

## **2017 ANNUAL REPORT**

### **TOWN OF WINTERVILLE COLLECTION SYSTEM**

#### **PERMIT: WQCS00117**

The Clean Water Act of 1999 requires wastewater collection systems to provide an annual report to their customers. This report summarizes the performance of the Town of Winterville's wastewater collection system for the 12-month period from January 1, 2017 to December 31, 2017.

The Town of Winterville operates a wastewater collection system under permit WQCS00117, issued by the Division of Water Quality, NC Department of Environment and Natural Resources. The permit was issued on March 4, 2013 and is valid from June 1, 2013 until March 31, 2021. This system consists of approximately 48.60 miles of gravity sewer, approximately 1.4 miles of pressure sewer, approximately 11.9 miles of force main, 23 duplex pump stations, 62 simplex pump stations that discharge to a pressure sewer and serve a single building, and all the associated piping, valves, and appurtenances necessary to operate a wastewater collection system for the Town of Winterville.

Wastewater collected by this system is pumped to the Contentnea Metropolitan Sewerage District (CMSD) wastewater treatment plant in Grifton via a fourteen inch diameter force main, where it is treated prior to discharge into Contentnea Creek. CMSD operates under permit number NC0032077.

During the year 2017, the Town of Winterville system collected 252,360,000 gallons of wastewater, an average of 691,397 gallons per day. The Town had one Sanitary Sewer Overflow (SSO) in 2017. The overflow occurred on January 23, 2017 when an 8" force main from the Church Street lift station failed. An estimated volume of 752 gallons of untreated wastewater was released from the force main. Town staff immediately repaired the force main and replaced the majority of the force main with a new pipe in the summer of 2017 in order to minimize future failures to the maximum extent practical.

Our 23 pump stations are visited and inspected three times a week to ensure that they are operating correctly. Each of the 23 pumping stations is equipped with two pumps that alternate in operation and provide redundancy for emergencies. The Town also has backup generators and by-pass pumps which can quickly be mobilized to the lift stations in case of a power failure.

Over the last 12 months, many upgrades have been made to our existing collection system and lift stations including replacing pumps and impellers, replacing worn electrical components such as starters, and making point repairs to eliminate infiltration. The Town has also committed to replacing the entire control panel at the Church Street lift. These upgrades should help improve the efficiency and reliability of our collection system and lift stations. The Town also started an Asset & Inventory Assessment. This assessment will help locate deficiencies and problems with our collection system, mainly including inflow and infiltration problems. By eliminating these

issues, the Town will be better prepared to handle large flows during heavy rain events and prevent future SSO's.

To help reduce the grease build up in the town's collection system each lift station is cleaned a minimum of once a quarter. In addition, a minimum of 10 percent of the gravity sewer mains are cleaned per year.

Hard copies of this report are available at Winterville Town Hall located at 2571 Railroad Street, as well as online at [www.wintervillenc.com](http://www.wintervillenc.com). Should you have any questions, please contact the Public Works Department, by mail at P.O.Box 1459, Winterville, N.C. 28590; by telephone at 252.215.2427; or visit us at [www.wintervillenc.com](http://www.wintervillenc.com).

This report is accurate and complete to the best of my knowledge.

Travis Welborn, PE  
Public Works Director  
Town of Winterville