

# UTILITY REPORT



**AUGUST 2025**

**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
P/A: 135 South Main	8/18/2025	Absent
P/A: 152 East Broaddus	8/18/2025	Absent
MPN: Well 1	8/18/2025	Total Coliform: <1 E. coli: <1
MPN: Well 4	8/18/2025	Total Coliform: <1 E. coli: <1
MPN: Well 5	8/18/2025	Total Coliform: <1 E. coli: <1

## Water Treatment

The water treatment plant met the Town's water demand with a total monthly well yield of 4.387 MG for an average daily production rate of 0.141 MGD.

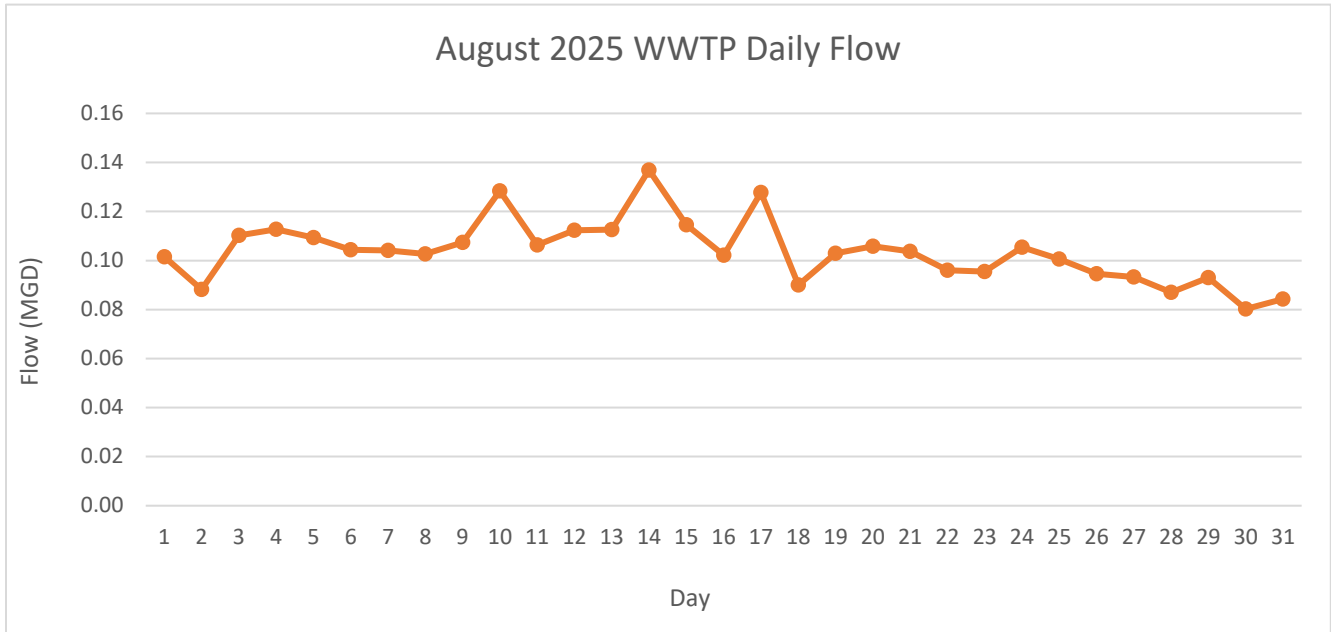
### Operational Notes:

- Bacteriological samples were all collected and passed.
- All chlorine residuals are being maintained within state required limits.
- Radiological samples were collected and taken to the lab for analysis.
- All well site required visits were completed.

# WASTEWATER

## Wastewater Treatment

The wastewater treatment plant had an average daily flow of 0.104 MGD for a total monthly effluent discharge of 3.214 MG.



