

# UTILITY REPORT

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**MARCH 2025**

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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
030 - Bowling Green Health Care	3/19/2025	Absent
060 - VDOT	3/19/2025	Absent

## Water Treatment

The water treatment plant met the Town's water demand with a total monthly well yield of 4.882 MG for an average daily production rate of 0.157 MGD.

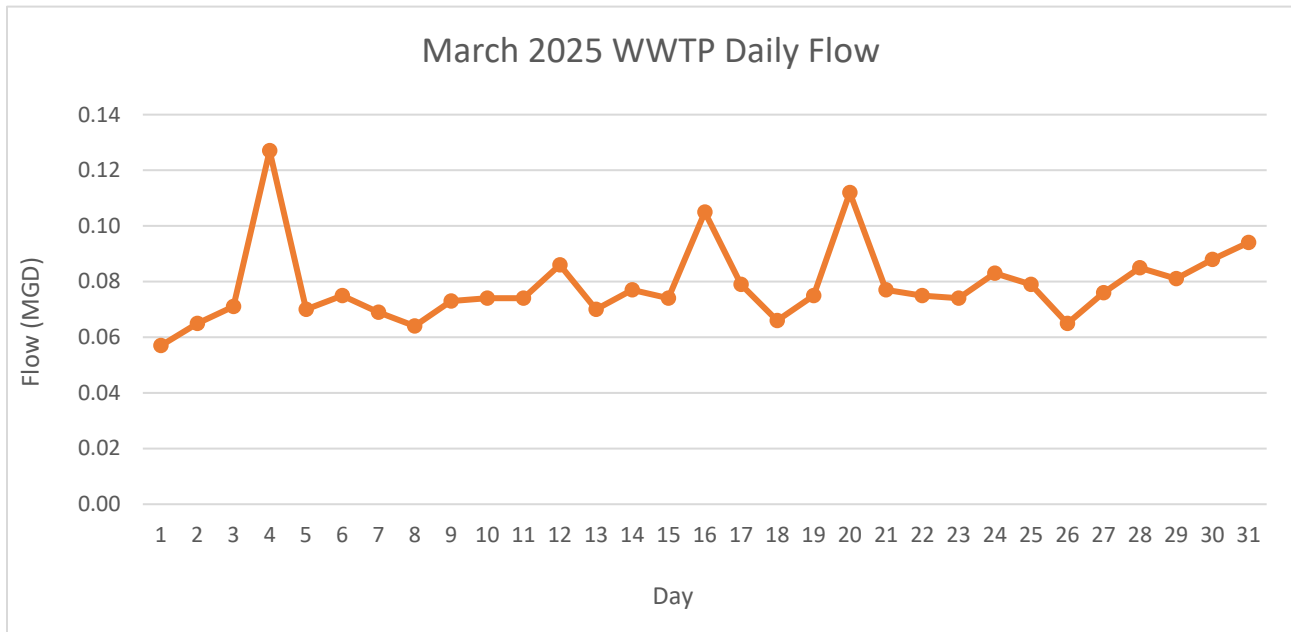
### Operational Notes:

- Effectively dosing sodium hypochlorite for proper disinfection for drinking water.
- All P/A samples collected and passed.
- Monthly report sent to VDH successfully.
- VDH inspected all three wells and elevated water storage tanks.
- IES cleaned well vats at all well houses.

# WASTEWATER

## Wastewater Treatment

The wastewater treatment plant had an average daily flow of 0.079 MGD for a total monthly effluent discharge of 2.440 MG.

