

UTILITY REPORT



MARCH 2026

Town of Bowling Green, VA

Authored by:

Inboden Environmental Services, Inc.



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	3/19/2026	Absent
060 – VDOT	3/19/2026	Absent

Water Treatment

The water treatment plant met the Town’s water demand with a total monthly well yield of 4.084 MG for an average daily production rate of 0.131 MGD.

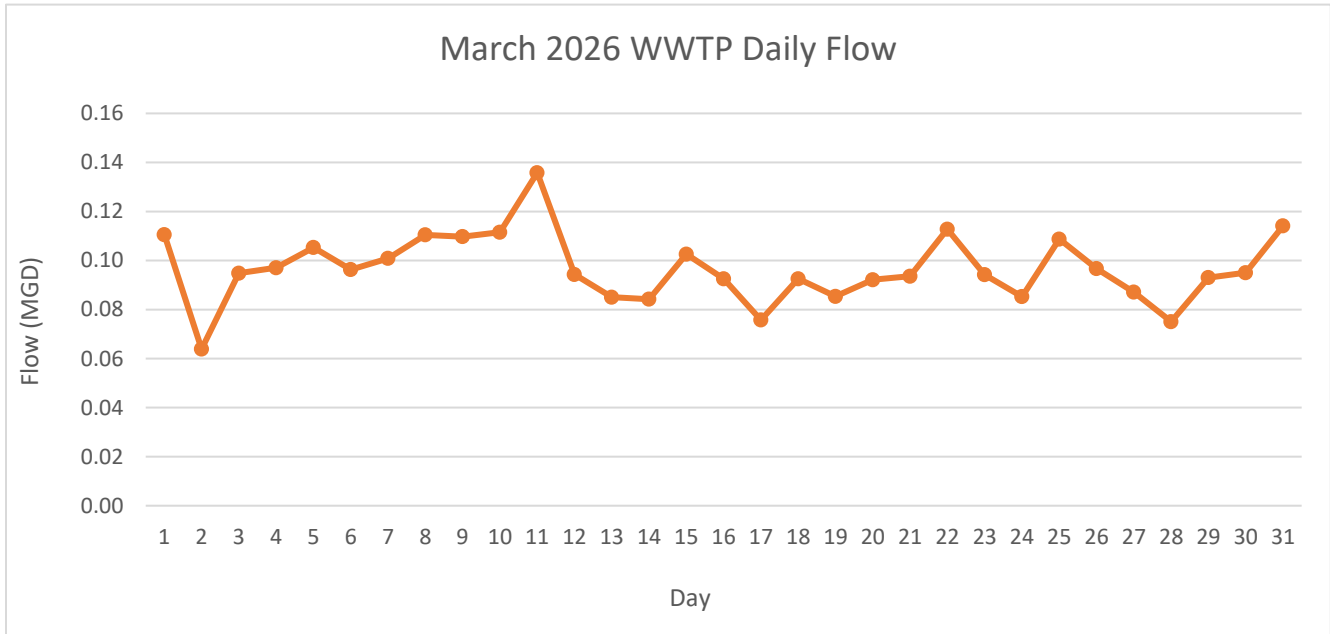
Operational Notes:

- Continuing to disinfect the water per state requirements.
- All state required samples were collected and reported.
- Kop Kit replaced on chemical dosing pump at Well 4.

