIANT	COMPLIANT
DECEMBER	COMPLIANT	COMPLIANT

**\*Non-compliant - Exceeded weekly effluent BOD limit of 15 mg/l on 5/14/25 = 22.8 mg/l and 5/22/25 = 34.2 mg/l, and exceeded BOD monthly limit (22.5 mg/l) for May 2025 = 18.8 mg/l. Also, the effluent BOD result for 8/6/2025 was 22.8 mg/l. This exceeded the permitted weekly limit of 15 mg/l.**

**The BOD bench sheets from PACE ANALYTICAL were inspected showing a < 2 mg/l DO depletion on all sample volumes with the highest volume <150 ml. This creates an estimated result based on the highest volume set with a 300 ml maximum. The estimated value was greater than the permitted limit only because of the low sample volumes set by the laboratory. We requested PACE to set at least a 300 ml sample to attain a higher depletion and a more representative estimate. PACE agreed to make these changes on 8/15/25 with no further issues.**

## **2025 ANNUAL COLLECTION SYSTEM COMPLIANCE**

There were no spills, overflows or bypasses for January – December 2025 throughout the wastewater collection system.

### **III. Report Accessibility.**

Posted on town web site - <https://townofclevelandnc.gov/>

### **IV. Certification:**

I have personally examined and am familiar with the information submitted in this document. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

Signed this 28<sup>th</sup> day of February, 2026,

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Patrick Phifer, Mayor