

**TOWN OF OLD FORT WASTEWATER
COLLECTION & TREATMENT
PERFORMANCE REPORT FOR FISCAL
YEAR JULY 1, 2023, to JUNE 30, 2024**

SYSTEM: Town of Old Fort
Wastewater Treatment Plant

RESPONSIBLE ENTITY: Town of Old Fort, Phone # 828-668-4244

OPERATORS IN CHARGE:

COLLECTION SYSTEM: Josh Cagle, Phone #828-668-4561

TREATMENT PLANT: Josh Cagle, Phone #828-668-4561

APPLICABLE PERMITS:

COLLECTION SYSTEM: WQCS00139

NPDES (WASTEWATER TREATMENT PLANT): NC0021229

BIORESIDUAL MANAGEMENT FACILITY: WQ0011260 (RESCINDED)

DESCRIPTION OF COLLECTION SYSTEM:

The sewer system collects wastewater from the Town of Old Fort and the surrounding area and transports it by gravity to the Old Fort Wastewater Treatment Plant (WWTP) located on the west bank of Curtis Creek, just east of town. There are currently no pumping stations needed in the Old Fort collection system.

DESCRIPTION OF WASTEWATER TREATMENT PLANT:

The original waste treatment plant was built in 1967, upgraded in 1987 to a capacity of 800,000 gallons per day (gpd), and upgraded again in 1996 to a capacity of 1.2 million gallons per day (mgd). In 2003-2004 the plant was again refurbished with a grant of approximately \$1.5 million from the NC Rural Center.

All wastewater is moved through the following processes:

BAR SCREEN – removes larger pieces of trash, rags, etc.

GRIT CHAMBER – removes fines sand-like material that is damaging to equipment.

INFLUENT PUMP STATION – pumps wastewater to equalization basin or aeration tank.

EQUALIZATION BASIN – contains the wastewater, allowing a constant flow through the rest of the plant.

AERATION TANK – waste is treated by concentrating, mixing, and adding air; bacteria and other micro-organisms break down the solid and liquid waste to a less harmful form.

CLARIFIERS – allows solids to settle out while clearer water passes on.

CHLORINE CONTACT CHAMBER – bleach (sodium hypochlorite) is added to disinfect the wastewater, and calcium thiosulfate is added to remove the residual chlorine.

The treated wastewater is discharged to Curtis Creek, which is a contributor to the Catawba River.

Settled solids from the clarifiers are pumped to a sludge holding tank. From there the sludge is dewatered on a belt press and put into a container then transport by Republic Services to Caldwell County Landfill Foothills Env.

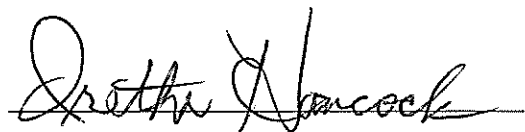
PERFORMANCE:

COLLECTION SYSTEM (SEWER) - In the 2023 – 2024 report period, there were no permit violations. The Old Fort Maintenance Department replaced approximately 375 feet of sewer line and cleaned approximately 3,500 feet of sewer pipe. The sewer department with the help of the maintenance department camera 1,500 feet of sewer line.

WASTEWATER TREATMENT PLANT: In this report period, the Old Fort Wastewater Treatment Plant had no permit violations. The Town completed the projects of replacing the automatic transfer switch. The (ATS) automatically switches power from the main power to the backup generator in case of a power outage. Completed upgrading the return activated sludge (RAS). The upgrade consists of new check valves, stainless steel pipe, new rail systems, and new pumps. The town upgraded the automatic bar screen with new variable speed controls. This better controls the speed of the belt. The town upgraded the surface aerators with new contactors in the control panels.

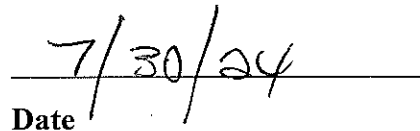
CERTIFICATION:

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.

A handwritten signature in black ink, appearing to read "Iretha Hancock", written over a horizontal line.

Iretha Hancock

Mayor Protem, Town of Old Fort

A handwritten date "7/30/24" in black ink, written over a horizontal line.

Date

NOTIFICATION:

The Town of Old Fort placed a Public Notice on the Town of Old Fort's web site (www.townofoldfort.org/sewer). Any customer desiring to obtain a copy of the performance report may do so by requesting one at Old Fort Town Hall.