



TOWN OF WHITE LAKE
WASTEWATER TREATMENT FACILITY

2024
ANNUAL WASTEWATER
PERFORMANCE REPORT

PREPARED FEBRUARY 2025

Town of White Lake
2024 Annual Wastewater Performance Report
Wastewater Treatment Facility/Collection System

I. General Information

Facility/System Name: Town of White Lake Wastewater Treatment Plant

Responsible Entity: Town of White Lake

Contact Person: Kevin Taylor, Public Works Director
1879 White Lake Dr.
PMB 7250
White Lake, NC 28337
910-862-4800

The Town of White Lake provides wastewater services at an affordable cost while managing our program in a financially sustainable manner. We never lose sight of the health and environmental cost of failing to ensure that the Town's wastewater options have sufficient financial resources to protect the public.

The Town of White Lake has approximately 2500 sewer connections. Several of these connections are multiple connections for businesses, motels, and campgrounds.

Description of Wastewater Treatment Process:

The Town of White Lake, North Carolina owns and operates a .800 MGD design capacity wastewater treatment plant (WWTP). The wastewater treatment plant is comprised of sequential batch reactors and an extended aeration treatment process. The treatment units include a mechanical bar screen, sequencing batch reactors and extended aeration basins that are followed by secondary clarification. The treated effluent is chlorinated and dechlorinated prior to discharge into Colly Creek.

II. Compliance Performance

The North Carolina Department of Environmental and Natural Resources (NCDENR) regulates The Town of White Lake's effluent discharge under the National Pollutant Elimination System (NPDES). The NCDENR issued to the Town an NPDES permit that includes water quality limits and sampling, and monitoring requirements. The NPDES permit requires the Town to monitor more than fifteen constituents in the treated wastewater. The frequency of testing is at different intervals such as continuous, daily, weekly, monthly and quarterly. During 2024, the Town conducted numerous tests of the treated wastewater to ensure compliance with NPDES Permit limits before being discharged into Colly Creek.

The following is a summary of the testing required to satisfy the standards set forth in the NPDES Permit.

Constituent	Required Number of Tests	Number of Test Performed
Flow	Continuous	Continuous
Biochemical Oxygen Demand	24	24
Total Suspended Solids	24	24
Fecal Coliform	24	24
Chlorine Residual	104	104
pH	24	24
Effluent Temperature	52	52
Total Nitrogen	4	4
Nitrate + Nitrate Nitrogen	4	4
Total Kjeldahl Nitrogen	4	4
Total Phosphorus	4	4
Ammonia Nitrogen	12	12

We are pleased to report that our wastewater treatment system is operating at maximum efficiency and maximum cost effectiveness. All 2024 monitoring data, except one minor violation (NOV) for exceeding parameter, was in compliance with state environmental standards.

The Town of White Lake has and will continue to perform inspections and test of the sewer system as an effort to locate needed repairs and has made point repairs to help eliminate inflow problems. The Town's engineering firm has completed two phases of our sewer infrastructure rehabilitation project. Phase I was completed in 2021 and Phase II was completed in 2023. The Town will continue to apply for funding opportunities for additional rehabilitation of the sewer collection system.

**The Town of White Lake holds a public meeting on the second Tuesday of each month.
Meetings are scheduled for 7:00 pm at the Town Hall.**