

# UTILITY REPORT

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**SEPTEMBER 2024**

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**Town of Bowling Green, VA**

**Authored by:**

**Inboden Environmental Services, Inc.**



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# WATER

## Water Quality

The treatment facilities and distribution system maintained compliance with all required sampling.

### Bacteriological Analysis:

Location	Date	Result
VDOT	9/4/24	Absent
Bowling Green Healthcare	9/4/24	Absent

## Water Treatment

The water treatment plant met the Town's water demand with a total monthly well yield of 4.635 MG for an average daily production rate of 0.154 MGD.

### Operational Notes:

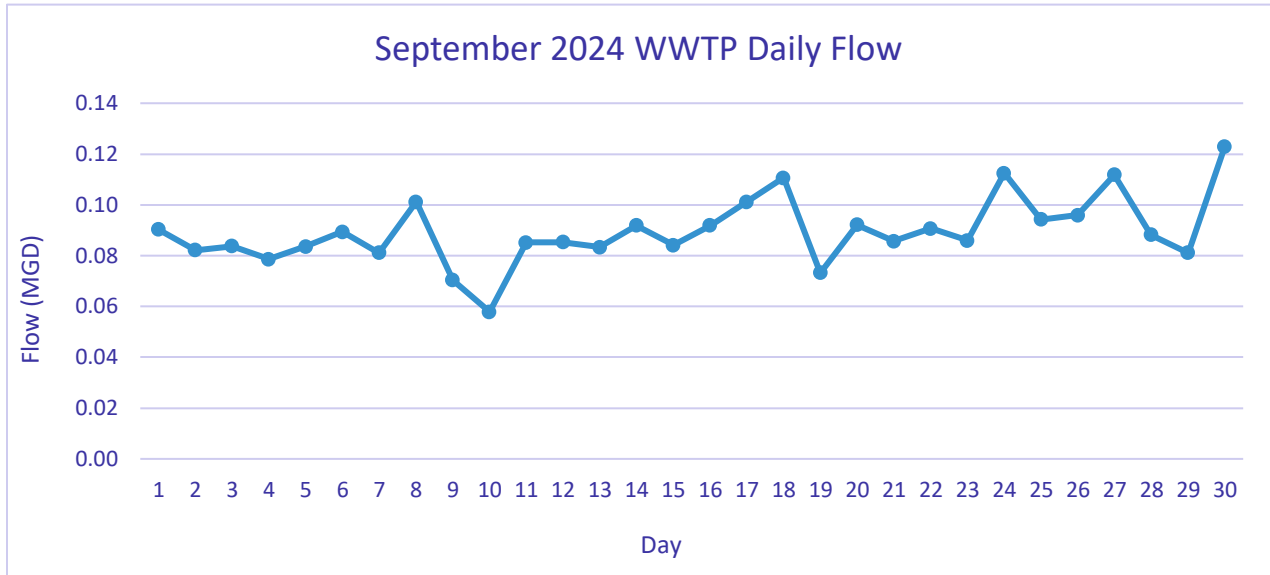
Treatment plants were visited, and an analysis of water quality was performed every day. Testing Instruments were calibrated at least twice a week.

- Effectively dosing sodium hypochlorite for proper disinfection for drinking water.
- All P/A samples collected and passed.
- Monthly report sent to VDH successfully.
- Notification received from VDH regarding increased "non-compliance" sampling to include Well 1A along with 4 and 5.

# WASTEWATER

## Wastewater Treatment

The wastewater treatment plant had an average daily flow of 0.090 MGD for a total monthly effluent discharge of 2.686 MG.

