



2023

# SYSTEM PERFORMANCE ANNUAL REPORT

## WASTEWATER TREATMENT PLANT

### I. General Information

Facility Name: Cherryville Wastewater Treatment Plant

Location: 736 Tot Dellinger Road  
Cherryville, NC 28021 Gaston County

Responsible Entity: City of Cherryville, North Carolina

Person in Charge: Larry Wright, Wastewater Treatment Plant ORC / Plant Superintendent  
(704) 435-1739 lwright@cityofcherryville.com

Backup ORC: Chris Heedick, Wastewater Treatment Plant Lab & Backup ORC  
(704) 435-1739 cheedick@cityofcherryville.com

### Applicable Permits:

<u>TREATMENT WORKS</u>	NC 0044440	Expires 07/31/2026
<u>LAB CERTIFICATION #</u>	5619	Expires 12/31/2024
<u>STORMWATER PERMIT#</u>	NCGI 10135	Expires 05/31/2028
<u>LAND APPLICATION PERMIT#</u>	WQ0000430	Expires 08/31/2026

## Description of Treatment Process:

This facility is located on Tot Dellinger Road just outside the city limits. The Plant is an activated sludge plant designed to treat 2.0 MGD - million gallons per day: The facility consist of a bar screen, grit removal, dual oxidation ditches, dual secondary clarifiers, chlorine disinfection and de-chlorination system, flow measurement, cascade aeration, aerated sludge holding tank, sludge storage lagoon, and sludge drying beds which are no longer in use. Currently we are only running half of the plant due to the low flow. This Facility discharges into the Indian Creek, which is classified C water in the Catawba River Basin.

## II. Performance

### Summary of System Performance for calendar year 2023:

This Facility is well maintained and in good operational condition. Effluent from the secondary clarifiers is of high quality with few suspended solids. The mixed liquor in the aeration basin are mixed well and is maintained at a sufficient dissolved oxygen level for the biological process to operate properly. The mixed liquor in the secondary clarifiers exhibits Good settling characteristics. We drip feed 50% Caustic to maintain alkalinity when needed.

Records concerning instrument calibration and process control are being maintained in accordance with NPDES Permit requirements.

The discharge monitoring reports (DMRs), chain-of-custody forms, and laboratory analyses form are readily available for review in the facility' s office. All records are complete and up to-date.

### Overall. (or the previous twelve (12) months this facility has performed well.

The Wastewater Plant is running smoothly and everything is in good working order. We passed all of our quarterly toxicity testing and was within our permit limits on our monthly DMR reports. We did receive one Notice of Violation during the year of 2023. It was from the Aquatic Toxicology Branch, ATB, they did not receive our toxicity self-monitoring report form for the month of June 2023 within 30 days after the reporting period. This is in violation of Title 15A of the North Carolina Administrative Code, Chapter 2, Subchapter 2B, Section .0506 (a)(1)(A) which states that “monthly monitoring reports shall be filed no later than 30 days after the end of the reporting period for which the report was made. We responded with a letter to NCDENR of correction action to assure this does not happen again and also sent the Tox results in for June 2023. We finished rehabbing Oxidation Ditch #1 at the plant and plan on switching over to it in 2024. We have plans to rehab Oxidation Ditch #2 in 2024. The screenings from both the bar screen and grit removal system are contracted by Berry's Container Service LLC. The screenings are hauled to the Gaston County landfill. Our land application is contracted by Synagro Central, LLC. We contact our Analytical and Toxocity testing out to Meritech Lab, Inc. in Reidsville, NC.

The City of Cherryville is currently in the process of updating some of its sewer lines and the water lines were updated as part of the approved 9.5 million dollar bond.

FLOW MEASUREMENT:

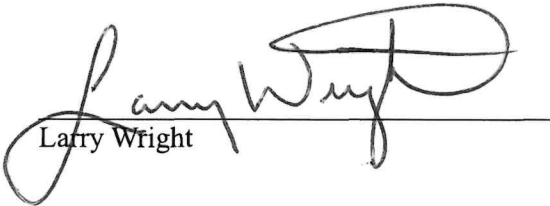
The effluent flow are being measured using an ultrasonic flow meter with a totalizer. Carolina Technical Services, Inc. of China Grove, North Carolina calibrates the flow meter quarterly. The contracted company (performing the meter calibration) should document a comparison of an instantaneous flow measurement to the flow meter's recorded flow rate to verify that the flow meter's accuracy is within 10% of the actual discharge.

A full and complete copy of The City of Cherryville Wastewater Treatment Plant's "Performance Annual Report" will be posted on a prominent Bulletin Board located at the City Hall of Cherryville and the Wastewater Treatment Plant.

Certification

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and the users have been notified of its availability.

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Larry Wright

1-8-2024  
Date

cc: Brian Dalton City Manager