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2024 Wastewater System Performance Report

City of Statesville Water Resources Department

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City operates exceptional Wastewater System



We're pleased to present to you this year's Annual Wastewater System Performance Report. This report is designed to inform you about the outstanding wastewater services we provide. The City of Statesville owns and operates the City's wastewater treatment system, which is comprised of the collection system and two wastewater treatment plants.

Our mission is to treat and dispose of wastewater and residuals generated by the users in the most cost-efficient manner possible; and because we are committed to environmental excellence, to do this without imposing an adverse impact on the environment.

During 2024, Statesville treated an average of 4.0 million gallons of wastewater per day. Wastewater is collected from homes, businesses and industries through approximately 298 miles of sewer lines within Statesville and the immediate area.

This wastewater is biologically treated at either the Fourth Creek Wastewater Treatment Plant (NPDES Permit NO. NC0031836) or the Third Creek Wastewater Treatment Plant (NPDES Permit No. NC0020591) under a Federal permit of the National Pollution Discharge Elimination System (NPDES) Program.

Treated water must meet quality limitations set out in the permit. Failure to meet these limits is a violation of the permit and sanctions may be imposed by the NC Division of Water Quality. In addition, the permit contains sampling, reporting and testing requirements.

THIRD CREEK and FOURTH CREEK

Parameter Tested	Test Frequency	Test Results
Flow (3rd Creek)	0.92 mgd	Compliant
Flow (4th Creek)	3.34 mgd	Compliant
BOD	Daily	Compliant
Total Suspended Residue	Daily	Compliant
NH3N	Daily	Compliant
Dissolved Oxygen	Daily	Compliant
Fecal Coliform	Daily	Compliant
Total Residual Chlorine	Daily	Compliant
pH	Daily	Compliant
Chronic Toxicity	Quarterly	Compliant
Mercury	Quarterly	Compliant
Bis (2ethylhexyl)phthalate (3rd Creek only)	Quarterly	Compliant

The treated water is returned to the environment via a receiving stream: Third Creek or Fourth Creek. Residuals generated during treatment are processed into an alkaline product called STA-LIME that is given to local farmers at no cost. We also land apply some residuals as a Class B product under a separate Land Application Permit.

In accordance with Federal and State laws, we routinely monitor the performance of the wastewater treatment system and the treated water that is returned to the environment and the receiving stream.

The table included with this report shows the results of our monitoring for the period January 1, 2024 to December 31, 2024.

Sanitary Sewer Overflows

On March 15, 2024, approximately 500 gallons of untreated wastewater were discharged into Gregory Creek near 706 Meacham Road. The discharge was stopped within 30 minutes, and the repair was completed in less than five hours. On April 3, 2024, about 150 gallons of untreated wastewater were observed coming from a manhole at the intersection of Bristol Road and Miller Street. This sanitary sewer overflow (SSO) was discovered by the outfall crew during routine maintenance and did not reach any surface water. It was caused by tree roots and flushable wipes and was cleared within 15 minutes. On December 24, 2024, approximately 1,500 gallons of untreated wastewater were discharged from a manhole near Greenbriar Road, with only 500 gallons reaching Fourth Creek. This incident was caused by a large grease blockage and was resolved within one hour.

Because of the different constituents found in the wastewater, sewer lines can become plugged or tree roots can damage the sewer lines and cause wastewater to overflow out of the collection system. The City of Statesville employs a staff of 22 to ensure that the collection system is maintained properly and the collection system spills are handled quickly. In case of an overflow, call 704-878-3438. After working hours, call 704-878-3406.

Statesville Wastewater Treatment

If you have questions about the City's wastewater system or this report, contact Water Resources Operations Manager Andy Smith at 704-878-3438.

If you want to learn more about Statesville's wastewater system, attend any of City Council's regularly schedule meetings, first and third Monday nights each month at 6 p.m. in the council chambers of the City Hall building, 227 S. Center St. These meetings are broadcast live on the City's Government channel, cable channel 20 and You-Tube.