

2022
Sewer Collection System Annual Performance Report
Town of Nashville, North Carolina

General Information

- Facility/System Name: Town of Nashville, Sewer Collection System
- Responsible Entity: Town of Nashville, Randy Lansing, Town Manager
- Operator in Responsible Charge (ORC): Lee Brown
- Backup Operator-in-Responsible Charge: Taylor Joyner
- Applicable Permits: Sewer Collection System: WQCS00329

Collection and Treatment Process

- Mile of Sewer Pipe: 40.3 miles of gravity line and 4.8 miles of force main
- Sewer line Materials: VCP, PVC, RCP, DIP, and steel
- Size of Sewer lines: 6 to 18 inches
- Age of system: new to more than 100 years old
- Number of pump stations: 12
- How Wastewater is collected:
 - Gravity carries wastewater from homes and businesses to our lift stations which are in low-lying areas. Our lift stations are pumping between a few thousand gallons per day to more than 350,000 gallons per day. Once the lift station fills with wastewater the pumps will turn on and transport the wastewater through force mains to our cross-country outfall that carries the Town's wastewater to the Tar River Regional Wastewater Treatment Plant. The City of Rocky Mount owns and operates this facility and has a daily capacity of treating 21 million Gallons per Day (21MGD). A copy of The City of Rocky Mount's Annual Performance report is available on their website.

Operations & Maintenance

The department of Public Works is responsible for operating and maintaining the Towns Collection System in accordance with all rules and regulations as set forth by the NCDEQ.

- Division of Water & Sewer Maintenance: 5 employees
- Response: within 1 hour during business hours, within 2 hours after-hours
- Availability: Staff are available 24 hours/day, 365 days/year to respond
- Duties: install new and repair old lines, mow and maintain outfalls, clean sewer mains and laterals, respond to all sewer-related complaint calls, inspect, and maintain lift stations
- 12 lift stations are monitored 24 hours/day by level and power parameters with a dialer alarm system to notify staff of any failures

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Improvements

The Town was awarded an Asset and Inventory Grant from NCDEQ Division of Water Infrastructure in the amount of \$150,000 and has partnered with a local engineering firm to take a physical inventory and assess the condition of our entire collection system. This information is being utilized to create a system map using GIS and offer insight into the areas of our system that are most in need of improvement. As part of this assessment, we hired a contractor to re-line over 40 aging manholes with the intent to reduce inflow and infiltration.

In 2022 The Division of Water & Sewer Maintenance Completed the following:

- Repairs to sewer lateral/cleanouts: 14
- Repairs to sewer mains: 7
- Lift Station Pump Repair/Replace: 3
- Repairs to manhole castings: 2
- Repair to Force main: 1
- Installed new sewer taps: 16
- Feet of Sewer Main cleaned: 26,078
- Response to Sewer Backups: 93

Sanitary Sewer Overflows

The Town's Department of Public Works strives for a goal of zero Sanitary Sewer Overflows (SSO's). SSO's may result from, but are not limited to, inflow and infiltration due to high water levels, restricted lines from rags, roots, grease accumulation, broken pipes, construction activities, and power failures at sewer lift stations. The Town is reducing the potential for SSO's by maintaining back-up generators at lift stations, cleaning collection systems lines, and working to reduce inflow and infiltration by re-lining manholes. Users/customers of the Town's Collection System can help prevent SSO's by properly disposing of spent household products such as grease/oil, food scraps, and sanitary products into solid waste containers, rather than down the drain.

There were two incidents of sanitary sewer overflows within this reporting period as follows:

- February 11, 2022:
 - Caused by obstruction in manhole
 - 100 Woodfield Dr
 - 600 gallons
- December 18, 2022:
 - Caused by major grease accumulation
 - 610 Western Ave
 - 2,250 gallons