

This is the **Annual Performance Report** for 2021 for the Town of Jefferson Wastewater Treatment Plant and its outlying sanitary sewer collection system, permits NC0021709 and WQCS00220 respectively. Our mission statement for managing our water resources facilities is expressed in three areas:

- To surpass all North Carolina DWQ and US EPA Clean Water Standards
- To operate in the most cost-conscious manner possible for our customers
- To protect and enhance the public health of the New River Basin

COLLECTION SYSTEM PERFORMANCE is critical to our river basin. The Town of Jefferson maintains about 18 miles of sanitary sewers and five pump stations. The system did not experience any sanitary sewer overflows which reached surface waters. Town crews make efforts to locate and eliminate sources of inflow which allow surface water to enter the collection system. Maintenance personnel also routinely enter manholes to remove materials such as “disposable” wipes. We request our customers not to flush wipes into the sewer because they do not dissolve and therefore create significant potential for blockages that may result in sewer main overflows. **We salute our Water Resources and Public Works personnel who worked tirelessly ON THE JOB during the pandemic under very difficult conditions.**

We also ask customers to refrain from placing cooking grease and oils into their drains. **Please find the attachment regarding proper disposal of FATS, OILS, & GREASE (FOG) in your home to prevent blockage of sanitary sewer service lines and mains.**

WASTEWATER PLANT PERFORMANCE was again within all discharge permit limits. The average daily flow was 0.255 mgd, which is about 42% of the plant’s permitted capacity. Jefferson’s WWTP discharges into Naked Creek which flows into a section of the New River that is designated by NCDWQ as Outstanding Resource Waters. As a result, the Town’s discharge permit has limits that are stricter than many other permittees in North Carolina. The tables below compare average measurements of the plant discharge quality to the permit limits for each parameter.

April through October, 2020

PARAMETER	OUR DISCHARGE, mg/L	PERMIT LIMIT, mg/L
BOD	0.9	5.0
TSS	1.1	20.
Ammonia nitrogen	0.12	2.0
Fecal coliform	79 organisms/100 ml.	200 organisms/100 ml.

November through March, 2020

PARAMETER	OUR DISCHARGE, mg/L	PERMIT LIMIT, mg/L
BOD	0.6	10.0
TSS	1.0	20.0
Ammonia nitrogen	0.02	4.0
Fecal coliform	40 organisms/100 ml.	200 organisms/100 ml.

Please direct any questions regarding water quality issues Tim Church at (336) 246-2165. Thank you for your cooperation as we continue to protect and enhance the waters of the New River Basin.