WASTEWATER

Wastewater Treatment

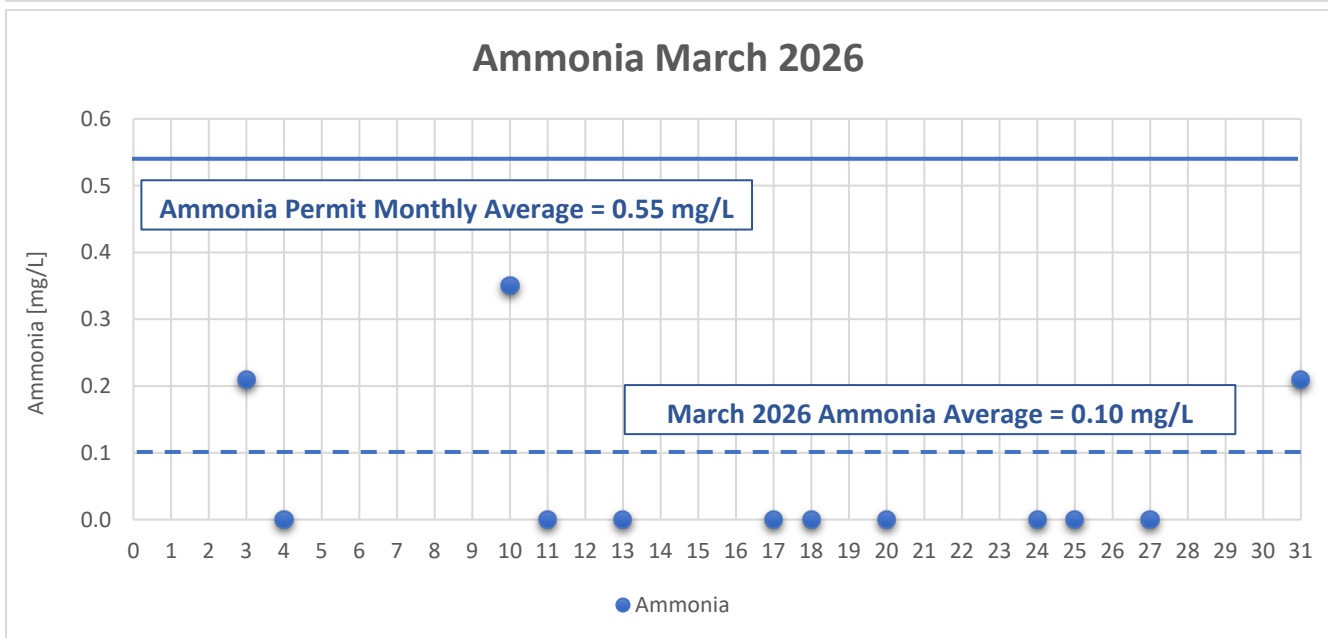
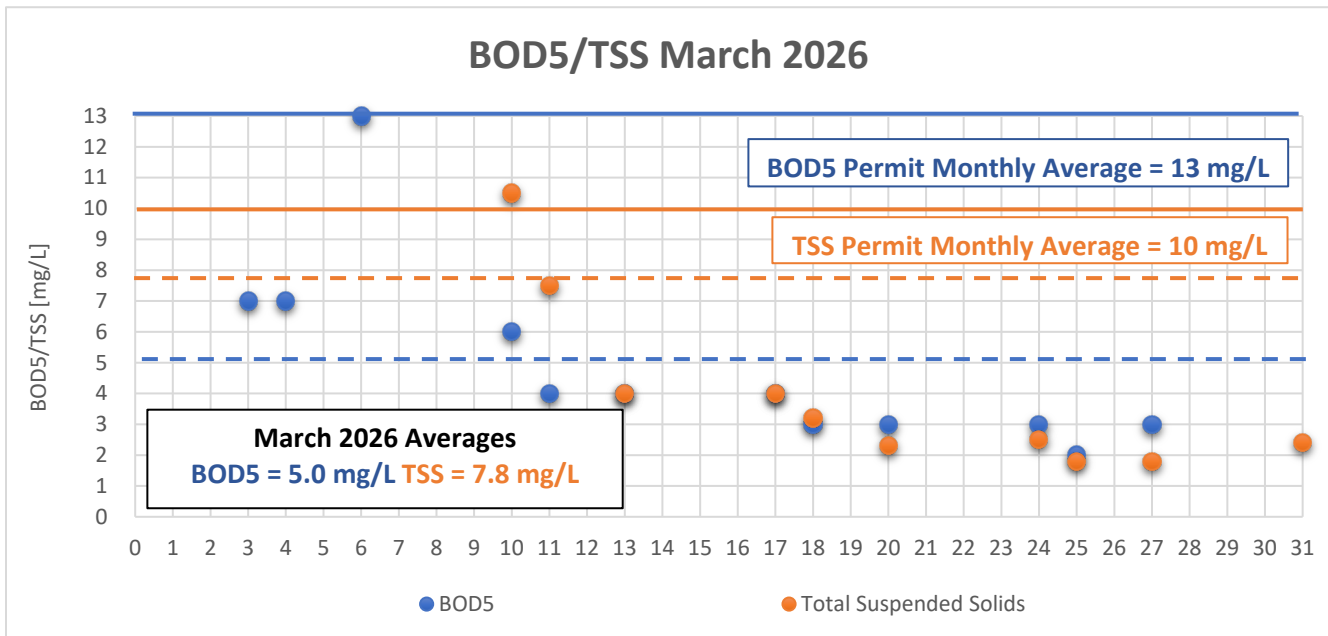
The wastewater treatment plant had an average daily flow of 0.097 MGD for a total monthly effluent discharge of 2.997 MG.

