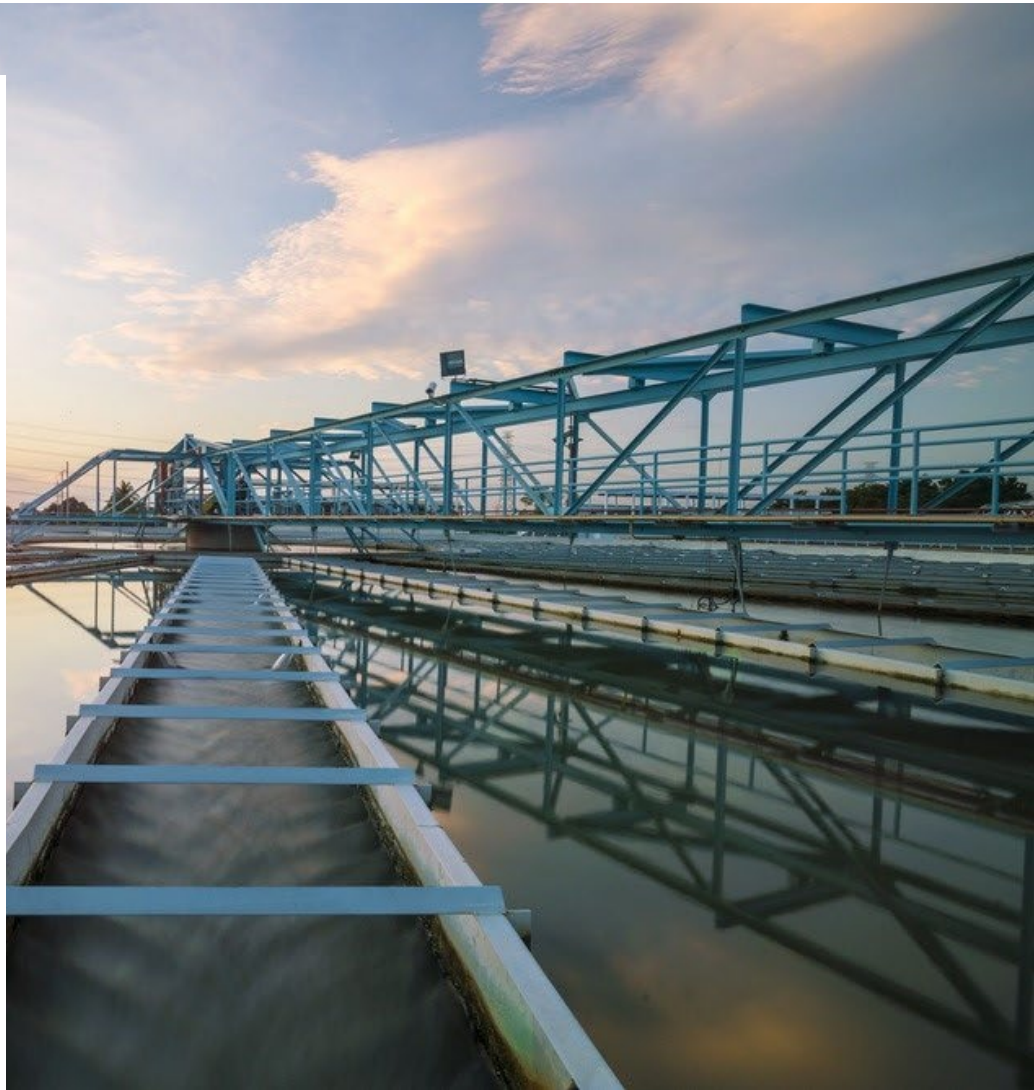


UTILITY REPORT



AUGUST 2025

**King George County
Service Authority**

**Authored by:
Inboden Environmental
Services, Inc.**



INTRODUCTION

This Utility Report provides information on operations, facility performance, equipment issues, and regulatory compliance for the month prior. Information includes items related to water facility productions and wastewater effluent discharge volumes, laboratory analytical data, operations notes, and compliance auditing.

WATER

Canterbury Subdivision – PWSID 6099085

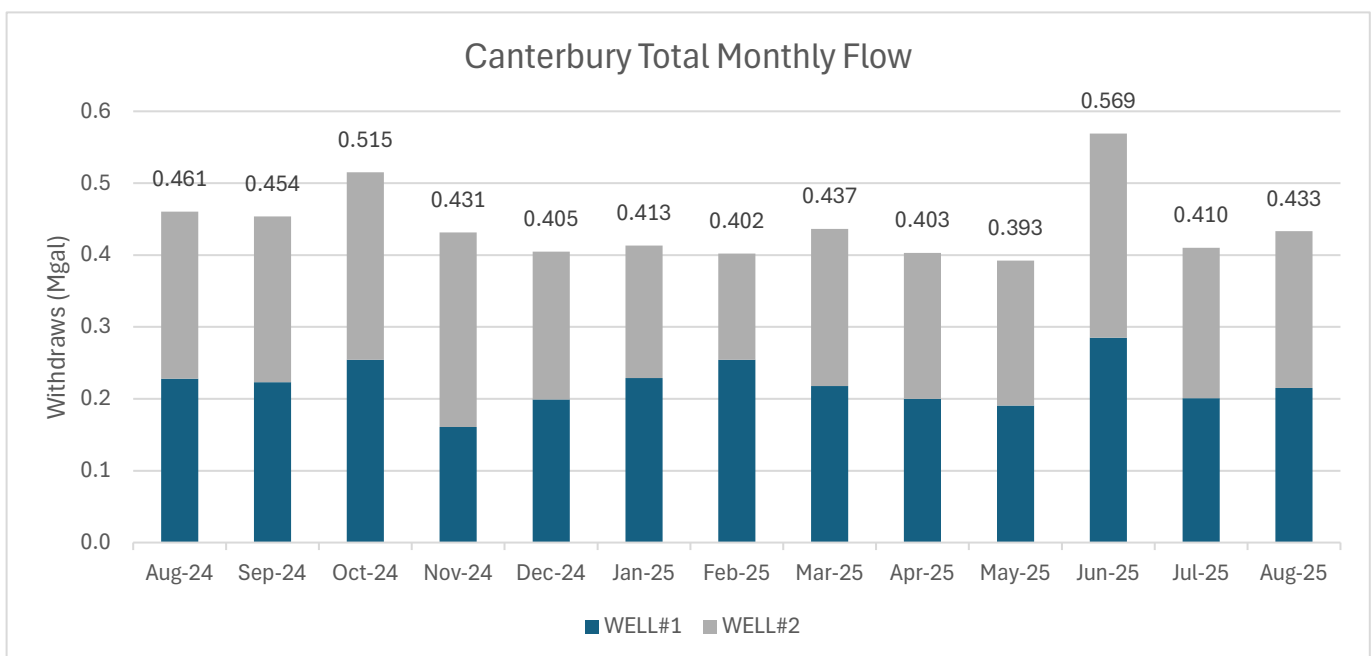
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
030	12135 Canterbury Ct.	8/12/2025	Absent

