

### 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 wastewater users and customers of Stanly County Utilities and the Greater Badin Water and Sewer District system and those users have been notified of its availability.

Duane Wingo

Duane Wingo, Director  
Stanly County Utilities

February 2, 2023

## Beware of the **Grease Goblin**

### DID YOU KNOW...

**Most sanitary sewer backups occur between your home and the sewer main?**

**You can help prevent a costly and unsanitary overflow by following a few simple steps.**



**Do**

**Scrape excess grease in a container and dispose of it in the garbage.**



**Don't**

**Pour grease, fats and oils from cooking down the drain.**



**IT'S NEVER OK TO POUR  
FAT, OIL OR GREASE DOWN  
THE DRAIN!**



## Greater Badin Water and Sewer District and Stanly County Utilities 2022 Wastewater Performance Report



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<http://www.stanlycountync.gov/utilities/>

NC0074756	Greater Badin WWTP
NC0043532	West Stanly WWTP
WQCS00171	Stanly County Utilities Collections System
WQCS00019	Town of Richfield



*This institution is an equal opportunity provider and employer.*

### NOTIFICATION

This report has been mailed to all water and sewer customers of Stanly County Utilities and the Greater Badin Water and Sewer District. Additional copies are available at the Stanly County Utilities business office — 1000 North First Street, Suite 12, Albemarle, NC (704) 986-3686 or visit our web site.

This brochure is designed to inform and educate consumers about the performance and operation of the Greater Badin Water and Sewer District (GBW&SD) wastewater collections system and treatment plant and the Stanly County Utilities (SCU) wastewater collections system and West Stanly treatment plant. If you would like more information about GBW&SD or SCU, please contact the Stanly County Utilities business office.

## How the treatment process works

GBW&SD provides wastewater collection and treatment services to homes, businesses, schools and others to ensure and promote public health and sanitation in the Badin community. The system received and treated 112.2 million gallons of domestic, commercial and industrial wastewater from approximately 701 wastewater customers in the year 2022. This amounts to an average of 307,309 gallons of wastewater per day. Wastewater is collected in an 11 mile system of sewer pipes and is transferred to the Greater Badin Wastewater Treatment Plant by gravity flow and pumped from two lift stations throughout the district. The West Stanly Wastewater Treatment Plant was purchased from the Town of Oakboro in May 2014. The system received and treated more than 199 million gallons of wastewater in 2022 from the collections system within Oakboro, Locust, Stanfield and Stanly County for an average of 547,147 gallons of wastewater per day. Once wastewater arrives at the treatment plants it is monitored, tested, treated and released back into the environment in a very clean state. Both plants are operated by well-trained, state certified operators who ensure the proper functioning of the facility, maintenance, and quality of the wastewater. Stanly County purchased the sewer collection system from the Town of Richfield in 2020. SCU collections system now consists of approximately 46 miles of collection mains that includes service to the northern part of Stanly County; the County Airport region, the Town of Red Cross, the communities of Palestine, Millingport, Ridgecrest, Misenheimer and Aquadale. Wastewater collections from these areas flows into treatment plants operated by Albemarle and Norwood. Combined they reported receiving 89.1 million gallons of wastewater with an overall average of 243,963 gallons of wastewater per day in 2022.

## SYSTEM PERFORMANCE FOR 2022

### 2022 Wastewater Treatment Plant Violations

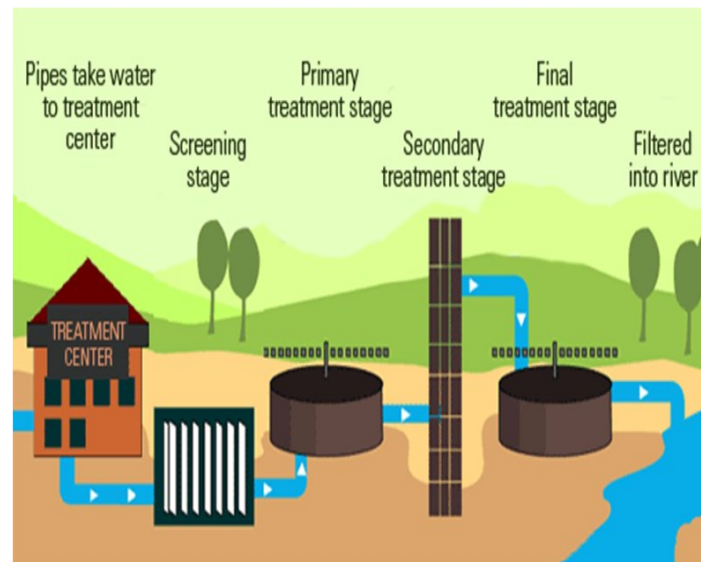
#### Greater Badin Wastewater Treatment Plant

<u>Month</u>	<u>Violation</u>	<u>Type</u>
March	Yes	Flow
May	Yes	Equipment

#### West Stanly Wastewater Treatment Plant

<u>Month</u>	<u>Violation</u>	<u>Type</u>
N/A	N/A	N/A

The rated capacity of the Badin Wastewater Treatment Plant is 550,000 gallons per day. The rated capacity of West Stanly Wastewater Treatment Plant was 755,000 gallons per day up until August 2022 and increased with upgrade to 1.2 mgd per NCDEQ SOC. A flow violation means the plant treated more wastewater than the rated capacity. This happens when heavy rains cause the system to take on rainwater. The plant can and does provide effective treatment at levels higher than the rated capacity. However, any numbers above the plant rating constitute a flow violation.



*\*This description is not a standard for all treatment plants, but the principle is similar.*

### 2022 Sewer Overflows/Spills/Bypasses

<u>Location</u>	<u>Date</u>	<u>Amount</u>
Badin WWTP	1/03/22	50,400 gallons
West Badin LS	1/03/22	24,000 gallons
McCoy	7/29/22	8,000 gallons
Deese Street LS	10/01/22	1,800 gallons

A sewer overflow or spill is indicated when untreated or partially treated wastewater is released from a pipe break or a manhole overflow. Overflows can result from pipes clogged with grease, tree roots, debris, damaged pipes or excessive inflow and infiltration (I&I) of other water into the collection pipes.

In three of our cases, rain water from heavy storms has entered the wastewater collection system to increase the flow beyond the rated capacity of the treatment plant or the collections system. The McCoy's location, experienced equipment failure.

Wastewater spills can be harmful to the environment due to the potential for exposure to bacteria and other hazards. Each spill site is cleaned and treated to minimize the risk to the public. The Airport Road sewer upgrade, completed July 2018, was designed to alleviate problems with a limited capacity sewer system.

\* \* \*

In 2020, Stanly County was approved for a \$7.2 million in loan funds from NCDEQ-SRF for the completion of the West Stanly WWTP and the McCoy's Creek pump station. The 1.2 mgd upgrade project began construction in September 2020 and project completion achieved in August 2022.

\* \* \*

Stanly County Utilities received \$1.2 million grant funding for the rehabilitation of the Richfield Sewer System acquired in 2020. The engineering and environmental study are currently in process.