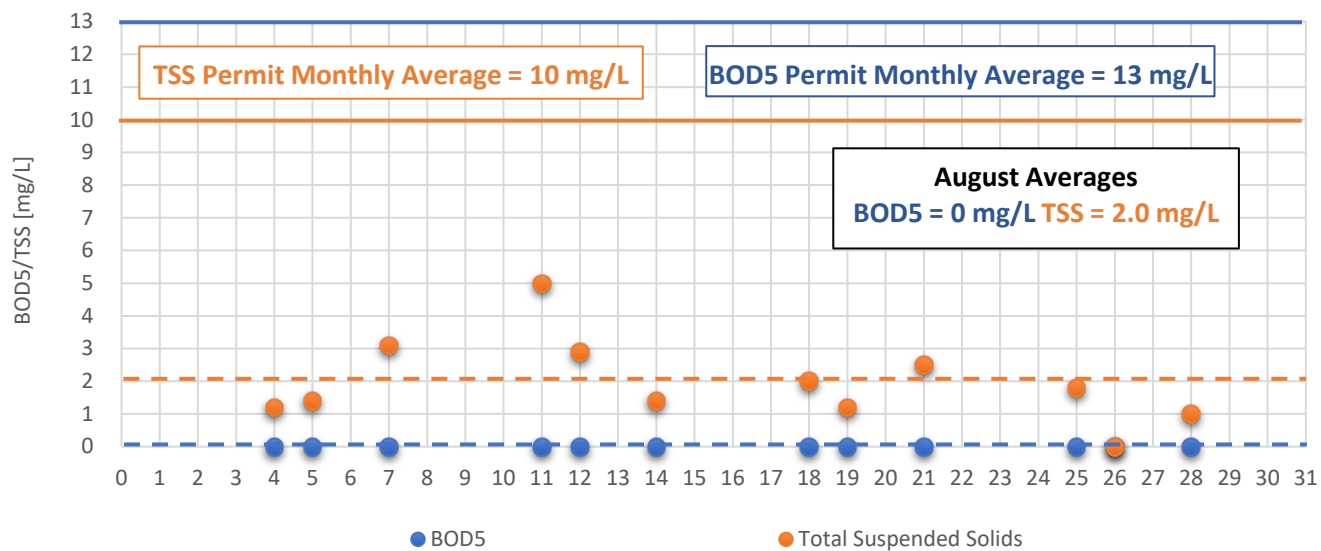
## Operational Notes:

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

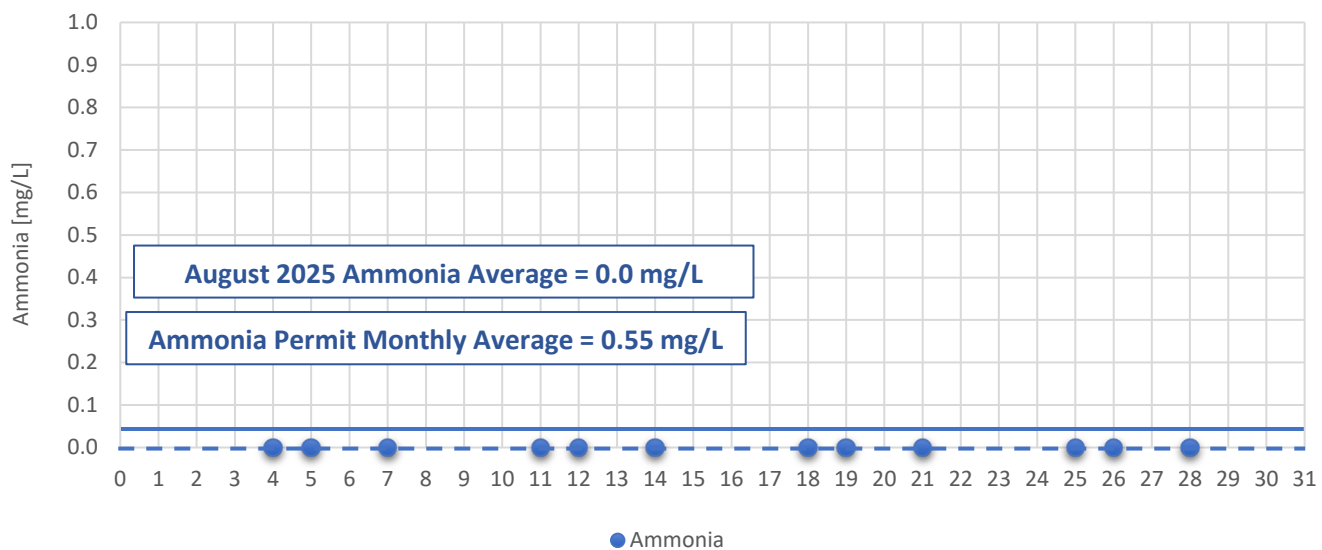
- Moonshot Missions on-site to look at the drying beds and discuss the need for a press and to refurbish the sand drying beds.
- All required compliance sampling was collected and reported, satisfying the permit.
- Requested a quote for replacing an impellar on a RAS pump due to under performance. Awaiting feedback.
- All preventative maintenance completed.

