

**Annual Wastewater System Performance Report
Fiscal Year 2020-2021
Town of Clayton**



Town of Clayton, North Carolina

Annual Wastewater System Performance Report

August 2021

**Wastewater System Performance Annual Report
Fiscal Year 2020-2021
Town of Clayton**

I. General Information

Responsible Entity: Town of Clayton

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

ORC: William Simpson--LCWRF

James Blalock--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 28 lift stations, approximately 136 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, 2020 to June 30, 2021. The facility met the permit conditions with the following exception:

The facility reported a bypass of the influent pump station on 03/14/2021 for ~ 428,800 due to a pipe failure at the influent structure. No environmental impacts were noted.

The treatment facility treated 603,885,000 gallons during the period and met NPDES permit limits.

Clayton sent 133,031,616 gallons to Raleigh, and 377,493,190 gallons to Johnston County for treatment.

The treatment facility delivered 7,382,218 gallons of reclaimed water to Pine Hollow Golf Course.

The total system flow for the year: 1,121,792,024 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 1 overflow during the period that did not meet the reporting criteria. The collection system had 4 overflows during the period that did require reporting which are listed below:

Reportable Collection System Sanitary Sewer Overflows

Date	Location	Gallons	Cause
08/05/20	454 Averasboro Dr	2,400	Horizontal FM Break
09/01/20	800 NC Hwy 42 E	500	Heavy Rains, I&I
12/18/20	442 E. Main St.	50	Grease/broken pipe
03/19/21	11351 US Hwy 70 Bus W	1,400	Debris from broken line

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 Wet Well aeration system installation	\$11,452
2 New Pump & impeller Flamingo L/S	\$15,413
3 Chemical Root Control	\$13,049
4 Clearing/Vegetation Control at L/S and on easements	\$5,850
5 Bypass pump piping insulation	\$11,800
6 Summerlyn/Glen Laurel #3 Bypass pump purchase & Installation	\$294,753
7 Summerlyn/Glen Laurel# 3 Bypass pump design	\$12,500
8 Regional L/S Study & L/S abandonment	\$23,700
9 Ellington subd. Easement stabilization	\$4,875
10 Fayetteville St. Aerial stabilization	\$14,550
11 Liberty & W Main L/S abandonment design	\$22,657
12 Moore St. Ditch stabilization	\$45,245
13 Little Creek outfall replacement design	\$21,886
14 Two new Vactors for line cleaning & wet wells	\$865,382
15 New Protheus Sewer camera for CCTV	\$131,219

The cost of these improvements was approximately

\$ 1,494,331



TOWN OF CLAYTON

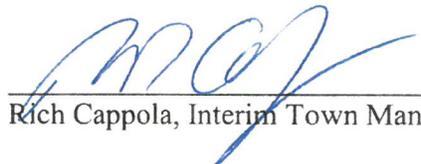
Public Works, Water/Sewer, & Electric
653 NC Hwy 42 W., P.O. Box 879
Clayton, NC 27528
Phone: 919-553-1530
Fax: 919-553-1541

III. Notification

A notice of availability is published in the Johnstonian News 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.



Rich Cappola, Interim Town Manager

8/13/2021
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 13, 2021

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 2020-21 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,

Byron Poelman
Water Resources 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
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August 13, 2021

The Johnstonian News
614 E. Market St.
Smithfield, NC 27577

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 2020-2021 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,

James E. Blalock
Water Resources Maintenance Superintendent

Cc: Nathanael Shelton, Public Information Officer