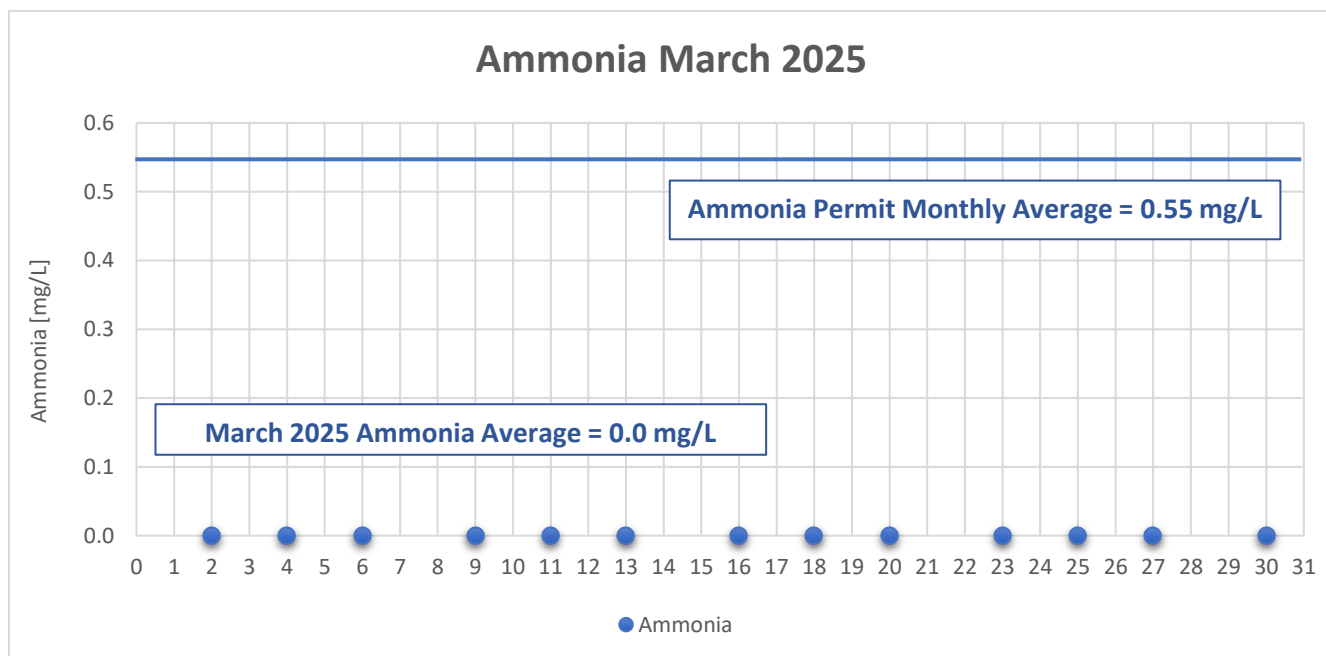
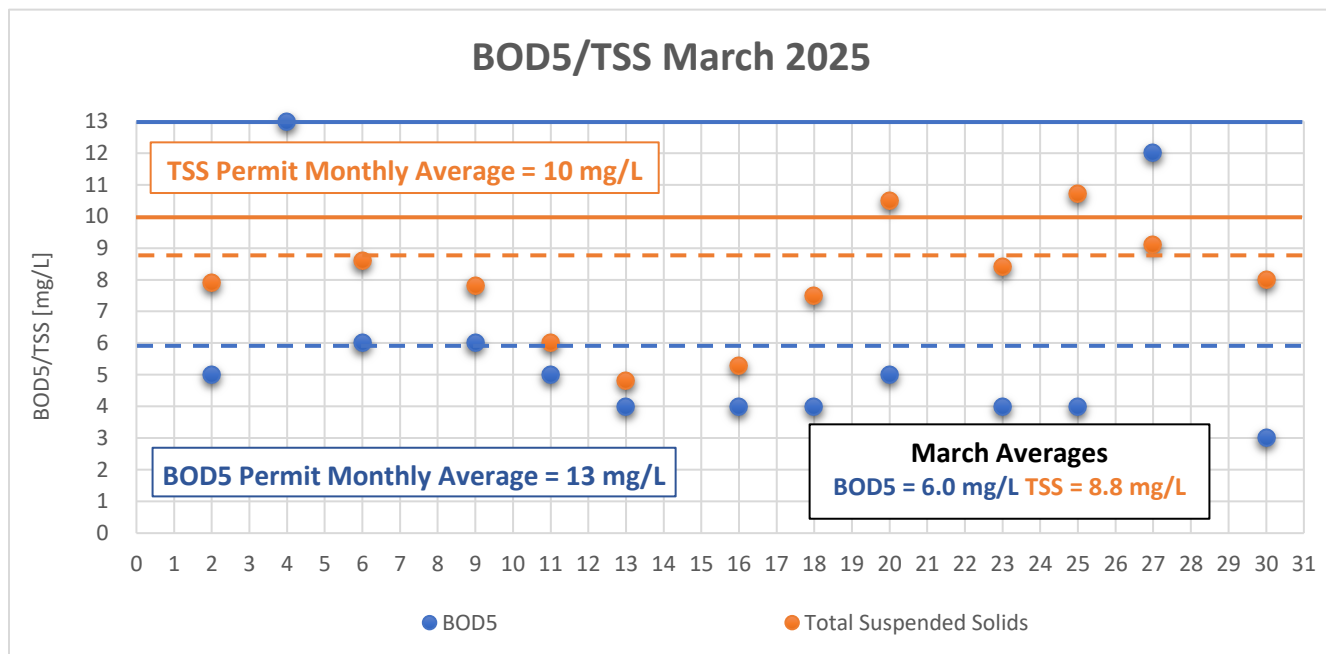


