

# City of Lowell

## "2023"

### Performance Annual Report

**City of Lowell (Wastewater Collection System)**

**Responsible Entity: City of Lowell**

**Contact Person: Thomas Shrewsbury**

**Contact Phone# 704-824-1072**

**Permit # WQCS00164**

**Note: This report represents wastewater collection system performance and violations. Wastewater treatment annual reports are available to users and customers through a separate notification.**

#### **Collection System Description:**

The city of Lowell collection system consists of approx. 28miles of total gravity flow collection line ranging from 8" to 15" inches throughout the system. The breakdown reads as follows 22.8 miles of 8"line, 0.341 miles of 10", 1.387 miles of 12"line and 3.650 miles of 15" sanitary sewer/collection line.

The collection system also utilizes eight sanitary sewer lift stations, situated at low points throughout the community. Sanitary sewers leaving these lift station sites are pumped through sanitary sewer force mains, ranging from 4" to 6" in diameter. The total distance of force main throughout the system runs approx., 1.528 miles. The City of Lowell collection systems, as well as 657 manholes are maintained by City of Lowell Public Works Employees.

#### **System Performance for "2023"**

In 2022 the City of Lowell received grant funding for sewer main and manhole rehab. Throughout 2023 there were several thousand feet of main sewer line inspected and tested. New linings, manhole rehab and point source repairs were made on several streets in the western sections of our community. Work continues in this basin as Lowell seeks approval to replace the Lynn Steet lift station with remaining grant funds. This project would replace the oldest lift station remaining in the system.

The City of Lowell has received planning grant funds to prepare for the bypass and decommissioning of the Wastewater Treatment Plant. Lowell continues to evaluate all options in anticipation of future growth expected to come to Lowell. City staff continues to participate in any/all discussions with neighboring communities and developers to determine the most efficient way to preserve citizen services and prepare for future development.

Through a cooperative effort between staff, council, and management, we are pleased to report that violations and system malfunctions were addressed proactively in an effort to protect our environment.

	<u>Date</u>	<u>Location</u>	<u>Environmental Impact</u>	<u>Cause</u>
January:	No Violations			
February:	No Violations			
March:	No Violations			
April:	4/26/23	Lynn Street Lift	600 Gallons	Torrential rain event
May:	No Violations			
June:	6/24/2023	River View Drive	5,620 Gallons	Broken Pipe
July:	No Violations			
August:	No Violations			
September:	No Violations			
October:	No Violations			
November:	No Violations			
December:	No Violations			

The collection system annual report, in its entirety can be found for customer or citizen review at the following locations:

- City of Lowell Web Site
- City Hall bulletin board
- City of Lowell Library
- City of Lowell Public Works Dept.

Public notification regarding availability of this report will appear in the City of Lowell March 2023 utility bills and the next quarterly citizen newsletter.

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 at the named system and that those users have been notified of its availability.

Thomas E. Shrewsbury

January 30, 2024

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City of Lowell  
Public Works Director  
704-824-1072

**2023 PERFORMANCE ANNUAL REPORT  
WASTEWATER TREATMENT AND COLLECTION SYSTEM**

**GENERAL INFORMATION**

Facility/System Name: City of Lowell, 101 West First Street, Lowell, NC 28098  
Responsible Entity: City of Lowell  
Person in Charge/Contact: Daniel Dougherty, Wastewater Plant ORC 704/477-5514  
Ron Haynes, Wastewater Backup ORC 828/962-7733  
Applicable Permits: NPDES Permit No. NC0025861  
Collections System Permit No. WQCS00164  
Collection System: Gravity with (9) Sewer Lift Stations  
Treatment Process: Activated sludge, Contact Stabilization Process

**PERFORMANCE:**

The laboratory reports showed compliance in all effluent parameters for calendar year 2023 for NPDES permit No. NC0025861.

***Sanitary Sewer Overflows:***

There were four spills during the year. The overflows resulted from major storm events and occurred at the Main Lift. Volumes and dates of spills were as follows:

Date	Volume (gal)
1/4/23	11,890
1/25/23	5,945
4/7/23	11,890
12/26/23	29,000

***Regulatory***

A review of the plant operating records shows no NOV's during 2023 for the plant and main lift station.

***Capital Improvements completed during the year 2023***

There were no capital improvements in the year.

**NOTIFICATION:**

Notification will be given in the next billing that copies of this report are available at Town Hall.

**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 the users have been notified of its availability.

Daniel J. Dougherty  
Wastewater Treatment Plant ORC



Date: 1/25/2024

Cc: Scott Attaway, City Manager  
Thomas Shrewsbury, Public Works Director