

# 2019 Annual Wastewater Performance Report

## TOWN OF MARSHVILLE

est. 1877

### REPORT TOPICS

- **Annual Reporting Requirements**
- **Collection Systems Management**
- **System Performance**
- **Protect Your Home From Grease**
- **System History**
- **Collection System Facility Details**
- **To Report Service Issues**
- **Availability & Certification**



Whether it's a major construction project or a home improvement project, such as building a deck, installing a swimming pool or planting a tree, we advise customers to call NC 811 (just dial 811) to prevent digging into utility lines.

### ANNUAL REPORTING REQUIREMENTS

The Town of Marshville Public Utilities Department is pleased to present its 2019 Annual Wastewater Performance Report. This report covers the calendar year of January 1, 2019 to December 31, 2019. The report summarizes the performance of the sewer collection system and identifies the extent to which any terms of its permit, federal laws, state laws, regulations or rules related to the protection of water quality have been violated.

In accordance with House Bill 1160 of the Clean Water Act of 1999, the owner and/or operator of any wastewater treatment works or wastewater collection system that treats or collects primarily domestic or municipal wastes must provide an annual report that summarizes the treatment works or collection system performance over a 12 month period to its users or customers and to the North Carolina Department of Environment and Natural Resources.

**TOWN OF MARSHVILLE**  
**118 East Union Street**  
**Marshville, North Carolina 28103**  
**Phone: 704.624.2515**  
**Fax: 704.624.0175**

**PLEASE VISIT US @ [WWW.MARSHVILLE.ORG](http://WWW.MARSHVILLE.ORG)**

## COLLECTION SYSTEM MANAGEMENT

The town's underground water utilities consist of a maze of pipes, valves, and pumps. The system that distributes the water to the customers is called the distribution system, and the system that collects the wastewater and transports it to wastewater treatment facilities is called the collection system, better known as the sewer system. Marshville's collection system is made up of 27 miles of pipeline, 452 manholes, and 4 pumping stations. Public Works is responsible for the day-to-day operations of the system.

Every year our staff must clean and inspect a minimum of 10% of the gravity lines in the system. The majority of sewer calls answered by staff are for blockages in customer service lines as a result of grease or obstructions in the lines. The Town is proud to report that the Marshville Collection System did not have any permit violations or Sanitary Sewer Overflows that reached surface water during 2019, but did have 1 spill over 1,000 gallons.

Whenever possible, gravity is by far the most cost-effective way to transport water. However, pump stations are necessary to keep the wastewater flowing to the wastewater treatment facilities located in Union County and Anson County. Pump stations are very expensive to operate, and failures can result in sanitary sewer overflows and fines. Repairs on the north side of the system have been completed.

---

## SYSTEM PERFORMANCE

---

- 1 sanitary sewer overflows occurred > 1,000 gallons
- Public Works responded to approximately 39 sewer system issues caused by roots, grease build-up, pipe failure, and debris in the lines
- No permit violations occurred during 2019
- Marshville has completed the State funded sewer rehabilitation project

# PROTECT YOUR HOME AND ENVIRONMENT FROM DAMAGING FATS, OILS, AND GREASE

Food waste and grease are often washed into the plumbing system through kitchen sinks. The grease sticks to the insides of sewer pipes (both in your home and in the streets), and over time it can build up to the point that it blocks the entire pipe. We see this more often than anything else.

Commercial additives, including detergents, that claim to dissolve grease may only pass grease down the line and cause problems in other areas.

## The results of blocked pipes can be:

- Raw sewage overflowing in your home or your neighbor's home resulting in expensive and very unpleasant cleanups
- Raw sewage overflowing into parks, yards, and streets
- Potential human contact with disease-causing organisms
- Higher sewer bills for all customers

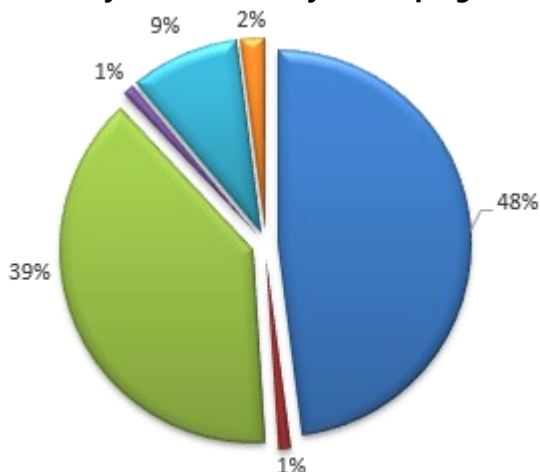


Please report sanitary sewer overflows immediately by calling Town Hall at 704-624-2515.

