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 L Davis

Donna Davis, Director
Stanly County Utilities

February 16, 2016

NOTIFICATION

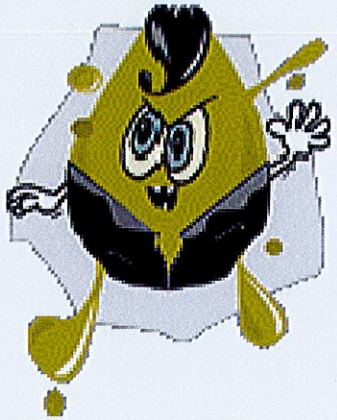
This report has been mailed to all water and sewer customers of Stanly County Utilities and the Greater Badin Water and Sewer District. Additional copies are available at the Stanly County Utilities business office – 1000 North First Street, Suite 12, Albemarle, NC (704) 986-3686 or visit our web site.

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.**

Greater Badin Water and Sewer District and Stanly County Utilities 2015 Wastewater Performance Report

Stanly County Utilities
1000 North First Street, Suite 12
Albemarle, NC 28001
(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 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 172.6 million gallons of domestic, commercial and industrial wastewater from approximately 625 wastewater customers in the year 2015. This amounts to an average of 472,956 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 166 million gallons of wastewater in 2015 from the collections system from Oakboro, Locust, Stanfield and Stanly County for an average of 455,345 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 28 miles of collection mains and includes service to the northern part of Stanly County; the County Airport region, the Town of Red Cross, the communities of Palestine, Millingport, Ridgecrest, 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 overall and with an average of 246,679 gallons of wastewater per day in 2015.

SYSTEM PERFORMANCE FOR 2015

2015 Wastewater Treatment Plant Violations

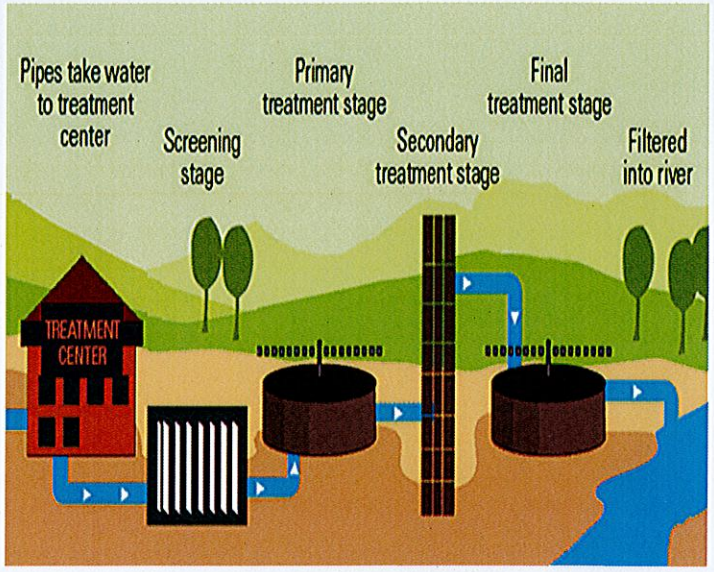
Greater Badin Wastewater Treatment Plant

Month	Violation	Type
March	Yes	Flow
November	Yes	Flow
December	Yes	Flow

West Stanly Wastewater Treatment Plant

Month	Violation	Type
June	Yes	Flow
October	Yes	Flow
November	Yes	Flow
December	Yes	Flow

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.



2015 Sewer Overflows/Spills/Bypasses

Location	Date	Amount
McCoy Inf PS	01/14/15	24,000 gallons
WS WWTP	02/17/15	12,000 gallons
WS WWTP	04/16/15	120,000 gallons
Gtr Badin WWTP	10/03/15	28,000 gallons
Gtr Badin WWTP	11/02/15	50,000 gallons
McCoy Inf PS	11/02/15	6,000 gallons
Airport #1 PS	11/02/15	10,000 gallons
W Badin PS	11/03/15	17,000 gallons
Gtr Badin WWTP	11/09/15	48,000 gallons
Airport #1 PS	11/09/15	5,000 gallons
Hwy 73 #3 PS	11/09/15	6,000 gallons
W Badin PS	11/09/15	6,000 gallons
W Badin PS	11/19/15	5,000 gallons
Gtr Badin WWTP	11/19/15	37,000 gallons
McCoy PS	11/19/15	24,000 gallons
Gtr Badin WWTP	12/22/15	18,000 gallons
Gtr Badin WWTP	12/30/15	2,000 gallons
Gtr Badin WWTP	12/31/15	40,000 gallons

A sewer overflow or spill is indicated when untreated or partially treated wastewater is released from a pipe break or manhole overflow. Overflows can result from pipes clogged with grease, tree roots, and 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.

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 in the design stage and will begin construction in fiscal year 2017.