

**Wastewater System Performance Annual Report
Fiscal Year 2018-2019
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 and treatment system recorded a good performance record for the twelve-month period from July 1, 2018 to June 30, 2019. The facility met the permit conditions with the following exception:

The facility reported a bypass of the effluent pump station on 4/13/2019 for ~ 210,000 due to localized flooding in the collection system area. No environmental impacts were noted.

The treatment facility treated 670,141,594 gallons during the period and met NPDES permit limits. With the following exception:

The effluent from the facility exceeded the weekly BOD limit of 7.5 mg/l, the Town reported a 11.25 mg/l. No environmental impacts were noted.

Clayton sent 83,171,188 gallons to Raleigh, and 267,919,000 gallons to Johnston County for treatment.

The treatment facility delivered 10,132,214 gallons of reclaimed water to Pine Hollow Golf Course.

The total system flow for the year: 1,031,313,996 gallons

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 collection system had 3 overflows during the period that did not meet the reporting criteria. The collection system had 3 overflows during the period that did require reporting which are listed below:

Reportable Collection System Sanitary Sewer Overflows

Date	Location	Gallons	Cause
7/28/18	NC Hwy 42 W at Walnut Creek Dr.	3,000	FM Damage by Contractor
1/10/19	602 Mial St	100	Debris in gravity line(Steel MH Step)
6/6/19	Outfall behind 955 Randolph Dr.	28,285	FM Damage by Contractor

Corrective measures for the overflows included line repairs, cleaning the line(s) involved and the immediate area(s) in accordance with State guidelines, I & I Investigation. 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	\$11,782
Riverwood Greenway trail/outfall access \$10,625	
ALTA Outfall Stabilization \$1,157	
2 City L/S Bypass Pump Connection	\$5,200
3 Chemical Root Control	\$9,577
4 Clearing/Vegetation Control at L/S and on easements	\$6,540
5 Manhole I&I rehab	\$65,333
6 Forest Glen L/S Abandonment & Gravity Line	\$16,098
7 Clayton/Raleigh Sampler & Bypass Improvements	\$11,601
8 Clayton/Raleigh L/S completion & FM Connection	\$293,913
9 Wynston L/S Bypass Connection & Pump Purchase	\$66,477
10 Central L/S Abandonment	\$331,109
11 W. Horne Street Improvement Project sewer replacement	\$209,585
12 Walnut Creek/Glen Haven L/S abandonment design	\$24,750
13 Hamby St. Sewer line replacement	\$10,060
14 Little Creek outfall replacement design	\$32,300
15 Regency Dr. & S. O'Neil/Blanche St Improvement Design	\$13,971
16 Vactor Truck, Debris Dump Site Improvements	\$10,650
17 CMMS Implementation Project	\$240,000

The cost of these improvements was approximately

\$ 1,358,946

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

Completed a capacity study for future planning.

Rehabilitated effluent transfer pump.

The cost of these improvements was approximately

\$ 80,000

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

8-21-19
Date

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



TOWN OF CLAYTON
Public Works, Water/Sewer, & Electric
653 NC Hwy 42 W., P.O. Box 879
Clayton, NC 27528
Phone: 919-553-1530
Fax: 919-553-1541

August 19, 2019

System Performance Annual Report
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, NC 27699-1617

In accordance with House Bill 1160 and the Clean Water Act of 1999, three copies of the Wastewater System Performance Annual Report for FY 2018-19 are being sent to you for NPDES Permit # NC0025453, Laboratory Certification # 348 and Collection System Permit # WQCS 00110.

If there are any questions concerning the report or any further information is required, please contact the Operation Center at (919)553-1530.

Sincerely,

Rich Cappola, PE
Public Services Director



TOWN OF CLAYTON
Public Works, Water/Sewer, & Electric
653 NC Hwy 42 W, P.O. Box 879
Clayton, NC 27528
Phone: 919-553-1530
Fax: 919-553-1541

August 19, 2019

The Clayton News Star
109 Ellington Street
Clayton, NC 27520

ATTN: LEGAL DEPARTMENT

In accordance with NC House Bill 1160 and the Clean Water Act of 1999, the Town of Clayton makes available an annual Wastewater System Performance Report. One of the means provided to accomplish this is for a newspaper that has circulation in the service area to publish the following information:

The Town of Clayton's FY 2018-2019 Wastewater System Performance Report is now available. A copy of the report may be obtained from the Operations Center on NC 42 West. To obtain a copy by mail, please call 919-553-1530. It may also be viewed on-line at the Town's Web Site (www.townofclaytonnc.org).

Thank you for the help with this.

Sincerely,

Byron W. Poelman
Distribution & Collection System Manager

Cc: Stacy Beard, Public Information Officer