

WWTP
699 Scout Lane
PO Box 700
Elizabethtown, N.C. 28337

TOWN OF
ELIZABETHTOWN

Tel (910) 862-2035
Fax (910) 862-2612
www.elizabethtownnc.org
Email bstephens@elizabethtownnc.org

Brian Stephens
WWTP Manager

Town of Elizabethtown
Wastewater Treatment Plant

ANNUAL PERFORMANCE REPORT
For the Calendar Year 2019

Prepared: January 2020

"The mission of the Town of Elizabethtown is to deliver cost-effective services that promote public health and safety and enhance the quality of life of all citizens."

2019 Annual Performance Report

For the

Town of Elizabethtown

Wastewater Treatment Facility

I. General Information

Facility/System Name: Town of Elizabethtown Wastewater Treatment Plant

Responsible Entity: Town of Elizabethtown

Person in Charge/Contact: Eddie Madden
Town Manager
P.O. Box 700
Elizabethtown, NC 28337
(910) 862-2066

Description of Wastewater Treatment Process:

The Town of Elizabethtown, North Carolina owns and operates a 1,225 MGD design capacity wastewater treatment plant (WWTP) that treats a combination of domestic and industrial wastewaters. The wastewater treatment plant is comprised of sequential batch reactors and extended aeration treatment process. The treatment units include a mechanical bar screen, sequencing batch reactors and extended aeration basins that are followed by secondary clarification. The treated effluent is chlorinated and dechlorinated prior to discharge to the Cape Fear River. Biosolids generated are aerobically digested and lime stabilized prior to land application on permitted land.

II. Compliance Performance

The North Carolina Department of Environment and Natural Resources (NCDENR) regulate the Town of Elizabethtown'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 monitor more than 15 constituents in the treated wastewater. The frequency of testing is at different intervals such as continuous, daily, weekly, monthly and quarterly. During 2019, the Town

conducted hundreds of tests of the treated wastewater to ensure compliance with NPDES Permit limits before being discharged into the Cape Fear River.

Following is a summary of the testing required to satisfy the standards set forth in the NPDES Permit.

Constituent	Number of Tests Required	Number of Tests Conducted
	Continuous	Continuous
Flow		
Biochemical Oxygen Demand	105	105
Total Suspended Solids	105	105
Ammonia Nitrogen	105	105
Dissolved Oxygen	156	205
Fecal Coliform	105	105
Chlorine Residual	156	205
pH	156	205
Temperature	260	365
Total Nitrogen	12	12
Total Keldahl Nitrogen	12	12
Nitrate + Nitrite Nitrogen	12	12
Total Phosphorus	12	12
Chronic Toxicity	4	4
Effluent Pollutant Scan	0	0

In addition to required testing, the Town also conducted hundreds of in-house tests to ensure the proper operation of the Wastewater Treatment Plant.

Following is a summary of permit violations which occurred in 2019

- 1) There was one weekly average exceedance for fecal coliform during 2019.