

July 20, 2022

Attn: System Performance Annual Report
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, NC 27699-1617


Ref: Annual Report for Collection Permit No. WQCS001170
Annual Report for Wastewater Permit No. NC0026557

North Carolina General Statute Chapter 143, Article 21, Part 1, 143-215.1C requires municipalities that operate wastewater collection and treatment systems to publish an annual report summarizing the performances of their collection system and treatment works and the extent to which the system has violated their permit, federal or state laws, regulations, or rules related to the protection of water quality.

Enclosed please find the annual report for the Town of Bryson City for January 1, 2021-December 31, 2021. We believe the report to be complete and accurate. The customers will be notified of the availability of the report through the local newspaper and the Town website.

If you have any questions, please contact me at 828-488-3335 or email at reginamathis@brysoncitync.gov.

Sincerely,


Regina Mathis
Town Manager

Cc: North Carolina Division of Water Quality
2090 U.S. 70 Highway
Swannanoa, NC 28778

Town of Bryson City
Annual Performance Report

I. General Information

Facility System Name:	Town of Bryson City 315 Riverview Drive Swain County Permit Wastewater Treatment: NC0026557 Collections Permit: WQCS00170
Person in Charge:	Wastewater Plant ORC-Environmental, Inc. Collection System ORC-Tom Shook

Description of System:

Bryson City operates a 0.6 MGD wastewater treatment facility located at 315 Riverview Road southwest of Bryson City in Swain County. The treatment components include: mechanical bar screen, two contact stabilization treatment units consisting of influent pumping, reaeration zones, secondary clarifiers, sludge digester, belt press, sludge dry storage, chlorination, and dechlorination. Discharge from the treatment enters into the Tuckasegee River, a class B water within the Little Tennessee River Basin. The Town operates a sanitary sewer system composed of gravity sewer lines, constructed of various materials, including vitrified clay, PVC and ductile iron. Seven lift stations are presently operating within the collection system.

II. Notice of Violations: Summary of System Performance from January 1, 2021-December 31, 2021

January 2021

Notice of violation on 1/26/2021 at the wastewater treatment plant influent pump station. There was a 500-gallon spill due to equipment failure.

February 2021

On February 25, 2021, during a compliance inspection of the wastewater treatment plant the following violations were found

- 1) **Bar Screens** were not functioning adequately to maintain continuous facility compliance. **Response:** The bar screens will be monitored and cleaned on a regular basis. The Town of Bryson City is working with McGill Associates and USDA to design and fund either a new plan or the complete rehabilitation of the existing plant. The bar screen will be addressed during this process.
- 2) **Pumps**-The return pump was not working because there was a hole in the line. **Response:** The Town purchased 3 pumps and 160 ft of hose as a temporary fix. Environmental Inc. repaired the hole.
- 3) **Disinfection-Liquid**- The chlorine contact chamber had excess solids and a high sludge blanket. **Response:** The chlorine contact chamber will be cleaned more frequently.
- 4) **Effluent Sampling**- The composite sampler was not working and the thermometer was broken at the time of inspection. **Response:** A new thermometer was ordered to replace the broken one. The sampler was replaced with a new one.

- 5) **Flow Measurement-Effluent**-The effluent weir plate was breaking loose from the concrete.
Response: The effluent weir plate was repaired by the Town.

Notice of violation on 2/28/2021 due to exceeding the monthly average of flow through the wastewater treatment plant. The limit is .6 and the reported value was .65.

March 2021

Notice of violation and intent to access civil penalty for violation on 3/31/2021 due to exceeding the monthly average of flow through the wastewater treatment plant. The limit is .6 and the reported value was .68. We had several days of heavy rain during the month of March. Due to the inflow and infiltration in our system, the plant exceeded the flow limit. We have continued to work with McGill and Associates on an Asset Inventory and Assessment Grant (AIA) totally \$150,000 to conduct comprehensive inflow/infiltration evaluation of our sanitary sewer collection system. The Town has also secured \$8,780,000 from USDA to begin Phase I of the Sewer Collection system Rehabilitation Project. This project will specifically dilapidated lines in our system to correct areas of the inflow and infiltration. In addition, we were awarded \$1,492,000 from a Community Development Block Grant (CDBG) for the Carringer Street Sewer Improvement Project which includes replaced of 4,100 linear fee of dilapidated clay sewer lines.