## Operational Notes:

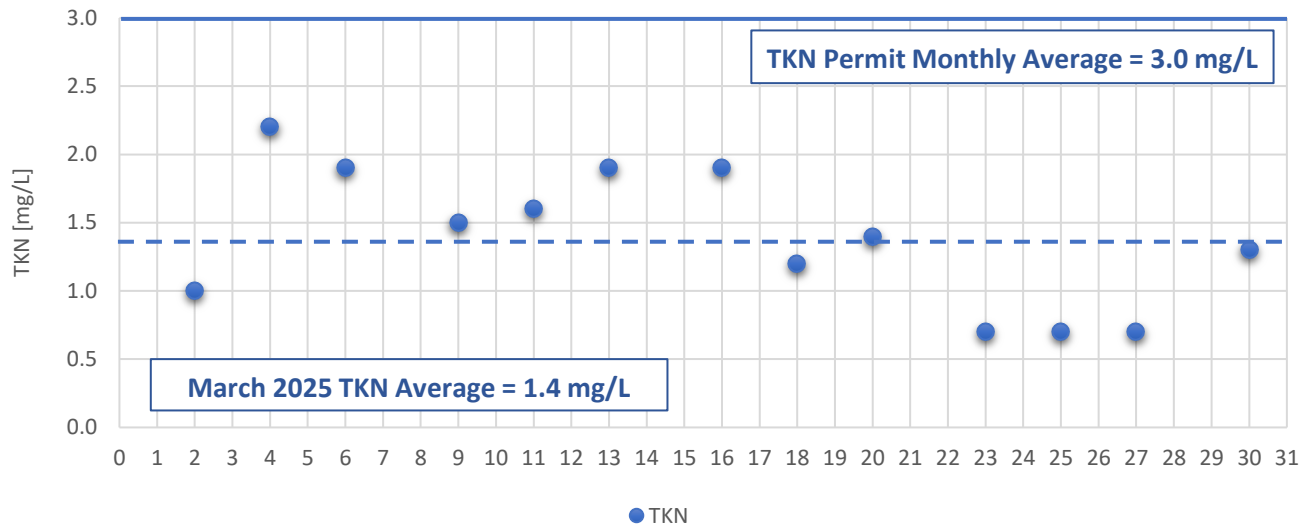
BOD, TSS, Ammonia, TKN, and E. Coli samples were collected in compliance with the WWTP permit.

- Tilling the drying bed was not productive. Recommended rehabbing at least one filter to better understand the condition of the media and the underdrain.
- Alternating clarifiers in and out of service to manage sludge blankets.
- Town of Bowling Green's maintenance contractor caulked and resurfaced Clarifier #2.
- Town of Bowling Green contracted a septic service to haul several loads of sewage daily from the collection system to the wastewater plant
- IES performed preventative maintenance on equipment.

