

City of Lowell  
"2016"  
Performance Annual Report

**City of Lowell (Waste Water Collection System)**

**Responsible Entity: City of Lowell**

**Contact Person: Thomas Shrewsbury**

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

**Permit # WQCS00164**

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

**Collect System Description:**

The city of Lowell collection system consists of approx. 26miles of total gravity flow collection line ranging from 8" to 15" inches throughout the system. The breakdown reads as follows 20.8 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 631 manholes are maintained by City of Lowell Public Works Employees.

**System Performance for "2016"**

Throughout 2016 the City of Lowell employees continue to place much of their attention on I&I related problems throughout the system. Smoke testing areas of attention included the South Eastern and North Western portions of the community. Several deficiencies were detected and repaired and efforts will continue throughout 2017. City staff will continue an aggressive Right of Way maintenance push for the summer of 2017 to include visual inspections during rain events and repairs to identified problems. We anticipate this will help to reduce the number of I&I related sanitary sewer overflows within the collection system.

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:	No violations			
May:	No violations			
June:	No violations			
July:	No violations			
August:	No violations			
September:	No violations			
October:	10/17/16	White Oak & Fair St.	700 Gals	Tree Roots
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 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 April 2016 utility bills and April 2016 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  
 City of Lowell  
 Public Works Director  
 704-824-1072

February 23, 2017

**2016 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 704/481-9443  
Ron Haynes, Wastewater Backup ORC 828/962-7733  
Applicable Permits: NPDES Permit No. NC0025861  
Collections System Permit No. WQCS00164  
Collection System: Gravity with (7) Sewer Lift Stations  
Treatment Process: Activated sludge, Contact Stabilization Process

**PERFORMANCE:**

The laboratory reports showed compliance in all effluent parameters for calendar year 2016 for NPDES permit No. NC0025861.

A review of the plant operating records shows no sanitary sewer overflows or NOV's during 2016 for the plant and main lift station.

*Capital Improvements completed during the year 2016*

New effluent weir box and upgraded chart recorder/totalizer  
Installed new barscreen and influent structure  
Purchased new laboratory pH meters  
Lab certification completed and passed  
Upgraded telephone and Autodialer for plant and main lift station  
New clarifier launder, baffle, and weirs: New clarifier scrapes

**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: 2/24/2017

Cc: Kevin Krouse, City Manager  
Thomas Shrewsbury, Public Works Director