## SYSTEM HISTORY

The original Marshville sanitary sewer system was constructed circa 1923. An Imhoff Tank located in the northeast portion of town, near the present day connection with Union County, treated the wastewater collected in this original system that was constructed with vitrified clay pipe (VCP) sewer mains and brick and mortar manholes. Marshville eventually constructed its own Wastewater Treatment Facility in 1969. This plant was located southeast of the Town Limits and consisted of two waste stabilization lagoons with chlorination prior to discharge. The discharge point was along Lick Branch, tributary to the Yadkin River. The lagoons

### Summary of Collection System Piping Material



Clay Concrete PVC HDPE Rehab Iron

covered 7.2 acres total and the facility was permitted for 0.18 million gallons per day discharge capacity. This plant was operated with a clear compliance history through the early 1980's when it was abandoned due to participation in a 201 Regionalization project with Union County and other Union County municipalities. From the 1980's until 2007, the Town relied solely on Union County for wastewater treatment and disposal. In 2007, a project to discharge wastewater to the Anson County sewer system was completed. Currently, approximately 180,000 gallons per day is conveyed to Anson County, and approximately 120,000 GPD is conveyed to Union County. The lagoons are still utilized as equalization basins for all of the flow produced in the southern basin of the Marshville collection system.

# BEWARE OF THE Grease Goblin

**LAST SEEN:**  
Loitering in Sinks and Drains

**WANTED FOR:**  
Causing Sewer Overflows

**DID YOU KNOW...**

Most sanitary sewer backups occur between your home and the town's sewer main?

You can help prevent a costly and unsanitary overflow by following a few simple steps:

DO

- ✓ Scrape excess grease in a container and dispose of it in the garbage.
- ✓ Place food scraps in waste containers or garbage bags for disposal with solid wastes, or start a compost pile; promote use of scraping ware prior to washing.
- ✓ Place a wastebasket in the bathroom to dispose of solid wastes. Disposable diapers, condoms, and personal hygiene products do not belong in the sewer system.
- ✓ Promote the concept of "3 R's": Reduce, Reuse, Recycle.

DO NOT

- ✗ Pour grease, fats, and oils from cooking down the drain.
- ✗ Use the toilet as a wastebasket.
- ✗ Use the sewer as a means of disposing food scraps.

The Grease Goblin and associated materials are provided by the N.C. Division of Pollution Prevention and Environmental Assistance (DPPEA) located in the Department of Environment and Natural Resources (DENR).



## COLLECTION SYSTEM FACILITY DETAILS

**PERMIT NO:** WQCS00344  
**PERMITEE:** TOWN OF MARSHVILLE  
**PERMIT TYPE:** COLLECTION SYSTEM MANAGEMENT  
AND OPERATION  
**REGION:** MOORESVILLE  
**COUNTY:** UNION  
**LAST PERMIT  
ISSUANCE:** AUGUST 1, 2014  
**PERMIT EXPIRA-  
TION DATE:** JULY 31, 2022  
**PERMIT STATUS:** ACTIVE  
**TREATMENT  
FACILITIES:** CITY OF MONROE WWTF (NC0024333)  
ANSON COUNTY WWTF (NC0041408)  
**ORC:** JASON MULLIS  
**CURRENT # OF  
CUSTOMERS:** 945

### TOILET LEAK DETECTION TABLETS



**ARE AVAILABLE AT TOWN HALL**

## ATTENTION TO ALL CUSTOMERS

Please make sure that all utility account information is up-to-date. It is important that we have accurate phone numbers on record so that you may be reached in times of service interruption or if your utility account is at risk of becoming delinquent. Update forms are available at Town Hall or on our website at [www.marshville.org](http://www.marshville.org).

## TO REPORT SERVICE ISSUES

At any point in time that you notice damage to your sewer cleanout in the yard (e.g. missing cap, hit it with a mower, etc.), or if you notice sewer coming out of the top of the cleanout or a man-hole in town, please notify us as quickly as possible at one of the numbers below. Sewer overflows can be hazardous to your health and should be reported immediately. Cleanouts left uncovered can allow for obstructions in sewer lines causing backups into your home and can allow for excess flow into our sewer system. We appreciate your cooperation in keeping our system clean.

### PLEASE CALL FOR SEWER RELATED ISSUES

#### TOWN HALL

(Between 8:00 am & 5:00 pm)

**704-624-2515**

#### UNION COUNTY SHERIFF'S OFFICE

#### EMERGENCIES ONLY

(Between 5:00 pm & 8:00 am)

**704-289-1591**

## AVAILABILITY AND CERTIFICATION

This report is available at Town Hall or on the town's Website ([www.marshville.org](http://www.marshville.org)). If you would like a copy of the report, please contact Town Hall at 704.624.2515.

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 users or customers of the named system and that those users have been notified of its availability.

Frank Deese, Town of Marshville