

Town of Jefferson

ALDERMEN

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This is the **Annual Performance Report** for 2022 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. Town crews make efforts to locate and eliminate sources of inflow/infiltration that allow surface water to enter the collection system. These methods include video by sewer cameras and smoke testing of main trunk lines.

The Town requests its customers to refrain from flushing disposable wipes into the sewers. These products often lead to blockage of sewer mains and create maintenance issues in pumping systems at the wastewater treatment plant. The preferable means of disposing wipes is to place them in household garbage and trash receptacles instead of flushing this material into the sewer.

Customers are also asked to refrain from placing cooking grease and oil 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.**

The Town of Jefferson recently completed a project to establish telemetric communication between our water/wastewater facilities, allowing operators to access real time information via handheld devices regarding the function of wells, water treatment plant components and all sewer lift stations. This feature reduces required on-site visits to the lift stations and alerts operators of any conditions that might lead to overflows at the stations. This is a welcome addition that will immediately increase the efficiency of system operation.

On 11/11/22 a Sanitary Sewer Overflow occurred from a manhole adjacent to 1233 NC Highway 16. About 1,000 gallons of untreated wastewater entered Naked Creek. The NC Division of Water Resources was notified 11/11/22. The event was caused by flooding associated with severe rainfall conditions that day. The Town of Jefferson continues to incorporate measures that will mitigate the impact of rainfall events that contribute large amounts of flow to the collection system.

WASTEWATER PLANT PERFORMANCE was again within all discharge permit limits. The average daily flow was 0.255 million gallons per day 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 North Carolina Division of Water Quality as Outstanding Resource Waters. As a result, the Town's discharge permit has limits that are stricter than those of 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, 2022

PARAMETER	OUR DISCHARGE, mg/L	PERMIT LIMIT, mg/L
BOD	3.2	5.0
TSS	1.2	20.
Ammonia nitrogen	0.08	2.0
Fecal coliform	25 organisms/100 ml.	200 organisms/100 ml.

November through March, 2022

PARAMETER	OUR DISCHARGE, mg/L	PERMIT LIMIT, mg/L
BOD	1.8	10.0
TSS	0.4	20.0
Ammonia nitrogen	0.09	4.0
Fecal coliform	92 organisms/100 ml.	200 organisms/100 ml.

Additional required sampling of the wastewater plant effluent includes numerous metals, nutrients such as nitrogen and phosphorus, and various volatile organic compounds. A significant part of the wastewater plant annual budget is directed toward satisfying the analytical requirements of our discharge permit.

Please direct any questions regarding water quality issues to 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.

WAN'T FEED: YOUR DRAIN'S WORST ENEMY

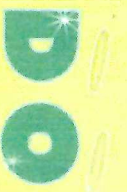


the Grease Goblin

LAST SEEN
Loitering in Sinks
and Drains

WANTED FOR
Causing Sewer Overflows

Don't Feed the Grease Goblin!



- ✓ Put oil and grease in collection containers
- ✓ Remove oil and grease from kitchen utensils, equipment, and food preparation areas with scrapers/towels/brooms



- ✗ Pour oil and grease down drains
- ✗ Wash fryers/griddles, pots/pans, and plates with water until oil and grease are removed
- ✗ Use hot water to rinse grease off surfaces
- ✗ Put food scraps down drains

Help keep this guy out of your drains and in the hands of the proper authorities!



N.C. DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF POLLUTION PREVENTION AND ENVIRONMENTAL ASSISTANCE 1-800-763-0136