

2025



TOWN OF
DANVILLE

WASTEWATER

[ANNUAL SUMMATION]

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Water Pollution Control Facility

Overview

The Town of Danville Wastewater Department currently operates a Class III, 2.0 MGD Major Treatment Facility consisting of an influent flow meter, mechanical fine screening, four (4) oxidation ditches, five (5) secondary clarifiers, fine bubble post aeration, an effluent flow meter, and an ultraviolet light disinfection unit. Sludge handling facilities include a sludge gravity thickener, two (2) aerobic digesters, and a sludge belt filter press. The final sludge is sent to a landfill for disposal. It is an Extended Aeration Activated Sludge type treatment system capable of treating peak flows up to 7.8 million gallons per day. The facility is equipped with an Automatic Back-up Generator which is sized to power the entire facility during power outages.

24-hour monitoring consists of a GE IFIX SCADA system with remote access. Alarms are generated via email and cellular means. The facility is also monitored by closed circuit televising with remote access.

Preventive maintenance and equipment repairs are managed and documented with computer-aided programs. All equipment information about identification and maintenance required is listed in General Equipment Maintenance Manuals on two different bookshelves in the control building.

Most required testing is performed at the onsite laboratory with other metals and sludge testing being done by outside laboratories. Composite sampling is done automatically by time paced samplers which collect samples over a 24-hour period on days testing is required.

Operational data generated by lab testing and flow metering from various processes is managed by computer aided programs. The programs store data and provide the ability to generate reports and calculations automatically.

The various aspects of the plant operations are broken down into specific Standard Operating Procedures with exhibits to aid in understanding the process.

Wastewater Department

System Operation Specialist

Tony Kirkpatrick- Superintendent (Operator in Responsible Charge) maintains a Wastewater Operator Class III Municipal Certificate, a Wastewater Operator Class B Industrial Certificate, and Water & Sewer Construction Certificate.

Wayne Hearing- Assistant Superintendent and Operator/Collections maintains a Class 1 Collection System and Water and Sanitary Construction Inspection Certificate.

Darren Collier- Pretreatment Coordinator/ Laboratory Manager maintains a Wastewater Operator Class III Municipal Certificate, a Wastewater Class A Industrial Certificate, Registered Pretreatment Coordinator Certificate, and a Laboratory Excellence Certification.

Chris Tidd- Operator/Collections maintains a Water and Sanitary Construction Inspection Certificate.

Zach Mead- Operator/Collections

Cindie Lawson- Office Coordinator for WWTP, WTP, DPW, Storm Water

2025 WWTP Summation

- 560.8 Million Gallons of Flow Treated
- 1.536 Million Gallons Average Flow Per Day
- 12,960 Gallons of Hyper Ion Used to Treat Phosphorus
- 33.93 Inches of Rainfall
- 2025 Plant Capacity = 77%
- 98% BOD5 Removal
- 97% Suspended Solids Removal
- 99% Nitrogen Ammonia Removal
- 80% Phosphorus Removal
- 1972 Samples Taken in 2025

2026 Priority Projects

- Parkridge Lift Station Decommissioning
- County Home Lift Station Upgrade
- Eastern Annexation Design for Industrial Growth
- Smoke Testing