System Production:



Circle – PWSID 6099100

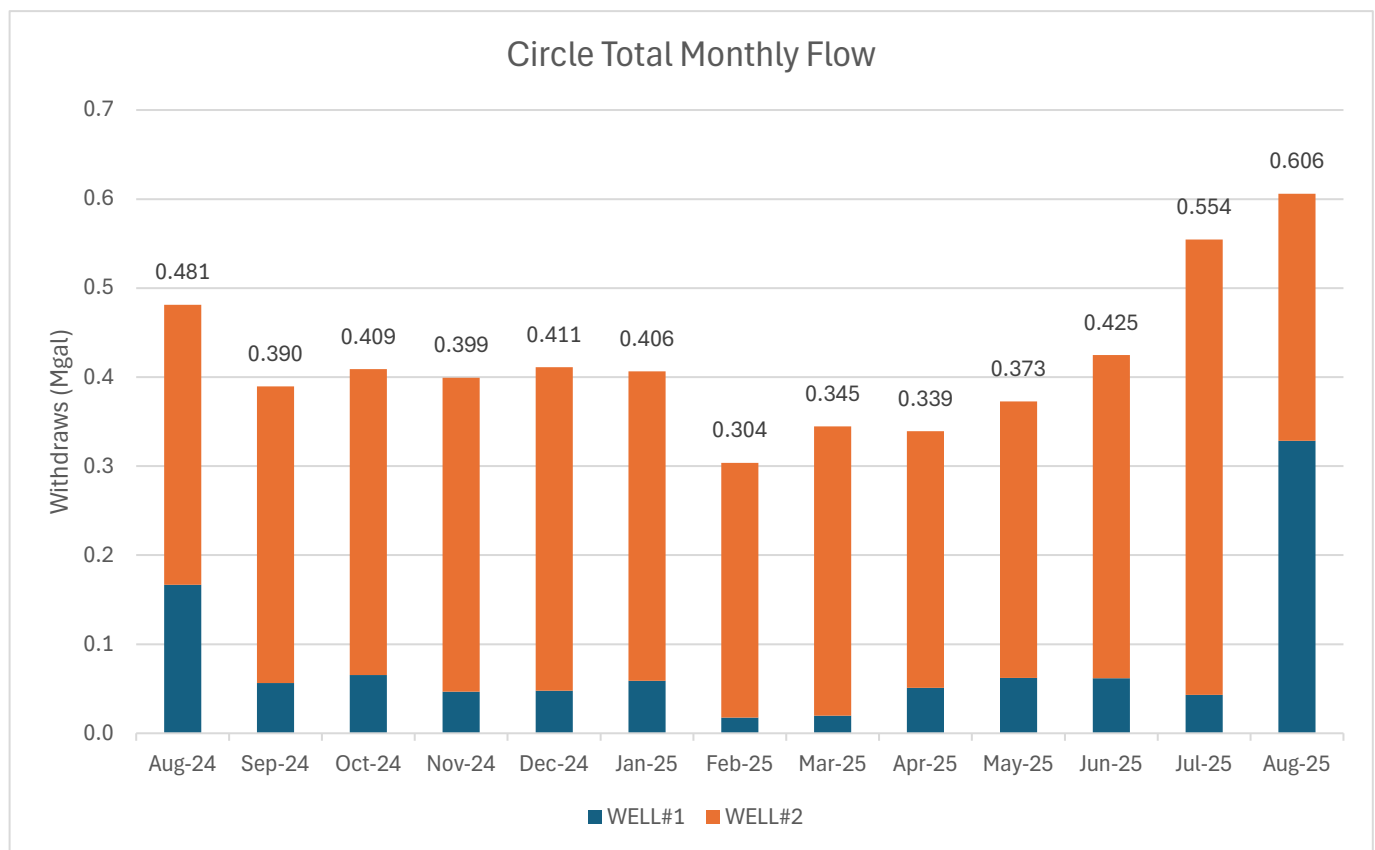
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
010	11393 Ridge Road	8/14/2025	Absent

System Production:



