

ANNUAL PERFORMANCE REPORT FOR THE JOHNSTON COUNTY WASTEWATER TREATMENT FACILITIES.

PERIOD: July 01, 2023 to June 30, 2024

I. General Information

Facility Name(s): Johnston County Wastewater Treatment Facilities
Responsible Entity: Johnston County
Contact Person(s): Chandra Farmer, P.E. or John D. Wall
Address: PO Box 2263, Smithfield, NC 27577 Telephone # : 919.989.5075
NPDES Permit #s : NC0030716, NC0084735, WQCS00060 and WQ0019632

The Central Johnston County Regional Wastewater Facilities (Permits NC0030716 and WQCS00060) collect and treat wastewater from the towns of Smithfield, Selma, Four Oaks, Wilson’s Mills, Pine Level, and Clayton. County facilities also extend to and serve the East Clayton Industrial Park, the Cleveland community, NC 42 area east of the Neuse River, and the McGee’s Crossroads area.

The County operates and maintains a system of sewer line interceptors that extend through Smithfield to Selma. Wastewater from Pine Level is pumped into this interceptor. Wastewater from Four Oaks is transferred to the treatment facility through a series of force mains and interceptors involving three (3) pumping stations or can be directly pumped to Benson. Each town is responsible for operating its own collection system. Wastewater from the others areas identified above is pumped to the County’s treatment facility or the Town of Clayton wastewater treatment facility.

The treatment plant (NPDES Permit # NC0030716) is located south of Smithfield. The plant is a tertiary facility permitted to treat and discharge 9.5 million gallons per day to the Neuse River. The plant treatment works consist of primary screening, activated sludge with biological nutrient removal, secondary clarification, denitrification filtration, and ultraviolet light disinfection. Additionally, the plant stabilizes and dewater biological sludge for disposal in the County’s lined landfill facility.

The County also treats process water (NPDES Permit # NC0084735) from the County’s Timothy G. Broome Water Treatment Plant in Wilson’s Mills. This facility consists of surge decanting tanks, solids thickener, and fine solids polishing basins with the effluent dechlorinated prior to discharge to the Neuse River. These processes are located on the water plant site.

II. Performance

NPDES Permit # NC0030716 - During the period July 01, 2023 through June 30, 2024, no violations occurred.

Permit # WQCS00060 - During the period July 01, 2023 through June 30, 2024, the following sanitary sewer overflows occurred:

Date & Location	Spill Volume	Cause
9/18/2023 680 County Home Road Smithfield, NC 27577	237,600 gallons	Hydraulic overload to manhole

10/04/2023 680 County Home Road Smithfield, NC 27577	518,000 gallons	Pipe Failure
2/19/2024 325 Norris Road Clayton NC, 27520	2,400 gallons	Pipe Failure

NPDES Permit # 0084735 - During the period July 01, 2023 through June 30, 2024, low-level chlorine exceeded weekly and monthly low-level chlorine in November 2024. Samples were analyzed, but not on low level.

Permit # WQ0019632 - During the period July 01, 2023 through June 30, 2024, on February 2, 13 and 14 an NOV asserts the County exceeded daily turbidity limits for reclaimed water. The County has appealed the NOV based on the fact that reclaimed water did not enter the system when turbidity exceeded the limit of 10 NTU.

III. Notification

This report is available at the Johnston County Department of Utilities located at 309 East Market Street in Smithfield, the County Manager’s office in the Court House Annex, and has been provided to the towns served by these facilities. This report will be available on the County’s web site at www.jcutil.com. A public notice was published in The Johnstonian News notifying users of its availability.

IV. Certification

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and that those users have been notified of its availability.

Chandra Cox Farmer

Date: August 7, 2024

Chandra Farmer, P.E.
Public Utilities Director