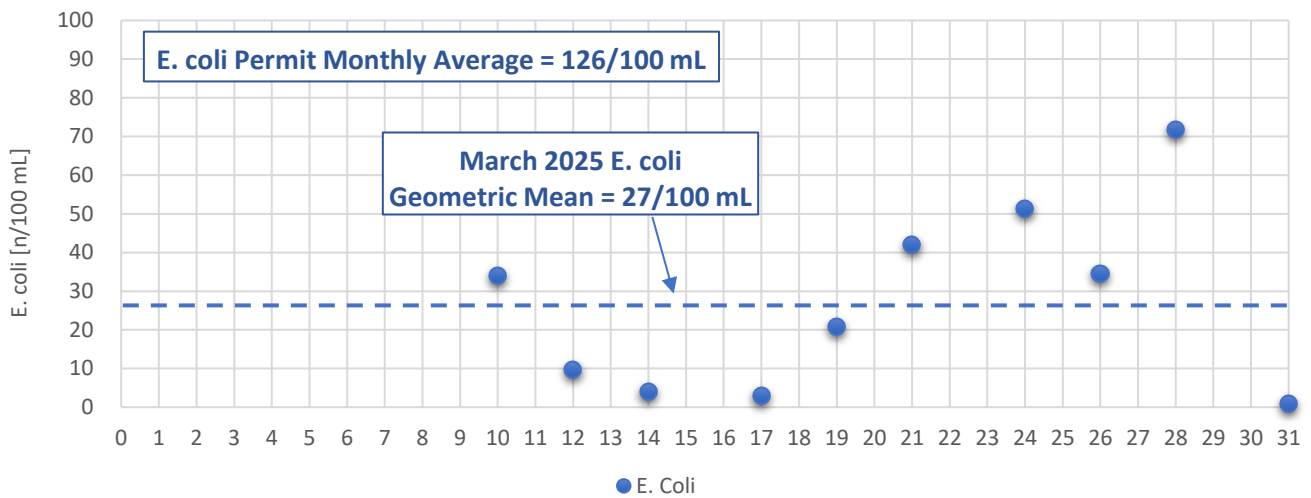
## Sample Results:



### TKN March 2025



### E. coli March 2025



# Glossary

Bacteria	E.coli and/or Total Coliform
BOD5	5-day Biochemical Oxygen Demand
CBOD	Carbonaceous Biochemical Oxygen Demand
cfu	colony forming unit
CIP	Capital Improvement Plan or Cast/cleaned-in-place
Cl	Chloride Ion
Cl2	Chlorine
CMF	Continuous Membrane Filtration?
D.O.	Dissolved Oxygen
F/M ratio	Food to Microorganism ratio
FOG	Fats, Oil and Grease
GST	Ground Storage Tank
HWTP	Harmony Water Treatment Plant
I&I	Infiltration and Inflow
Inorganic Nitrogen	Nitrate + Nitrite
LS	Lift Station
mg/L	Milligrams per Liter
MGD	Million Gallons Per Day
mL	Milliliters
MLSS	Mixed Liquor Suspended Solids
MLVSS	Mixed Liquor Volatile Suspended Solids
MPN	Most Probable Number -bacteriological well sample
MW	Monitoring Well
N/N	Nitrate/Nitrite
Organic Nitrogen	TKN
P/A	Presence/Absence- bacteriological samples for drinking water
PFAS	polyfluoroalkyl substances
PLC	Programmable Logic Controller
POE	Point of Entry
RAS	Return Activated Sludge
SCADA	Supervisory Control and Data Acquisition
STEP	Septic Tank Effluent Pump
TKN	Total Kjeldahl Nitrogen
TN	Total Nitrogen
TP	Total Phosphorous
TR-6	Copper sequestering chemical for wastewater
TSS	Total Suspended Solids
UV	Ultraviolet Light
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant