



THE TOWN OF
BOILING SPRINGS
NORTH CAROLINA

Annual System Performance Report 2020



Town of Boiling Springs
Wastewater Treatment Plant
2556 Rockford Road
Shelby NC 28152

Town of Boiling Springs Permits

Wastewater Treatment Plant NC0071943
Collection System WQCS00222
Land Application WQ0018352
Laboratory Certification 5013

Town of Lattimore Permits

Collection System WQCSD0717



System Overview

The Town of Boiling Springs wastewater collection and treatment system serves a customer base of 1065 residential, commercial and industrial users. During last year the Town of Boiling Springs Wastewater Treatment Plant (WWTP) collected and treated an average of 0.388 million gallons per day (MGD). Included in this flow is wastewater from the Town of Lattimore.

The Town of Boiling Springs sewer collection system consists of gravity sewer lines, pump stations and force-mains that convey wastewater to the Town's WWTP. The Town owns and maintains over 27 miles of gravity sewer lines, 7 miles of force main pipe, and 7 pump stations.

The Town also services the Lattimore sewer collection systems which is over 4.3 miles of gravity sewer lines and 5.06 miles of force main pipe, and 7 pump stations.

Compliance Summary

The Town of Boiling Springs WWTP has permit limits and monitoring requirements regulated by the North Carolina Department of Environment Quality Division of Water Resources. During the year, samples are collected and analyzed to show compliance and to monitor plant operations. NC DEQ requires all wastewater collection and treatment systems to annually report to its customers all sanitary sewer overflows, violations of state-issued permit limits and reporting requirements.

What Do Wastewater Plants Do

Wastewater treatment plants clean our wastewater and prevent pollution from getting into the environment. Wastewater enters our facility at our influent which consist of mechanical devices that catch and remove trash and large objects. Wastewater then flows thorough into the aeration basin where microorganisms breakdown the pollutants.

The wastewater then flows into final clarifiers where the microorganisms settle out and are returned to the basins. Some of these solids are removed from the system.

The solids, which have been removed from the process, are pumped to a digester basin where they are held until processed and ready for the Land Application process where the product is used as fertilizer for pastures.

Our final process is our ultra-violet light system that disinfects the treated wastewater before it is returned to Sandy Run Creek of the Broad River Basin.



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COLLECTION SYSTEM MAINTENANCE

The Town of Boiling Springs maintains collection system pipes and lines in order to prevent sanitary sewer overflows (SSOs) and keep wastewater flowing through the collection system to the treatment plant for treatment. During this report year, 2.7 miles of Boiling Springs sewer lines were cleaned by rodding/jetting.

The Town of Lattimore 4.3 miles of collection systems gravity sewer lines were smoke tested and .52 miles were jet cleaned during this report year.

Plant operators conduct inspections of all pump stations and perform both preventative and corrective maintenance on the stations and the force mains. The pump stations are monitored by auto-dialers and are equipped with back-up generation (either permanent or portable capabilities).

BOILING SPRINGS COMPLIANCE SUMMARY

Wastewater Plant Compliance

The WWTP received 1 non-compliance violation for Total Suspended Solids and 1 failure to monitor Total Nitrogen/Total Phosphorous in 2020

Sanitary Sewer Overflows

November 12, 2020 overflow amount 800 gallons

LATTIMORE COMPLIANCE SUMMARY

Sanitary Sewer Overflows

February 6, 2020 overflow amount 2,000 gallons

ENVIRONMENTAL PROGRAMS AND SERVICES INITIATIVE

As part of a commitment to support educational awareness and promote better learning, the Town of Boiling Springs offers tours of the wastewater treatment plant to various interest groups. For a tour of the plant, contact the Wastewater Plant Supervisor at (704) 300-8641.

FATS, OILS and GREASE PROGRAM

Grease is a leading cause of sewer blockages and overflows in the sewer system and can lead to sewer back-ups into homes. The Town of Boiling Springs urges residents to help our fight against grease:

Never pour grease down the drain.

Scrape grease and food scraps into the trash.

Use sink strainers to prevent food scraps from going down the drain.



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The Fats, Oil and Grease (FOG) Program seeks to reduce these occurrences by educating the public on how to prevent grease from entering the sewer system. Special emphasis has been placed on food service establishments, but we all need to do our part to keep grease out of the sewer system. For more information on our program, please contact:

Pretreatment Coordinator at (704) 300-8641

Dumping waste into the Town's manholes without permission is illegal. Residents can report suspicious activity, sewer overflows and other sewer issues any time by dialing (704) 434-2357.

Help Us Prevent Sewer Overflows

Please refrain from flushing non-degradable materials such as plastic, rags, feminine hygiene products, and other trash/debris!

LAND APPLICATION PROGRAM

The Town of Boiling Springs applies digested residuals/solids onto farm lands and pastures as permitted by North Carolina. The Town land applied 6.7 dry tons of residuals for the beneficial reuse as a soil conditioner and fertilizer.

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 public and the public has been notified of its availability.

Todd Humphries
Wastewater Plant ORC
Collection System ORC
Land App ORC

Mike Gibert
Public Works Director
Town of Boiling Springs

Date: 2-18-21

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**Copies of this report are available at Town Hall located at 114 East College Avenue
Notification of availability is provided by the Town's website at www.boilingspringsnc.net
and via utility bills.**