KGC Courthouse – PWSID 6099050

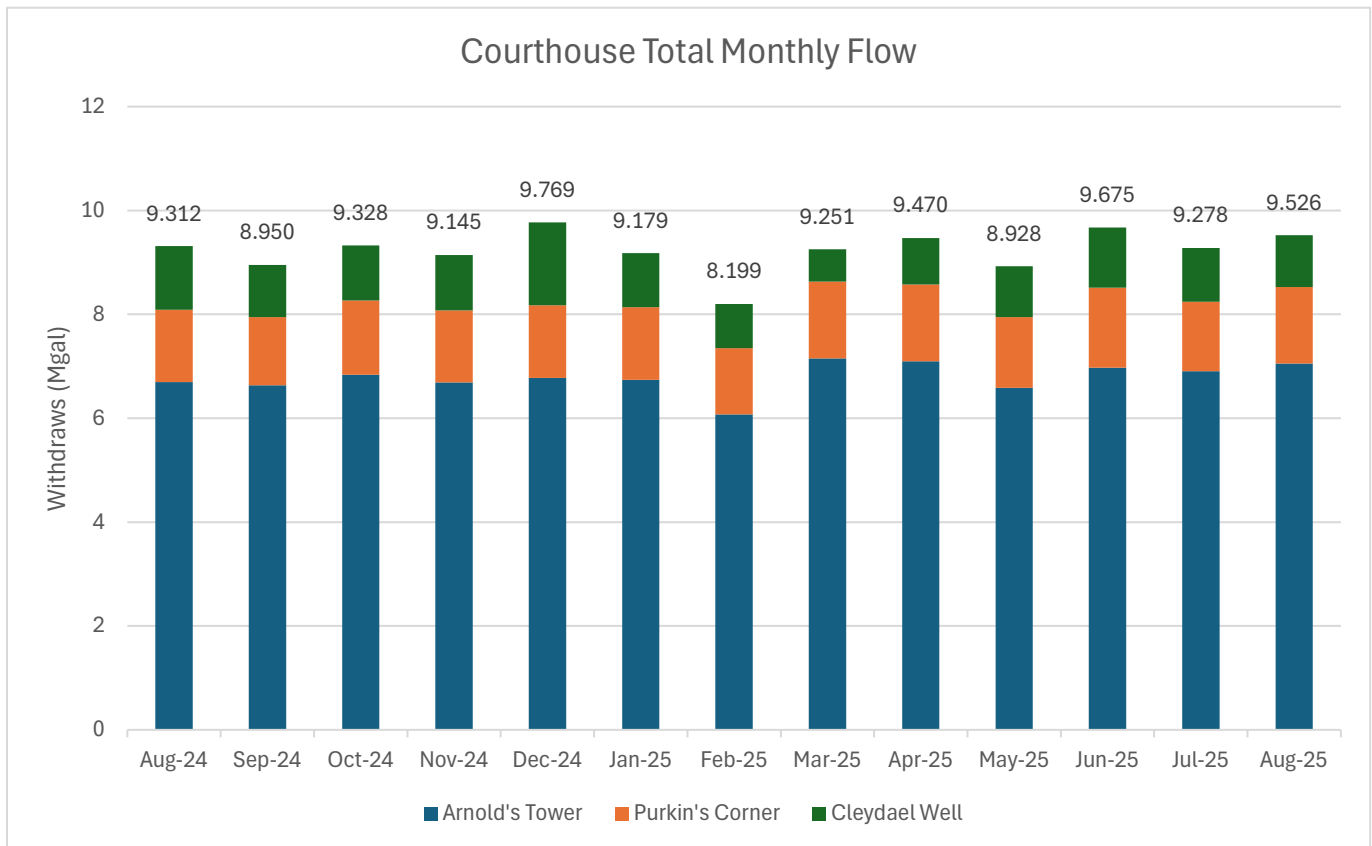
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
01	10459 Courthouse Drive	8/12/2025	Absent
09	7323 Jackson Drive	8/12/2025	Absent
05	12128 Cleydael Blvd.	8/14/2025	Absent
04	9333 Inaugural	8/14/2025	Absent
08	12382 Richard's Ride	8/14/2025	Absent

System Production:



Dahlgren – PWSID 6099295

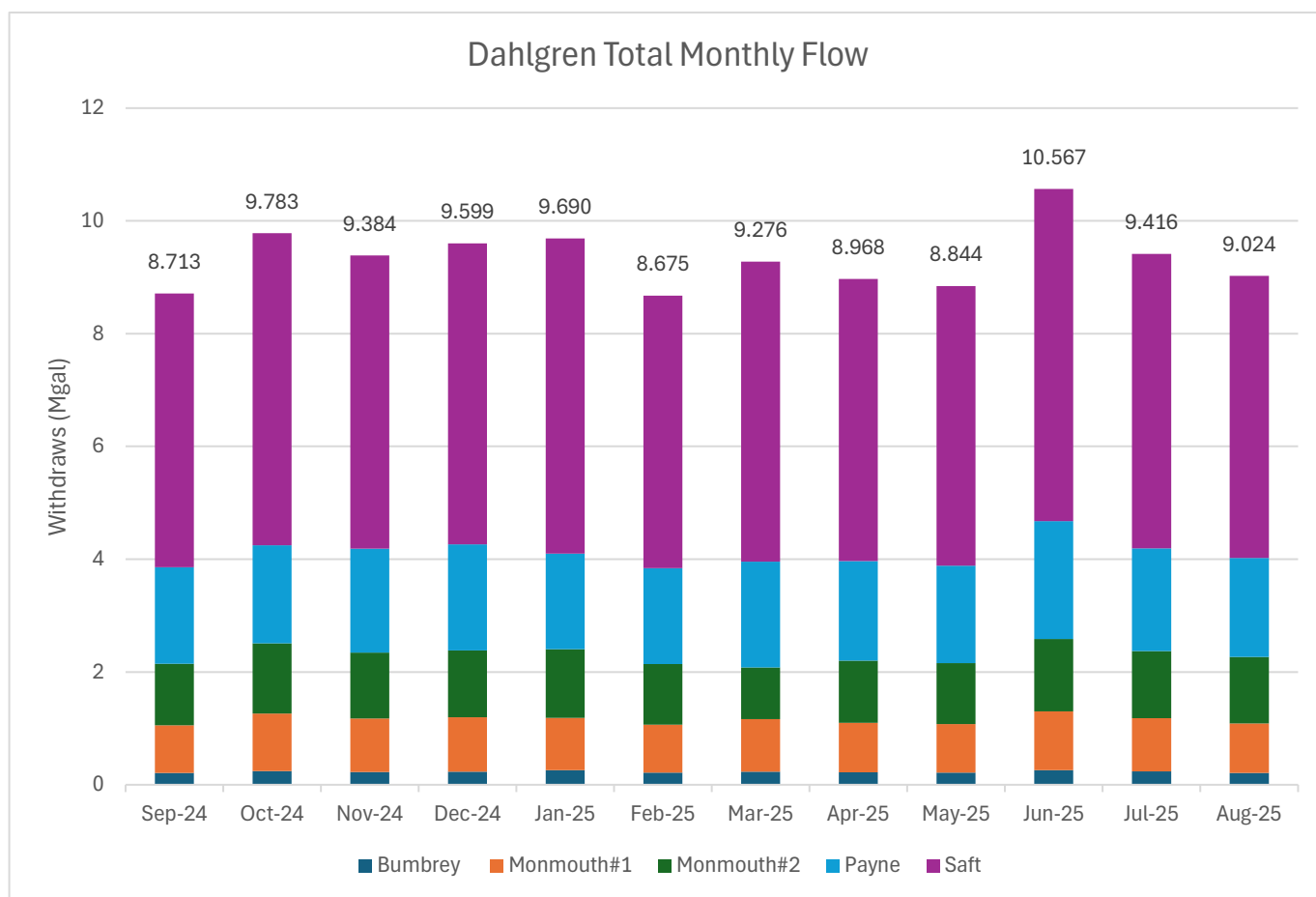
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
07	4378 Savannah St.	8/7/2025	Absent
06	4417 Danube Dr.	8/7/2025	Absent
05	5394 Gordon Dr.	8/14/2025	Absent

