

**TOWN OF BLADENBORO
WASTEWATER TREATMENT FACILITY**

ANNUAL PERFORMANCE REPORT

For Calendar Year: 2020

Prepared: February 22, 2021

2019 Annual Performance Report

Town of Bladenboro

Wastewater Treatment Facility

I. General Information

Facility/System Name: Town of Bladenboro Wastewater Treatment Plant

Responsible Entity: Town of Bladenboro

Person in Charge/Contact: Alton L. Brisson
Operator Responsible in Charge (ORC)
PO Box 455
Bladenboro, NC 28320-0455
(910)863-3655

Description of Wastewater Plant and Collection System:

The Town of Bladenboro owns and operates its own wastewater treatment system. The wastewater treatment facility consists of two sewage lift stations and a 0.500 MGD wastewater treatment plant. The unit processes in the treatment train include an influent bar screen, pump station, dual activated sludge aeration basins, and three secondary clarifiers. Secondary clarifier effluent is then routed through a four cell down flow set of sand filters for tertiary treatment. Effluent disinfection and de-chlorination are provided by Chlorine and calcium thiosulfate. The wastewater treatment plant's design incorporates an aerated sludge holding tank. A sludge hauling contractor periodically removes liquid sludge from the facility and land applies the material on area permitted sites. The treated effluent is ultimately discharged to Bryant Swamp, a Class "C" swamp waters in the Lumber River Basin or sprayed onto a permitted site for land irrigation. The operation and maintenance of a wastewater collection system consisting of, at the time of permit issuance, approximately 20 miles of gravity sewer, approximately 2 miles of force main, 2 duplex pump stations, and all associated piping, valves and appurtenances required to make a complete and operational wastewater collection system to serve the Town of Bladenboro.

II. Compliance Performance

The North Carolina Department of Environment and Natural Resources (NCDENR) regulate the Town of Bladenboro effluent discharge under the National Pollutant Discharge Elimination System (NPDES). The NCDENR issued to the Town of Bladenboro a NPDES Permit, which includes water quality limits and sampling and monitoring requirements. The NPDES Permit requires the Town to test more than 14 different constituents in the treated water. The monitoring frequency for these constituents are set at various intervals such as continuous, daily, weekly, monthly and quarterly. During the reporting period, the Town conducted 954 tests of the treated water before it was discharged to the creek. The WWTP achieved a compliance level of over 99% (number of test passed/number of test taken, as indicated on following chart {862/865=.0065}) with the NPDES Permit requirements.

Following is a summary of the testing for the parameters, which are assigned Water Quality standards by the NPDES Permit. Please note the summary does not include parameters, which incorporate a monitoring requirement only, nor does it include daily process control testing.

Constituent	No. of Test Required	No. of Test Conducted*
Flow	Continuous	Continuous
Biochemical Oxygen Demand (BOD)	52	53
Total Suspended Solids (TSS)	52	53
Ammonia	52	53
Fecal Coliform	52	62
Chlorine	104	106
Total Nitrogen	12	24
Total Phosphorus	12	24
Mercury	0	0
Temperature	365	250
Toxicity	0	0
Dissolved Oxygen	260	250
PH	52	55

*Testing is not required on holidays or during inclement weather, which may affect the number of daily tests conducted.

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

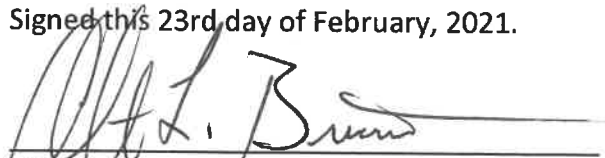
June 2020 Fecal Coliform

The Town of Bladenboro reported the above permit violations to the state through a system of self-monitoring. All violations were remedied through remedial action with the North Carolina Department of Environment and Natural Resources.

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 submitting false information.

Signed this 23rd day of February, 2021.



Alton L. Brisson (ORC)

To: Whom it may concern

From: Town of Bladenboro

Re: Collections System

Date: February 23, 2021

There were not any reportable overflows/spills for the Town of Bladenboro's sewage collection system for the year 2020.



Andrew P. Coleman, ORC
Collections System