

101 E Cleveland St · PO Box 1065 · Dunn, North Carolina 28335 (910) 892-2948 · CityofDunn.org

City of Dunn 2024 Annual Wastewater Performance Report

I. **GENERAL INFORMATION:**

Facility Name(s):

Black River Wastewater Treatment Facility

Contact Person:

Donrie Dukes (WWTP) and Billy Cottle (Collection System)

Responsible Entity:

City of Dunn

Applicable Permit #: NC0043176 and WQCS00073

Telephone Number:

910-892-2935

We are pleased to present your Wastewater Annual Report. The Clean Water Act of 1999, passed by the North Carolina Assembly, requires Utilities to provide an annual report to their wastewater customers. This report summarizes the performances of your wastewater treatment plant and collection system over a 12-month period (January 1, 2024-December 31, 2024).

DESCRIPTION OF TREATMENT PROCESS:

The City of Dunn Black River Wastewater Treatment Facility (3.75 MGD) uses mechanical pretreatment processes to remove inorganic materials such as rags and sand. An extended aeration biological process is utilized for secondary treatment. This is followed by clarification, disinfection, and de-chlorination before the treated water is discharged into the Cape Fear River. Excess biosolids are thickened and stabilized before land application to permitted farm sites.

DESCRIPTION OF THE SANITARY SEWER COLLECTION SYSTEM: The collection system is comprised of 75 miles of gravity sewer, 13 miles of force mains, and 8 duplex lift stations. The collected wastewater is then sent to the City's wastewater treatment system for treatment.

П. **PERFORMANCE:**

Black River WWTP: The City of Dunn Black River Wastewater Treatment Facility had two reportable compliance violations in 2024. BRWWTP was non-compliant for the Effluent BOD parameter for week 1 in April. The average weekly limit of 18mg/l was exceeded. The average BOD for week one that was reported was 28.5 mg/l. The monthly BOD average of 12 mg/l was

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exceeded, the monthly average BOD reported was a 12.9mg/l. There were several contributing factors for the compliance violation. This is due to construction taking place at the WWTP, clarifiers and aeration basin trains were being taken out of service and new ones put in service causing upset to the system. This was 1 sample out of 104 pulled that year. The second violation was due to exceedance of permitted average flow. The average flow for the month of September was 4.058 MGD which exceeds our permitted flow of 3.75 MGD. In the month of September, we had 14.09 inches of rain that largely contributed to this violation.

NCDENR Reportable Sanitary Sewer Overflows (SSOs): During the 2024 compliance period, there were the following reportable SSOs.

Date	Total volume (Gallons)	Total Volume reaching surface water (Gallons)	Cause	Location
4/17/2024	300,000	0	Contractor hit 20" Force Main	1102 E Cumberland St
7/18/2024	90,000	90,000	Severe & Natural Conditions & Heavy Rain 17.35 inches in month of July	Eastside Lift Station
7/21\2024	48,000	48,000	Inflow/Infiltration	Eastside Lift Station
7/22/2024	432,000	432,000	Inflow/Infiltration	Eastside Lift Station
7/25/2024	780,000	780,000	Inflow/Infiltration	Eastside Lift Station
7/25/2024	36,000	36,000	Severe/Natural Conditions Pipe Failure	102 Carolina Dr
7/26/2024	120,000	120,000	Severe/Natural Conditions Pump Failure	552 J W Edwards Ln BR-8
8/8/2024	960,000	960,000	Severe/Natural Conditions Inflow/Infiltration	Eastside Lift Station
8/8/2024	36,000	36,000	Inflow/Infiltration	503 E Wake St
9/17/2024	360,000	360,000	Severe/Natural Conditions Inflow/Infiltration	Eastside Lift Station

III. NOTIFICATION:

This report is a matter of public record and will be filed in the City of Dunn, North Carolina Administrative Office. Notification to users or customers of the system will be made via the City's water bill of the availability of this report for viewing on the City website or at Public Works.

IV. 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 that the users have been notified of its availability.

| 1/23/2025 | Billy Cottle | Date |

Distribution & Collection Manager

Donrie Dukes

1/23/2025

Date

Wastewater Plant Manager/Superintendent/ORC