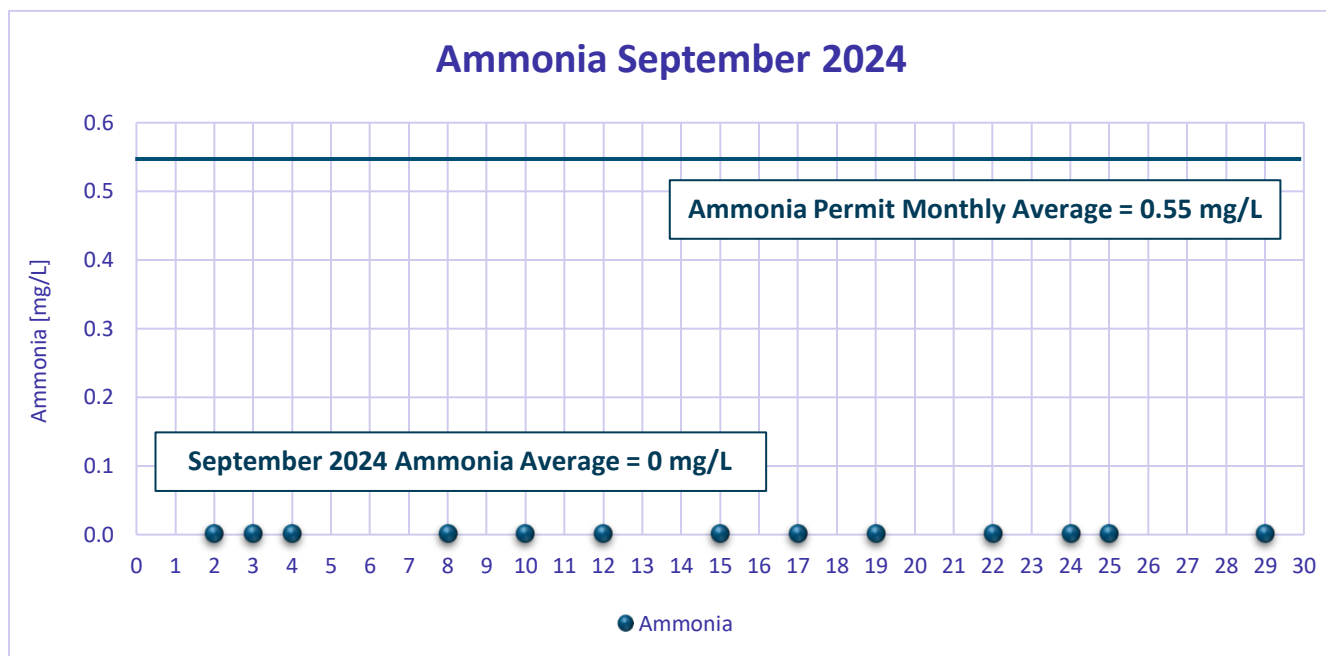
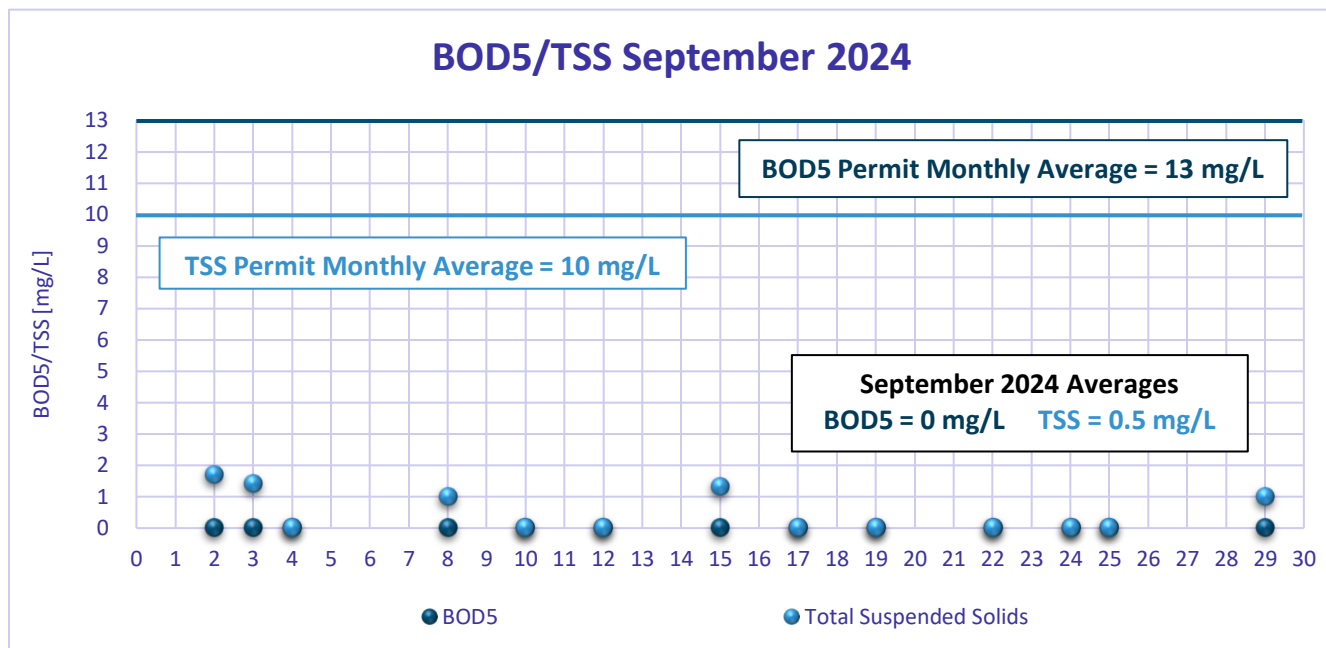