System Production:



Fairview Beach – PWSID 6099250

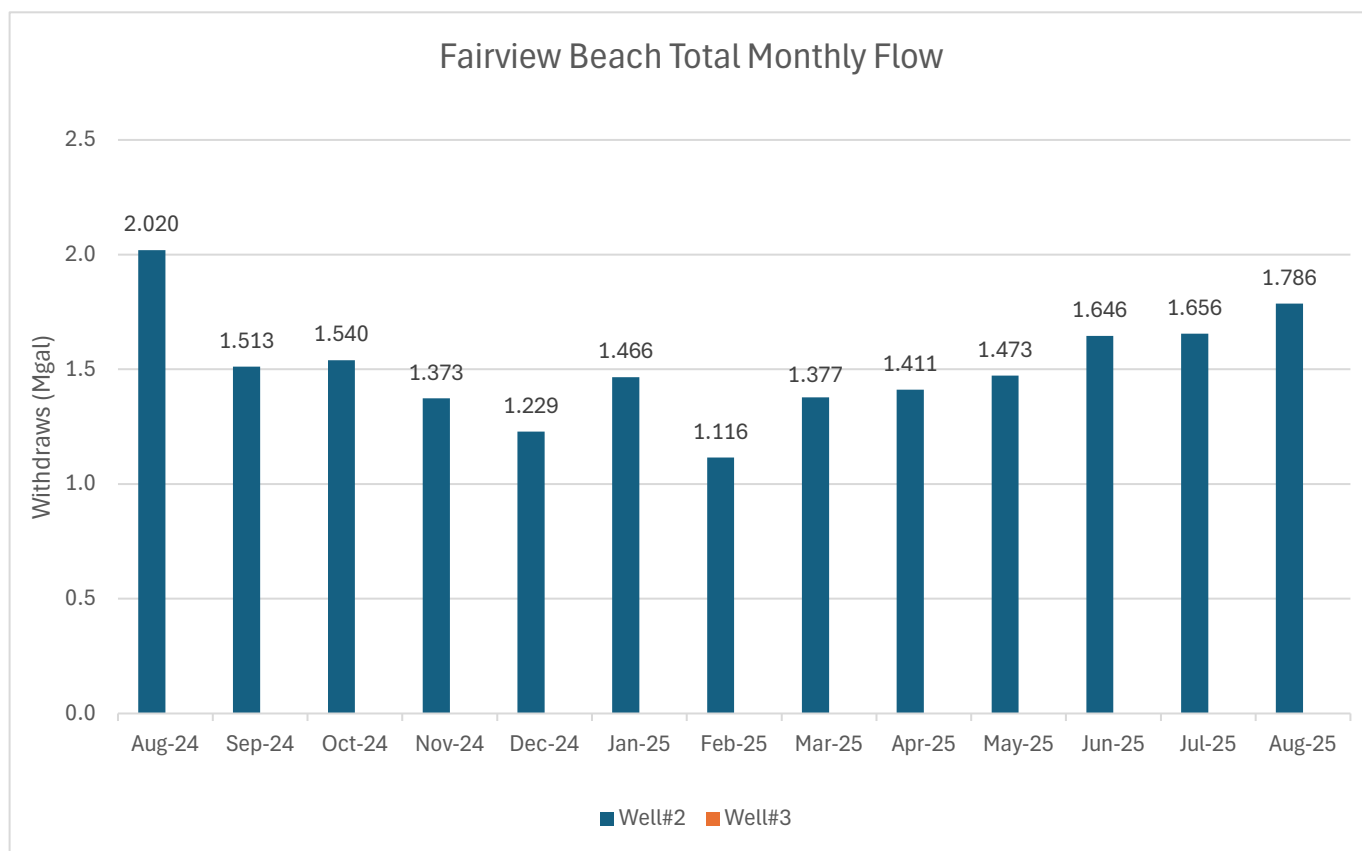
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
050	6023 Marine View Rd.	8/12/2025	Absent

System Production:



