



2024

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: Chris Heedick, Wastewater Treatment Plant ORC/Plant Superintendent
(704) 435-1739 cheedick@cityofcherryville.com

Backup ORC: Larry Wright, Wastewater Treatment Plant Back up ORC
(704) 435-1739 lwright@cityofcherryville.com

Applicable Permits:

<u>TREATMENT WORKS</u>	NC 0044440	Expires 07/31/2026
<u>LAB CERTIFICATION #</u>	5619	Expires 12/31/2025
<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 consists 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 2024:

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 25% 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 2024-NOV-2024-LV-0874. Our ammonia exceeded the limit value. We had been working on the Return Sludge Pump and that caused our ammonia to go up for a week. By the time we saw that the ammonia was high for the week we contacted the lab to see what our numbers for the next week were and they were back to normal. No fines were issued and we responded with a letter to NCDENR. We finished rehabbing Oxidation Ditch #1 at the plant and plan on switched it over in January of 2024. We have plans to rehab Oxidation Ditch #2 in 2025. 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 contract our Analytical and Toxicity 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.

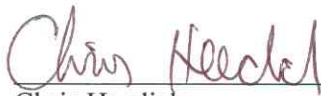
Flow Measurement:

The effluent flow is being measured using an ultrasonic flow meter with a totalizer. Carolina Technical Services, Inc. of China Grove, North Carolina calibrates the flow meter twice a year. 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 at 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.



Chris Heedick

1-21-2025

Date

cc: Brian Dalton City Manager