

**Wastewater System Performance Annual Report
Fiscal Year 2010-2011
Town of Clayton**

I. General Information

Responsible Entity: Town of Clayton

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

Operators in Responsible Charge: 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 89 miles of gravity sewer and approximately 20 miles of force main.

II. Performance

The collection system recorded a good performance record for the twelve-month period from July 1, 2010 to June 30, 2011. The facility met all the permit conditions during the period. One process bypass was reported.

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 579,396,000 gallons during the period.

The treatment facility experienced one process bypass during the period and met NPDES permit limits.

The treatment facility delivered 18,064,911 gallons of reclaimed water to Pine Hollow Golf Course.

The collection system had 6 overflows during the period that did not meet the reporting criteria. The collection system had 7 overflows during the period that did require reporting. These are listed below:

Reportable Collection System Sanitary Sewer Overflows

Date	Location	Gallons	Cause
08/24/10	514 Westminster Dr.	300	4.5" of rain in 2.5 hours, LS flooded
08/24/10	814 Iris St. Peele Lift Station	100	4.5" of rain in 2.5 hours, LS flooded
08/24/10	Little Creek outfall multiple MH's	200	4.5" of rain in 2.5 hours, flash floods
09/30/10	210 E. Front St.	2,200	Heavy rains, broken clean out cap
10/25/10	11690 US 70 Hwy Bus W.	88,000	Line failure in 10" VCP
11/15/10	737 Carter St.	200	Grease
01/20/11	535 N. Church St.	12,600	Grease

Corrective measures for the overflows included line repairs, cleaning the line(s) involved and the immediate area(s) in accordance with State guidelines. Chemical Root Control was used on several lines with root intrusion. 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:

- JMH Force Main connection design, \$3,585
- Sewer Easement Access/Grading, \$11,173
- S. Barbour St. sewer line replacement, \$33,240
- 11690 US 70 Hwy Bus W. point repair, \$3,386
- Central L/S, control panel replacement, \$32,581
- Clearing/Vegetation Control on easements, \$16,500
- Central Outfall, repair creek crossing piers, \$1,250
- Install back-up generator at NRLS #1, \$5,675
- Chemical Root Control, \$3,255
- Manhole I&I rehab, \$24,002
- Glen Laurel #1, base plate replacement, \$4,035
- Little Creek outfall repair, S. Fayetteville St. Ext. \$3,950
- N. Fayetteville St. sewer line replacement, \$30,450
- Acquire spare pumps for L/S, \$12,800

The cost of these improvements was approximately \$ 185,882.

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.


R. Steven Biggs
Town Manager

7-27-11
Date

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