Hopyard Farm – PWSID 6099283

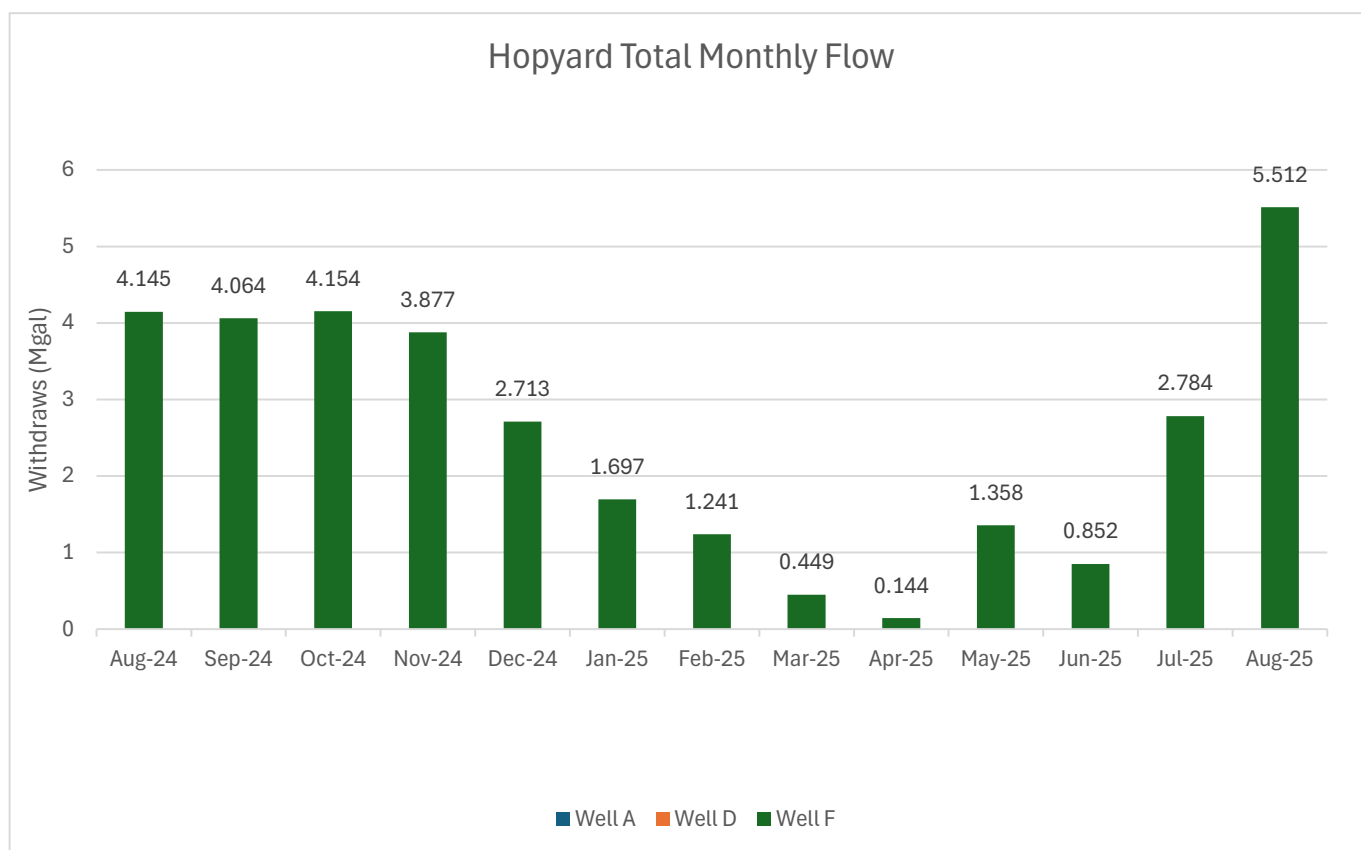
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
050	5217 Spinnaker Lane	8/7/2025	Absent
060	5276 Longbow Road	8/7/2025	Absent

System Production:



KGC School Board Office – PWSID 6099296

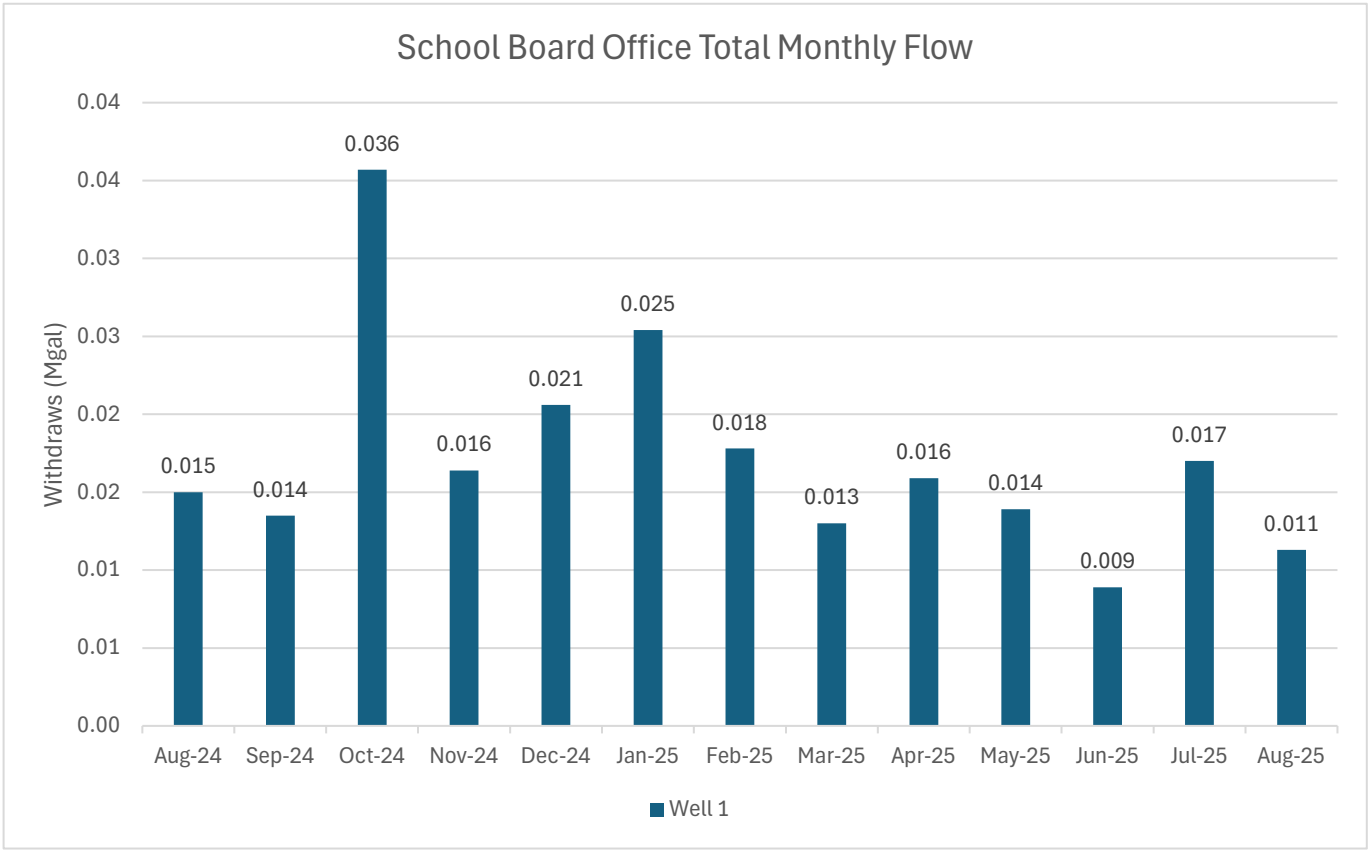
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
030	Old Art Room #10	8/7/2025	Absent

System Production:



