

**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.

Donna Davis, Director  
Stanly County Utilities

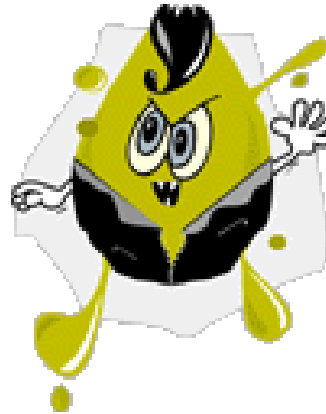
February 12, 2018

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  
2017 Wastewater Performance Report**



Stanly County Utilities  
1000 North First Street, Suite 12  
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(704) 986-3686

Donna Davis, Director

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

NC0074756 Greater Badin WWTP  
NC0043532 West Stanly WWTP  
WQCS00171 Stanly County Utilities Collections System



*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 more than 105 million gallons of domestic, commercial and industrial wastewater from approximately 708 wastewater customers in the year 2017. This amounts to an average of 289,452 gallons of wastewater per day. Wastewater is collected in an 11 mile system of sewer pipes and 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 156 million gallons of wastewater in 2017 from the collections system within Oakboro, Locust, Stanfield and Stanly County for an average of 429,934 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. The overall SCU collections system consists of approximately 32 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 from these areas is collected and sent to treatment plants in Albemarle and Norwood. Combined they recorded approximately 90 million gallons of wastewater with an overall average of 249,040 gallons of wastewater per day in 2017.

## SYSTEM PERFORMANCE FOR 2017

### 2017 Wastewater Treatment Plant Violations

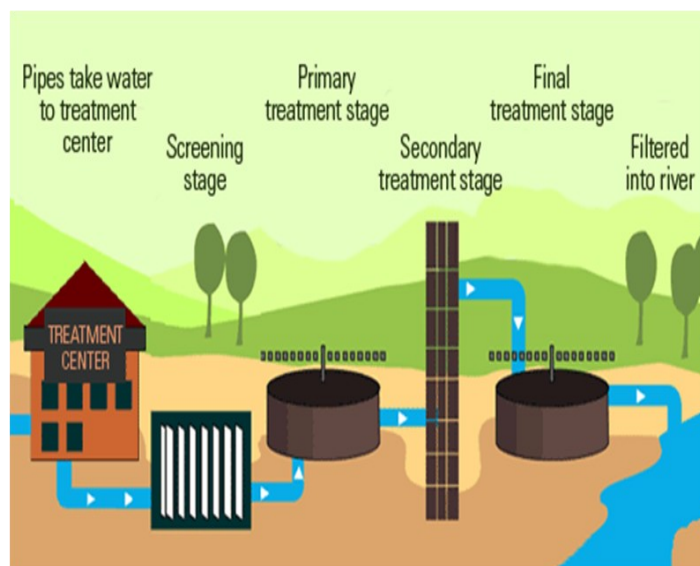
#### Greater Badin Wastewater Treatment Plant

<u>Month</u>	<u>Violation</u>	<u>Type</u>
January	Yes	Flow
March	Yes	Flow

#### West Stanly Wastewater Treatment Plant

<u>Month</u>	<u>Violation</u>	<u>Type</u>
January	Yes	BOD/Flow
April	Yes	Flow
May	Yes	Flow
November	Yes	Fecal
December	Yes	BOD/Fecal

The rated capacity of the Badin treatment plant is 550,000 gallons per day and the rated capacity of the West Stanly treatment plant is 900,000 gallons per day. 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.*

### 2017 Sewer Overflows/Spills/Bypasses

<u>Location</u>	<u>Date</u>	<u>Amount</u>
Airport #1 PS	1/03/17	12,000 gallons
Badin WWTP	1/03/17	10,000 gallons
Airport #1 PS	1/23/17	20,000 gallons
Badin WWTP	6/05/17	12,000 gallons
McCoy Inf PS	10/19/17	2,000 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 of other water into the collection pipes.

In all 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.

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 Corridor Sanitary Sewer Improvements Project began construction August 2017 and is scheduled to be complete early 2018. It's designed to alleviate problems with a limited capacity sewer system. Stanly County secured grant and loan funds for this project.

In 2015, Stanly County was awarded 2.6 million dollars in loan funds to rehabilitate the West Stanly WWTP and the McCoy's Creek pump station. The project is being designed and will begin construction in fiscal year 2018/19.

*Esta informacion esta disponible en espanol o en cualquier otro idioma bajo peticion. Por favor, pongase en contacto con Stanly County Utilites, al 704-986-3686 o en 1000 N First Street, Suite 12, Albemarle, NC 28001, de alojamiento para esta comunicado.*