



Rutherfordton

A MINTED ORIGINAL

February 10, 2017

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

RE: Rutherfordton WWTP
NPDES Permit Number: NC0025909
Rutherford County

Dear Sirs,

Enclosed you will find the Annual Performance Report for the year of 2016 for the Town of Rutherfordton, North Carolina Wastewater Treatment Plant. We believe the report to be complete and accurate. The customers will be notified of the availability of the report through the local newspaper or sewer bills.

If you have any questions, please advise.

Sincerely,

Town of Rutherfordton

Doug Barrick
Town Manager

Town of Rutherfordton

129 N. Main St. Rutherfordton, NC 28139 828-287-3520 www.rutherfordton.net

“Service Forged at the Highest Standard”

**TOWN OF RUTHERFORDTON
WASTEWATER TREATMENT FACILITY**

ANNUAL PERFORMANCE REPORT

For the Calendar Year 2016

Prepared: January 2017

2016 Annual Performance Report
for the
Town of Rutherfordton
Wastewater Treatment Facility

I. General Information

Facility/System Name: Town of Rutherfordton Wastewater Treatment Plant

Responsible Entity: Town of Rutherfordton

Person in Charge/Contact: Mr. Doug Barrick
Town of Rutherfordton
129 N. Main Street
Rutherfordton, NC 28139
(828) 287-3520

Description of Collection System or Treatment Process:

The Town of Rutherfordton owns and operates a 3.0 MGD design capacity wastewater treatment plant that treats a combination of domestic and industrial wastewaters. The facility includes a mechanical bar screen, an aerated lagoon, and two secondary clarifiers. The secondary effluent is disinfected by use of Sodium Hypochlorite. Dechlorination will be provided by Sodium Bisulfite. The treated effluent is discharged into Cleghorn Creek, which is classified as a class "C" water. Cleghorn Creek is in the Broad River Water Basin.

Sludge handling and stabilization, at the facility is provided by a 0.442 MG sludge digester. The Town utilizes a land application program.

II. Compliance Performance

The North Carolina Department of Environment and Natural Resources (NCDENR) regulates the Town of Rutherfordton's effluent discharge under the National Pollutant Discharge Elimination System (NPDES). The NCDENR issued to the Town a NPDES Permit that includes water quality limits and sampling and monitoring requirements. The NPDES Permit requires the Town to test more than 21 different constituents in the treated water. The monitoring frequency for these constituents are set at various intervals such as continuous, daily, weekly, three times per week, twice per month, and quarterly. During the reporting period, the Town conducted 4,000 tests of the treated water before it was discharged to the creek. The WWTP achieved a Compliance Level of 99.92% with its NPDES Permit requirements. Following is a summary of the testing for the parameters that are assigned Water Quality Standards by the NPDES Permit. Please note the summary does not include parameters that only incorporate a monitoring requirement, nor does it include daily process control testing.

Constituent	Number of Test Required	Number of Test Conducted *
Flow	Continuous	Continuous
Biochemical Oxygen Demand (BOD)	244	268
Total Suspended Solids (TSS)	244	268
Ammonia	122	134
Fecal Coliform	122	137
Chlorine	260	254
Toxicity	4	4
Cyanide	24	27
Total Nitrogen	4	5
Total Phosphorus	4	5
Copper	26	29
Zinc	26	29
Silver	12	13
PPA	1	1

* Testing is not required during Holidays or Inclement Weather.

In addition to the required testing, the Town conducted over 2,555 in-house tests to ensure the proper operation of the wastewater treatment plant.

Following is a summary of the permit violations, which occurred during the year.

June 2016

The weekly average limit for Fecal Coliform was exceeded during the week of the 6th.

Summary of Overflows/Spills of the Collection System:

July 13, 2016 - Sanitary Sewer Overflow from the Manhole Located at 131 N. Washington Street.

- Volume - 18 Gallons of Overflow with 5 Gallons reaching Surface Water
- Cause – Debris in the Sewer Line
- Duration- 30 Minutes

June 16, 2016 – Pump Station Overflow from the Sandy Plains Pump Station

- Volume- 1,556 Gallons of Overflow with None Reaching Surface Water
- Cause- Float device failed to activate pumps, along with debris in the wet well
- Duration – 20 Minutes

February 2, 2016 - Sanitary Sewer Overflow from the Manhole Located at the intersection of Azalea Drive & Edwards Street

- Volume- 100 Gallons of Overflow with 75 Gallons reaching Surface Waters
- Cause – Debris in the Sewer Line
- Duration – 20 Minutes

Part III- Certification

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for summiting false information.

Signed this 10th day of February 2017.



Doug Barrick, Rutherfordon Town Manager