Ninde's Store – PWSID 6099300

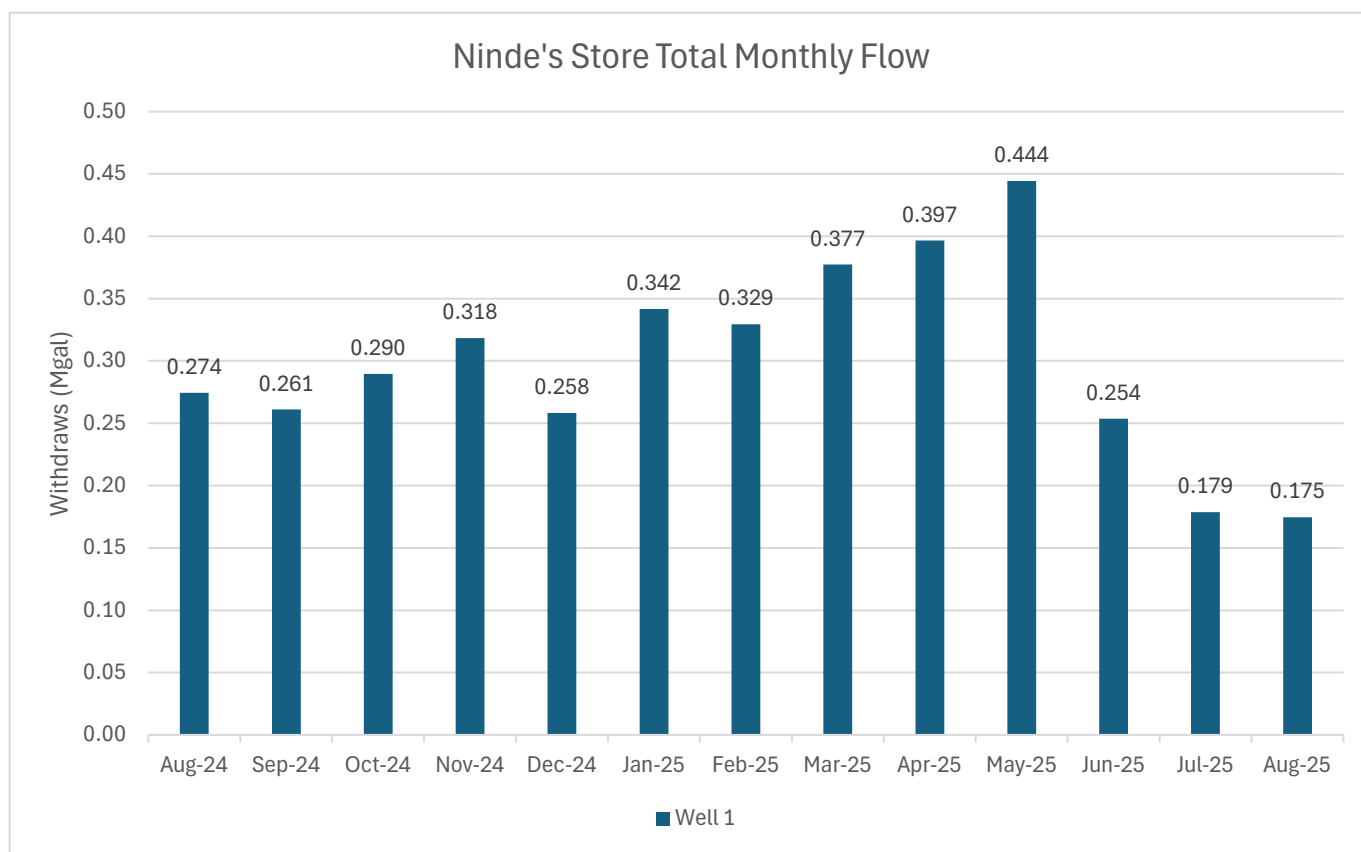
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
020	16156 Ridge Road	8/15/2025	Absent

System Production:



Oakland Park – PWSID 6099350

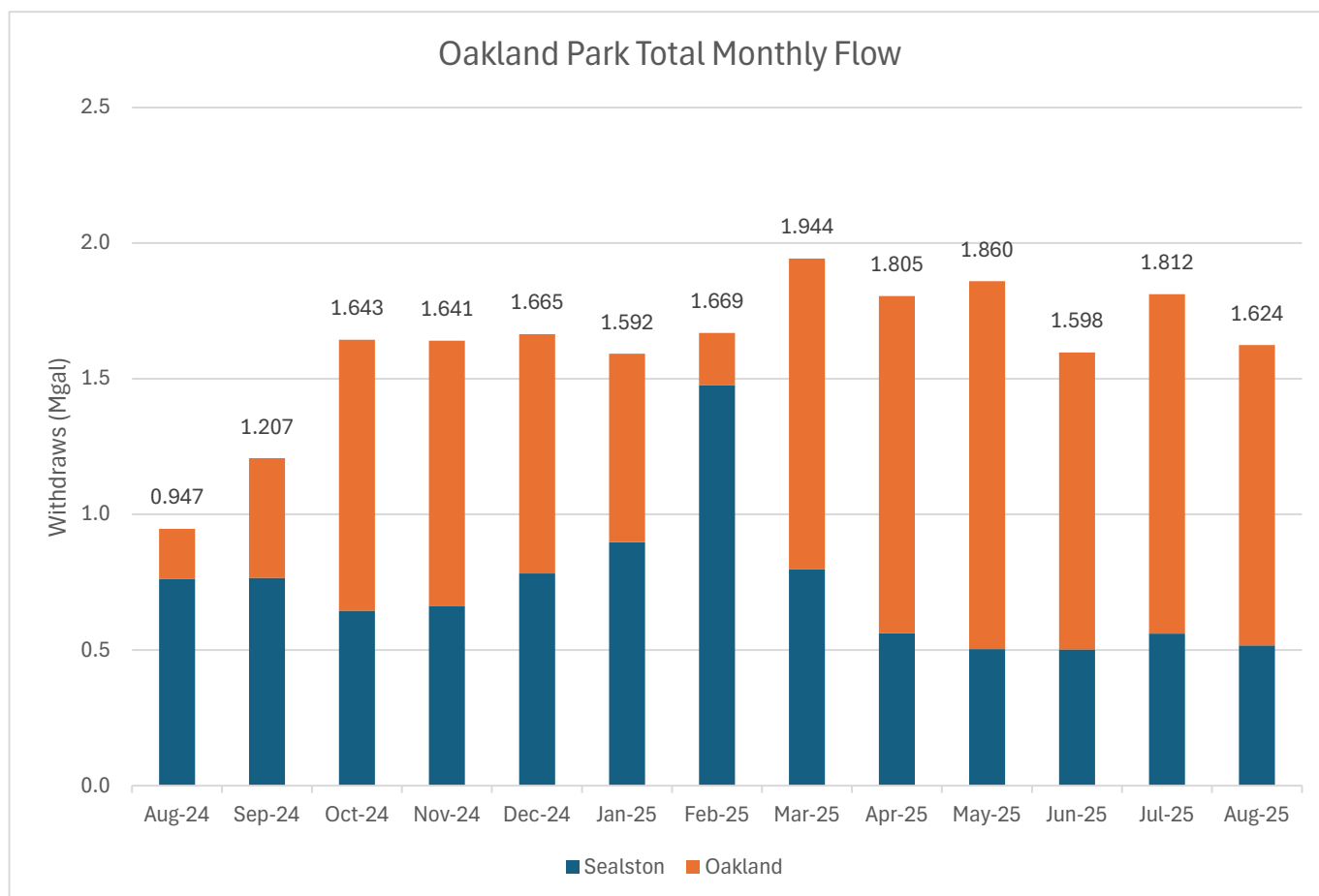
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
020	9124 Fletcher's Chapel Road	8/12/2025	Absent
050	10157 Fletcher's Chapel Road	8/12/2025	Absent