III. Work Performed

<u>Date</u>	<u>Work Performed</u>	<u>Location</u>
1/7/21	Jetted and camera sewer line	Joe and Kate Laundry Mat
1/8/21	Pulled Pump #2 and cleared debris	WWTP
1/13/21	Repaired 4" PVC sewer line & installed cleanout	Behind Madison's on Main
1/26/21	Pulled pumps at and cleaned well and pumps	WWTP
1/27/21	Worked on Recreation Park lift station	Recreation Park Lift Station
	Worked on wet well	WWTP
1/29/21	Jetted sewer line	Behind First Citizens Bank
2/2/21	Changed Floats at Lift Station	Governor's Island
2/8/21	Installed 6" sewer tap	Mtn Layers
	Installed 4" sewer tap	Rice Wagon at Mtn Layers
2/10/21	Pulled pump #3	WWTP
2/19/21	Jetted sewer line	Fry Street
	Jetted sewer line	Collins Street
3/4/21	Installed new pump	WWTP
3/15/21	Jetted sewer line	Hwy 19
3/16/21	Pulled pump #3	WWTP
	Jetted sewer line	Fry Street
3/25/21	Pulled pump #3	WWTP
4/8/21	Jetted sewer line	Arlington Avenue
4/12/21	Changed starter contact at lift station	Rec Park Lift Station
	Jetted sewer line	Lemons Branch Rd
4/19/21	Jetted sewer line	Lemons Branch Rd
4/27/21	Installed two 4" sewer taps	Dunbar Street
5/10/21	Cleaned wet well	Lackey Hill Lift Station
5/11/21	Cleaned sewer line	Hwy 19
	Replaced 50' of sewer line	Lemons Branch

5/21/21	Installed two 4" sewer taps	Hwy 19
5/25/21	Pulled pumps	WWTP
5/26/21	Cleaned wet well	WWTP
6/7/21	Camera sewer line	Bryson Walk
	Camera sewer line	Hwy 19
6/8/21	Brought buried manhole up to grade	Hwy 19
6/15/21	Camera sewer line	Pine Street
	Camera sewer line	Orchard Street
6/17/21	Replaced 140' old with new 8" PVC	Clifton Avenue
6/23/21	Replaced 140' old with new 8" PVC	Clifton Avenue
6/28/21	Installed 4" sewer tap	Graham Street
6/30/21	Replaced 120' old with new 6" ductile	Pine Avenue
7/7/21	Cleaned wet well	Lackey Hill Lift Station
7/9/21	Installed new soft start on pump #3	WWTP
	Pulled pump #2	WWTP
7/12/21	Pulled pump	Lackey Hill Lift Station
7/14/21	Changed floats	Campground Lift Station
7/22/21	Jetted sewer line	Veterans Blvd
7/23/21	Installed new suction lift pipe	Rec Park Lift Station
7/26/21	Pulled pump	Lackey Hill Lift Station
8/2/21	Located and repaired I&I	Main Street
9/7/21	Graded sewer cleanouts	Dunbar Street
9/23/21	Jetted sewer line	River Street
9/27/21	Changed manhole ring and lid	Bennett Hill
10/6/21	Camera sewer line	Florida Avenue
10/7/21	Camera sewer line	Franklin Grove
	Camera sewer line	Johnson Branch
10/15/21	Cleaned sewer line	Behind First Citizens Bank
11/2/21	Cleaned manholes	Charter School driveway
		Jenkins Branch Lane
		Charleston Apartments
112221	Jetted sewer main	Arlington Avenue
12/7/21	Jetted sewer line	Fontana Road
12/8/21	Jetted sewer line	Fontana Road
12/9/21	Jetted sewer line	Fontana Road
12/14/21	Jetted sewer line	Arlington Avenue
	Jetted sewer line	River Street
12/20/21	Repair sewer service line	Alleyway on Blackhill

IV. Notification

This report has been made available by advertising in the Smoky Mountain Times and on the Town of Bryson City's website www.brysoncitync.gov. A copy may also be picked up at the Bryson City Town Hall Monday through Friday between 8:00 a.m.-5:00 p.m.

V. Certification

I certify under the 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.

Regina Mathis
Town Manager-Regina Mathis

7/26/22
Date

Dale Wike
Wastewater Plant ORC-Environmental Inc./Dale Wike

7/26/22
Date

Travis McCall
Collection System Back-up ORC-Travis McCall

7/26/22
Date