

# City of Concord Water Resources Department Wastewater Collection System

Annual Report Fiscal Year July 2022 - June 2023

### Why do we publish this report?

N.C. General Statute Chapter 143, Article 21, Part 1, 143-215.1C requires municipalities that operate wastewater collection and treatment systems to publish an annual report summarizing the performances of their collection system and treatment works and the extent to which the system has violated their permit, federal or state laws, regulations, or rules related to the protection of water quality.

## General Information

System Name:	City of Concord Wastewater Collection System
Responsible Entity:	City of Concord
Persons in Charge:	Jeff Corley, Director of Water Resources Chad Grimm, Wastewater Utility Services Superintendent & System Operator
Applicable Permits:	WQCS00326 Tributary to NC0036269 and NC0081621

#### **The Treatment Process**

The City of Concord discharges its wastewater to both of the Water and Sewer Authority of Cabarrus County's (WSACC) Treatment Plants: Rocky River Regional and Muddy Creek.

#### The Wastewater Collection System

The City of Concord's Wastewater Collection System came into existence in the early 1900's and continued to be upgraded and extended to become the system we operate today. The system currently consists of over 592 miles of sewer pipelines, approximately 15,355 manholes, and 23 wastewater pump stations. The City of Concord's Wastewater Division performs the operation and maintenance of the City's collection system, which serves approximately 40,747 customers.

Our crews provide maintenance service to the system and its customers with professionalism and efficiency:

• Two rapid-response crews respond to all calls related to potential blockages and overflows in the system.

- Two jet-vac truck crews perform maintenance on the system by removing obstructions that may be present in the system, thus limiting the number of possible back-ups and overflows. An inflow-infiltration crew locates defects and obstructions in the pipelines using a camera that videotapes the inside of the sewer lines.
- The City also has a crew that is dedicated to the operation and maintenance of the City's wastewater pump stations.
- One service line installation and repair crew installs new service lateral connections to the City's sewer mains and repairs sewer mains as well as manholes.
- One right-of-way crew that is dedicated to mowing all right-of-ways.
- One crew of heavy construction has been dedicated to heavy right-of-way clearing or to fill in as a repair crew to do new installs and make repairs as well. All right-of-way maintenance crews collect data on the location of the various components of the City's system that provides maintenance of the wastewater collection system rights-of-way's that performs semi- annual inspections of the system.

During this fiscal year, the City of Concord was requested to investigate approximately 122 reports of possible sewer-related backups. These calls were related to both municipal and private lines. The City of Concord had 0 incidences that resulted in the spill or overflow of more than 1,000 gallons of wastewater to surface waters of the State.

The City has a System Protection Superintendent who is responsible for the implementation of the Fats, Oil, and Grease Program (FOG), along with sewer right-of-way notification to ensure easement accessibility. Notification letters are mailed to all new property owners that have easements on their properties when property ownership is transferred. The System Protection Superintendent reviews plans for new construction and up-fit plans dealing with food preparation and grease disposal. The System Protection group conducts annual FOG inspections to avoid grease build up. When the Wastewater crews find overflows, they work with the System Protection Superintendent to hang educational doorhangers.

The City of Concord is continually performing preventative maintenance activities and undergoing rehabilitation projects to prevent sanitary sewer overflows. The following activities have been completed during the past fiscal year.

Jet-Vac Line Cleaning	254,496 linear feet
Dye Testing	9
Sewer Service Inspections	240
Sewer Line Replacements	0 linear feet
Smoke Testing	18,000 linear feet
T.V. Inspections	47,712 linear feet
Pipe Lining	27,826 linear feet
Manholes Rehabilitated	100
Manholes Inspected	6,716
High Priority Lines Inspected	86.9 miles
Miles of right-of-way mowed	123 miles

The City of Concord also operates an in-house flow monitoring program. The desired outcomes of this program are to ensure adequate system capacity, prevent sanitary sewer overflows, identify segments of the system impacted by inflow and infiltration, and prioritize field investigations and repairs that could create the greatest reduction in the conveyance and treatment of unnecessary flow.



🛇 Put food scraps down drains

REPORT ILLEGAL DUMPING TO: City of Concord Customer Service (704) 920-5555

#### Published by:

The City of Concord Water Resources Department Crystal Scheip Water Resources Engineering Manager

Copies of this report are available for review at the following locations:

Alfred M. Brown Operations Center 635 Alfred Brown Jr. Ct. SW, Concord, North Carolina

> City Hall 35 Cabarrus Ave. W Concord, North Carolina

This report may also be viewed on the City's website at <u>www.concordnc.gov</u>.

#### 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 users or customers of the named system and that those users have been notified of its availability.

Jeff Corley, Director of Water Resources

3

Date: 7/19/23

City of Concord Water Resources Department Wastewater Collection System Performance Annual Report 2022-2023