## Operational Notes:

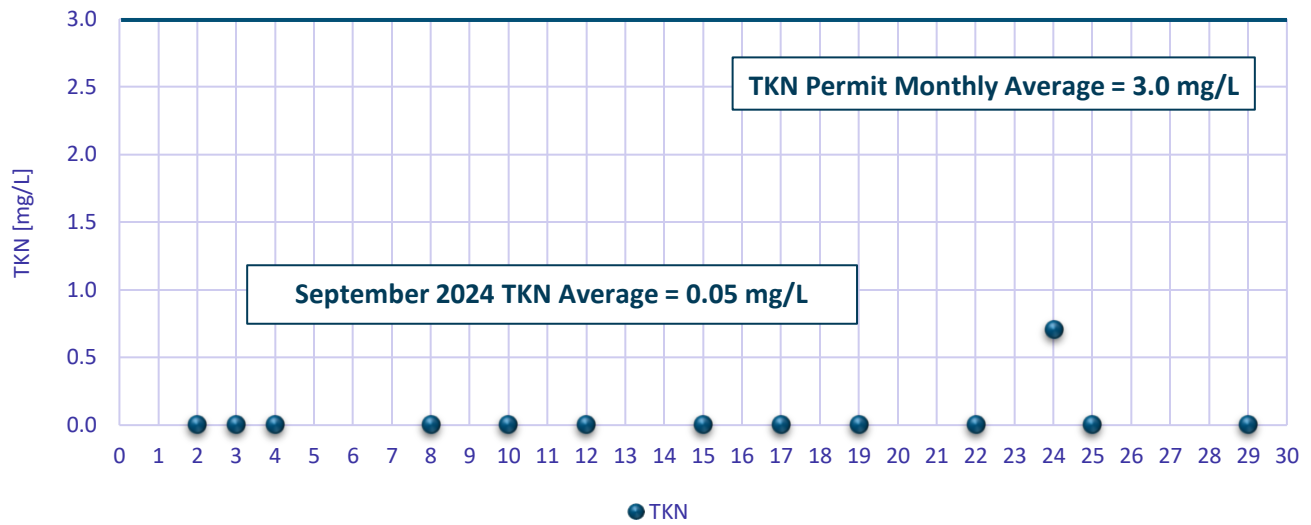
Testing instruments were calibrated every day. BOD, TSS, Ammonia, TKN, and E. Coli samples were collected in compliance with the WWTP permit.

- Managing the solids has shown even further improvement; the settling characteristics of the floc is yielding a great looking supernatant.
- All parameters being sampled in the final effluent have dropped to or below QLs indicating a much healthier biomass generation.
- IES and Bowling Green staff inspected the lift stations for grease to ascertain which pump stations are the worst.
- IES is quoting a small blower and diffuser setup for Herritage Pines and Meadows lift stations.
- Digester blowers have been put on a timer to facilitate lower nutrient numbers in the digester supernatant.
- Comminutor had broken down and Bowling Green maintenance ordered a new one. It is set to be installed on August 28<sup>th</sup> by the Bowling Green electrical contractor.
- An electrical contractor quoted VFDs for the motors that are able to be controlled by the SC4500 controller which will conserve energy and extend the life of the equipment.
- The DO control project is in its final stages; had to wait on additional hardware to finish.
- IES identified which influent channel(s) need to be cleaned out. Bowling Green Maintenance is scheduling a day for channel cleaning.

## Sample Results:



## TKN September 2024



## E. coli September 2024

