

City of Locust
Post Office Box 190
Locust, North Carolina 28097-0190
(704) 888-5260

**City of Locust
Annual Wastewater Collection Report
2016-2017**

Introduction:

This report is produced in compliance with House Bill 1160 passed by the General Assembly of the State of North Carolina requiring that all entities that own or operate a wastewater collection system make an annual report available to their customers. This report includes information regarding system operations, violations, and educational material.

This report is designed to provide an understanding and informative description of the wastewater collection system and promote a general public awareness of its operations.

General Information:

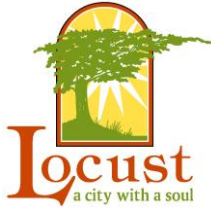
System Name: City of Locust Wastewater Collection System
Responsible Entity: City of Locust
Persons in Charge: ORC: Tim Flieger, Cert# 994828
Backup ORC: Chris McLain, Cert# 1002246
Applicable Permit: Collection System Permit #WQCS00365

Collection System Overview:

The City of Locust Wastewater Collection System has approximately 1036 sewer connections that serve residential, commercial, and industrial customers. The system is unique in design, because it has all types of available sewer service technology in service. It consists of approximately 10 miles of forcemain, 13 miles of vacuum main, 22 miles of gravity main, and 2600' of low pressure. There are 3 main pump stations and 8 lift stations that help convey the untreated sewer to the POTW, located in Oakboro. The purpose of the wastewater collection system is to collect and transport the sewage generated by the city's customers to the wastewater treatment plant which is owned and operated by Stanly County Utilities.

Performance:

The City of Locust's Public Works Department performs the operation and maintenance of the collection system. During the reporting period, the City of Locust Wastewater Collection System collected and conveyed 61,071,637 gallons of untreated wastewater. The department consists of 4 full time employees. This department performs all the station and system maintenance that arises within the wastewater system. Station maintenance includes, but not



City of Locust

Post Office Box 190
Locust, North Carolina 28097-0190
(704) 888-5260

limited to, daily station visits, landscape/lawn maintenance, housekeeping, wet well cleaning, inflow and infiltration reduction, and all mechanical maintenance/repairs. System maintenance includes, but not limited to, line cleaning, I/I reduction, service tap installation, maintenance and repairs of the low-pressure system (25 grinder pumps), repair to sewer line, customer collection/disconnection enforcement, 24/7 customer call ins, new construction inspection, and mowing/inspections of sewer right of ways/easements.

I/I Reduction continued to be a major focus this past year. Inflow and infiltration plays a large role in the efficiency of a system, therefore our focus has been to minimize this issue. Through smoke testing, CCTV, and visual inspections we've reduced unwanted stormwater in our system tremendously. In addition, through an aggressive and pro-active approach we isolated areas in our vacuum system that were failing and causing vacuum to leak out and made numerous repairs. These areas didn't cause SSO's, but they did contribute to our I/I and increase electrical consumption at our (2) vacuum stations. Manhole rehabilitation is another area that has helped in our I/I reduction. Visual inspections were the primary step to detect concerns. Minor repairs were made immediately and plans were made for the more intense rehab. This work is scheduled for the 2016-2017 fiscal year. By focusing on these issues, we conserved energy, reduced financial burden, and minimized unwanted after hour callouts.

Collection Station/System Maintenance Accomplishments:

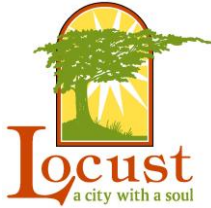
- Responded to 28 after hour station calls and 9 after hour system calls.
- Overhauled sewer pumps at CVLS#4 & WMLS#9.
- Conducted PM services on all vacuum pumps at BHVS#1 & MCVS#2.
- Hydro jetted 7460' of gravity sewer main.
- Installed 15 new service taps.
- Inspected, mowed, and maintained 78.4 miles of off road right of way.
- Conducted a Sanitary Sewer Evaluation Study (SSES) in (2) two separate sewer basins (200NSSSB and ESSSSB). During these studies, (27) twenty-seven points of failures were detected and repaired.
- Rehabilitated (9) manholes

The City of Locust continues to improve our Fats, Oils, and Grease (FOG) Program as well. Most Sanitary Sewer Overflows (SSO's) are caused by F.O.G and can be prevented through education and training. Food Service Establishments (FSE) are the biggest contributors to this program and receive most of our attention. Random site visits/inspections are conducted at all FSE's and this is how we educate and enforce our FOG ordinance/ program. During the reporting period, 35 on-site visits were recorded. While (0) Notice of Violations (NOV) were issued. Education, training, and follow through have been our key approaches to a more effective and pro-active FOG reduction program.

Violations:

The City of Locust had no reportable spills during the reporting period.

186 Ray Kennedy Dr, Po Box 190, Locust, North Carolina 28097
(T) 704-888-5260 (F) 704-888-1566 www.locustnc.com




City of Locust
Post Office Box 190
Locust, North Carolina 28097-0190
(704) 888-5260

Availability of Report:

A copy of this report is available at City Hall 186 Ray Kennedy Dr. Locust, North Carolina; and on the city's website at www.locustnc.com

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 and customers of the City of Locust.



Date: 8/16/2017

Timothy C. Flieger
Director of Public Works
City of Locust
Public Works Department