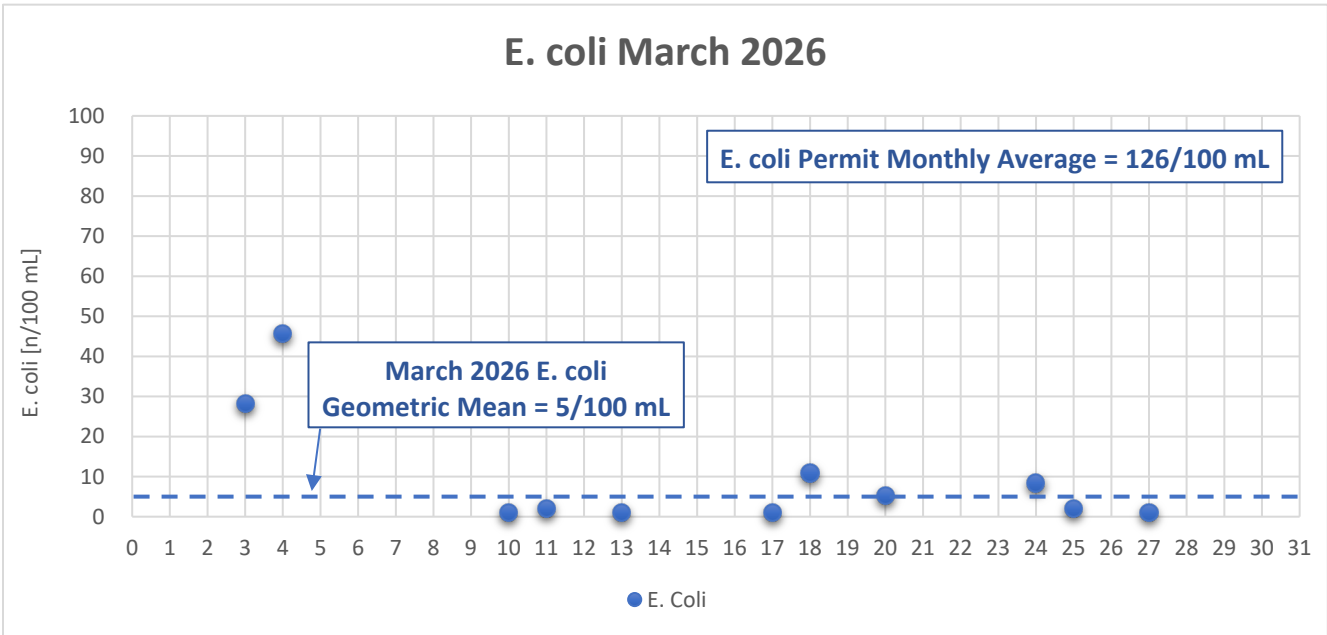
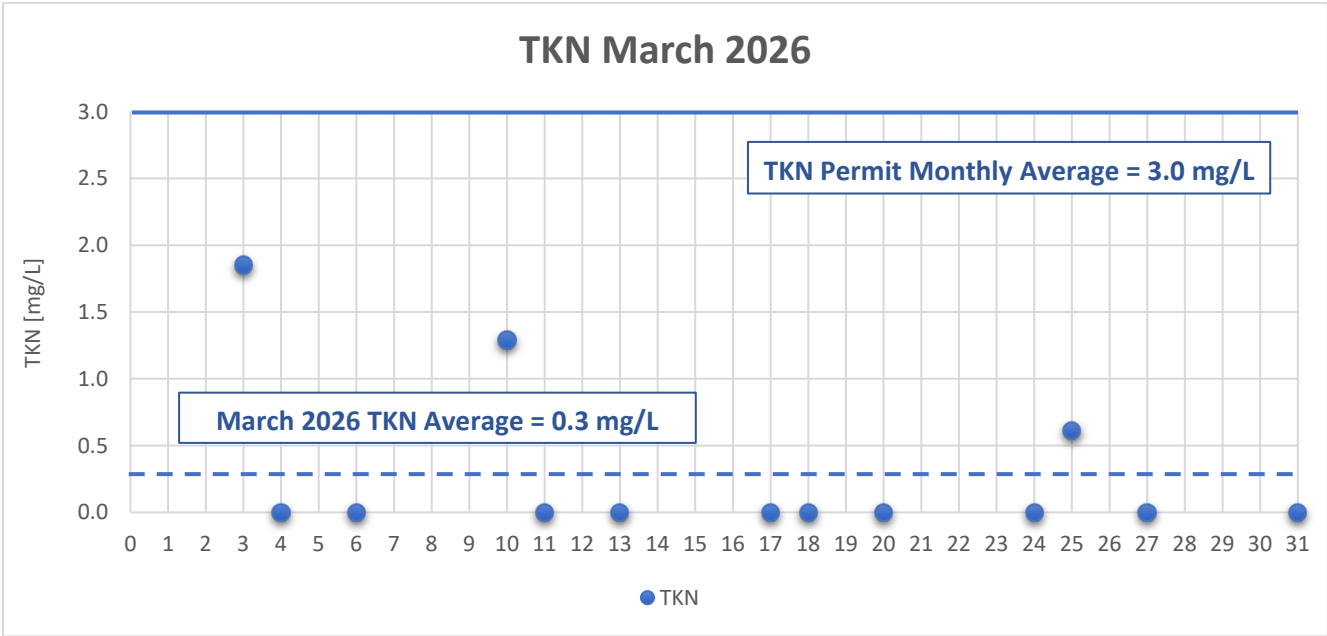


Operational Notes:

- Pillow bearing block has been identified as failed. IES will provide a quote for service on repair/replace.
- Sludge dewatering bag has been deployed along with chemical dosing and sludge transfer equipment. Since deployed, there has been no sludge hauled off-site.
- Receptacles added for 30 amp service near sand drying bed for electrical service of components that will dose the chemical and transfer the sludge.

Sample Results:





Exceedance Details:

- During the monitoring week of March 1–7, the weekly average Total Suspended Solids (TSS) concentration was 20.6 mg/L, which exceeded the permitted weekly average limit of 15 mg/L. During this time, a noticeable increase in filamentous organisms was observed during routine microscopic examination of the mixed liquor. In response, wasting was increased to reduce the filamentous population within the treatment system. Subsequent microscopic examinations indicate that filamentous organisms are no longer present, and treatment processes returned to normal operating conditions.

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
Cl ₂	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