

**Wastewater System Performance Annual Report
Fiscal Year 2017-2018
Town of Clayton**

I. General Information

Responsible Entity: Town of Clayton

Wastewater Treatment Facility Name: Little Creek Water Reclamation Facility (LCWRF)

ORC: James Warren--LCWRF

Byron Poelman--Collection System

NPDES Permit: NC0025453 (LCWRF)

Collection System: WQCS00110

Laboratory Certification: 348

Description of Treatment Process and Collection System: The LCWRF is comprised of an automated barscreen, grit chamber, sampling station, flow monitoring, dual oxidation ditches with biological nutrient removal, tertiary filter, ultraviolet disinfection, standby chlorination & dechlorination, sludge thickening , aerated sludge storage and reclaim water. The wastewater collection system is comprised of 30 lift stations, approximately 124 miles of gravity sewer and approximately 36 miles of force main.

II. Performance

The collection system recorded a good performance record for the twelve-month period from July 1, 2017 to June 30, 2018. The facility met all the permit conditions during the period.

Sanitary sewer overflows that release 1,000 gallons or more and/or enter surface waters must be reported to the State of North Carolina.

The treatment facility treated 595,308,000 gallons during the period and met NPDES permit limits. With the following exceptions:

The treatment facility experienced no spill(s) during the period:

Clayton sent 31,479,235 gallons to Raleigh for treatment.

The treatment facility delivered 11,869,901 gallons of reclaimed water to Pine Hollow Golf Course.

The collection system had 5 overflows during the period that did not meet the reporting criteria. The collection system had 1 overflows during the period that did require reporting which are listed below:

Reportable Collection System Sanitary Sewer Overflows

Date	Location	Gallons	Cause
7/11/17	1200 N. O'Neil St.	2,250	FM Damage by Contractor

Corrective measures for the overflows included cleaning the line(s) involved and the immediate area(s) in accordance with State guidelines, I & I Investigation, and plans for system improvements are in place for FY 18-19. Chemical Root Control was used throughout the year on lines with roots to avoid an SSO. The system also distributed Grease Public Education materials to all residents in accordance with requirements. No environmental impacts or adverse health effects were detected.

The following improvements were made to the collection system during the twelve-month period:

1 Sewer Easement Stabilization/Repairs	\$44,969
Ellington S/D outfall access \$11,668.75	
NRLS# 2 outfall stabilization \$13,200.00	
Central St. outfall stabilization \$16,300.00	
Clayton Estate easement clearing \$3,800.00	
2 SL-RAT Sewer Line Assessment Tool purchase	\$25,310
3 Chemical Root Control	\$6,236
4 ECIA Lift Station	\$1,104,692
5 Clearing/Vegetation Control on easements	\$6,840
6 Manhole I&I rehab	\$76,055
7 sUAS Purchase for easement inspections	\$2,282
8 NRLS#2 to Clayton/Raleigh L/S Upgrade	\$288,721
9 Rollingwood L/A Abandonment	\$685,039
10 Central L/S Abandonment	\$107,477
11 2016 Street Improvement Project sewer replacement	\$16,930
12 Continue CMMS Development	\$76,013
13 Trailer Jetter addition	\$82,405
14 Regency Dr. & S. O'Neil/Blanche St Improvement Design	\$10,766
15 Vactor Truck, Debris Dump Site Improvements	\$79,702

The cost of these improvements was approximately **\$ 2,613,437**

The following improvements were made at the treatment facility during the twelve-month period.

- Complete a capacity study for future planning.
- Rehabilitated tertiary filters.

The cost of these improvements was approximately **\$ 65,000**

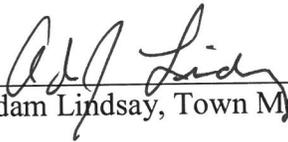
III. Notification

A notice of availability is published in the Clayton News-Star and at www.townofclaytonnc.org. A report may be picked up from the customer service counter at Town Hall or the Operations

Center at 653 NC 42 West. Customers may also call 919-553-1530 to request a copy by mail. It may also be viewed on-line at the Town's Web Site (www.townofclaytonnc.org).

IV. 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.



Adam Lindsay, Town Manager

8-22-18

Date

This report is drafted to meet the reporting requirements established in House Bill 1160 and the Clean Water Act of 1999.