## Sample Results:

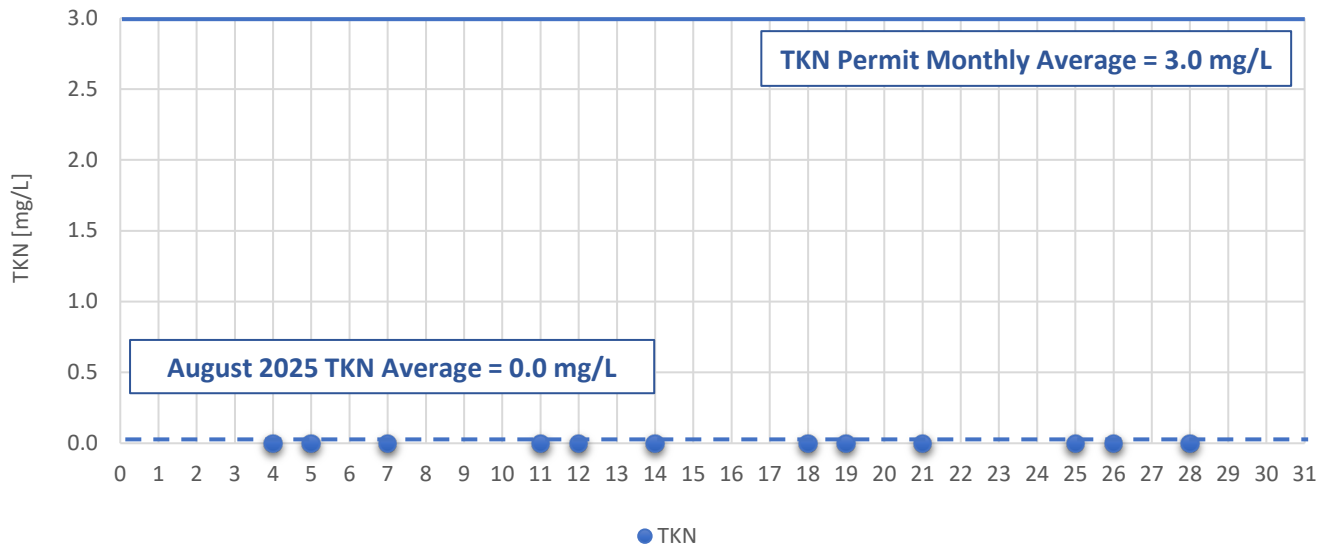
### BOD5/TSS August 2025



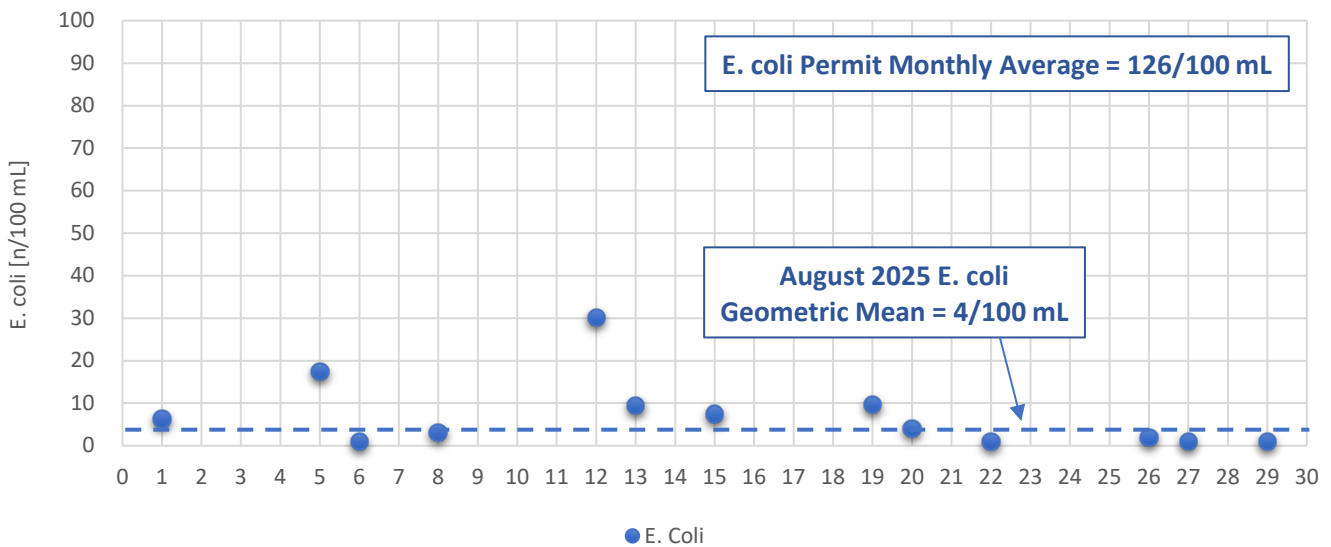
### Ammonia August 2025



### TKN August 2025



### E. coli August 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