System Production:



St. Paul's/Owens – PWSID 6099550

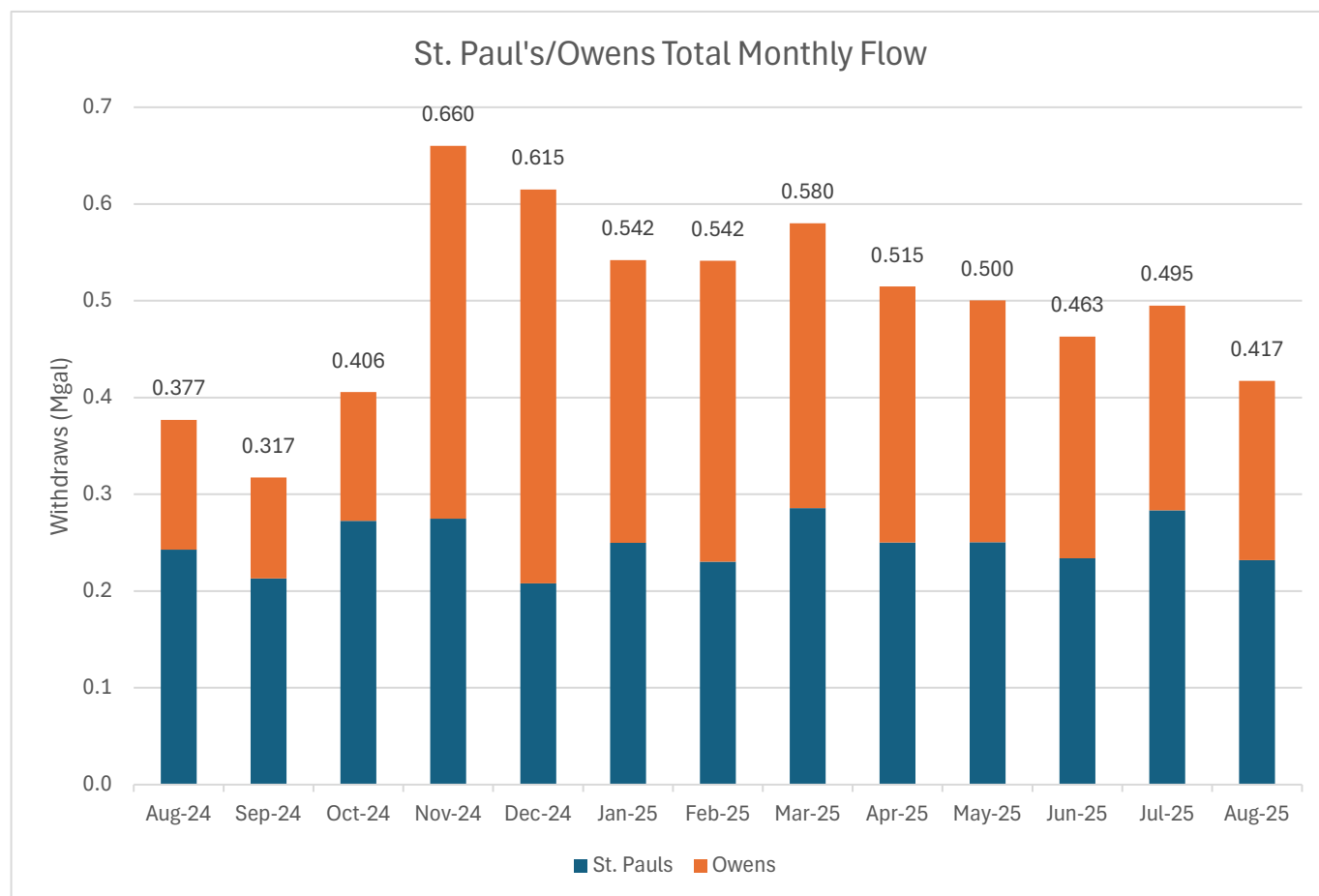
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
030	5268 Thompson Hill Rd.	08/14/2025	Absent

System Production:



WASTEWATER

Dahlgren WWTP

Effluent Quality:

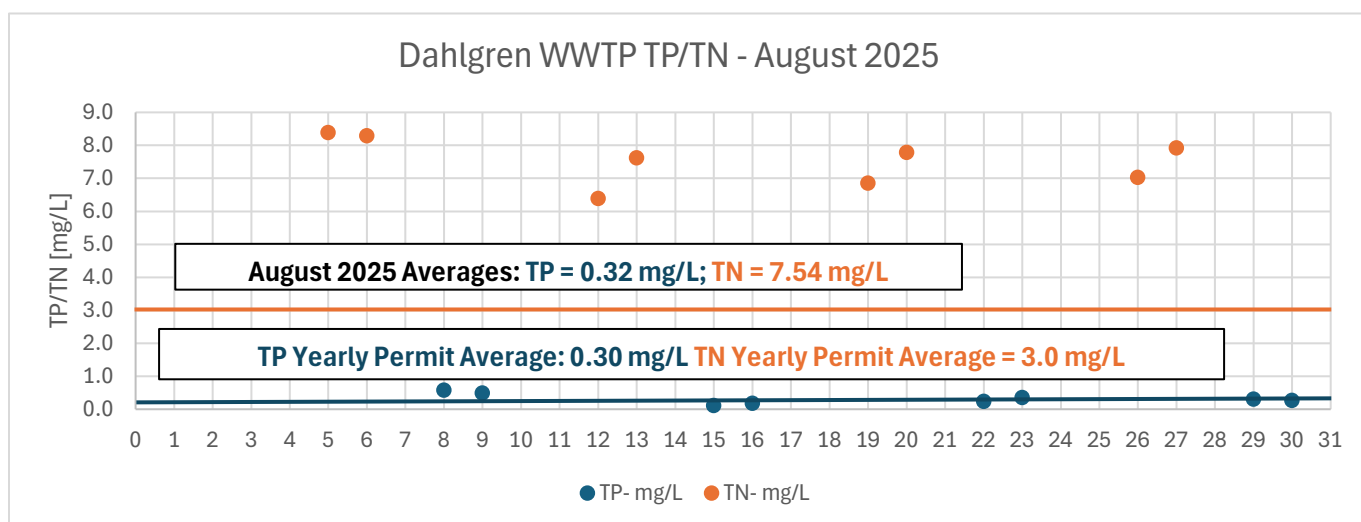
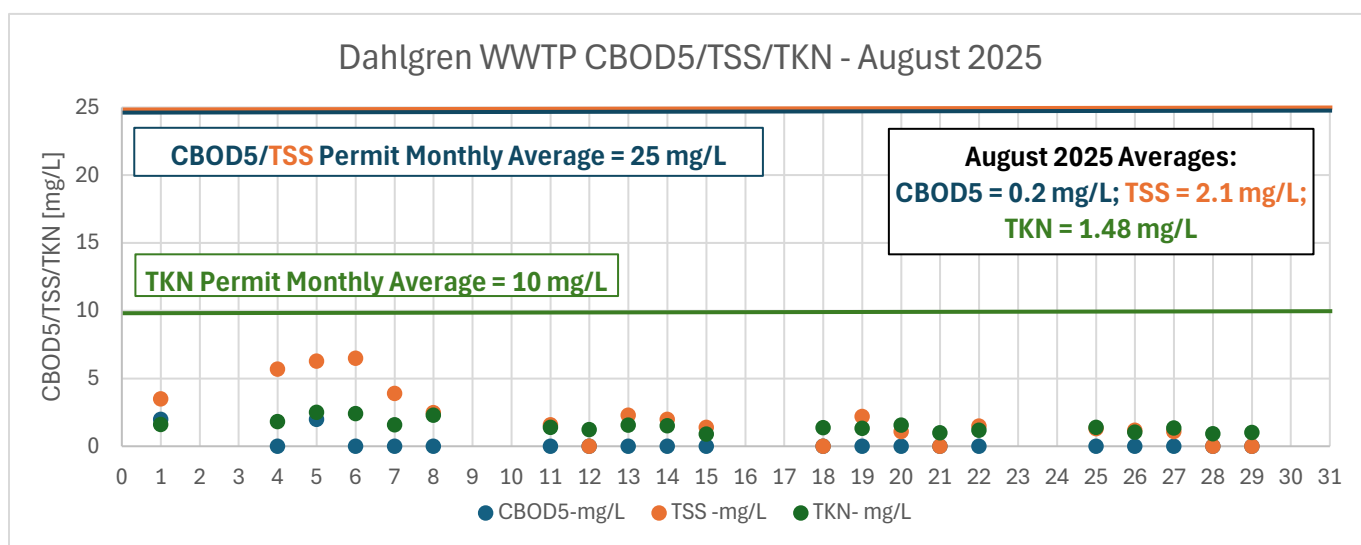
The wastewater treatment facility maintained compliance with all permit-required sampling.

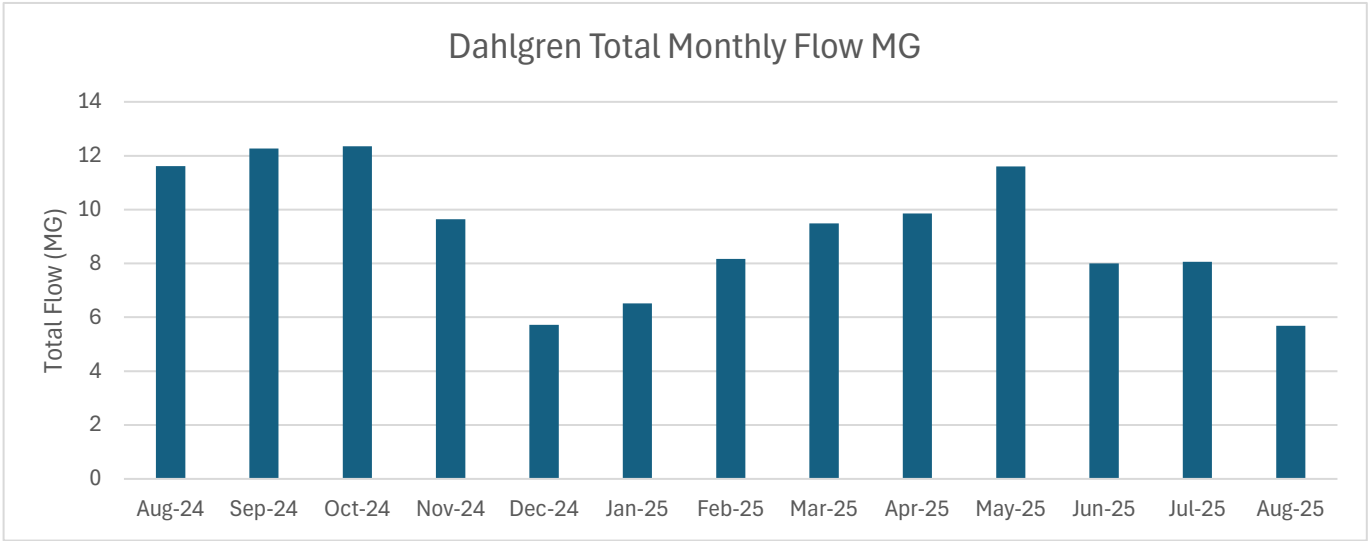
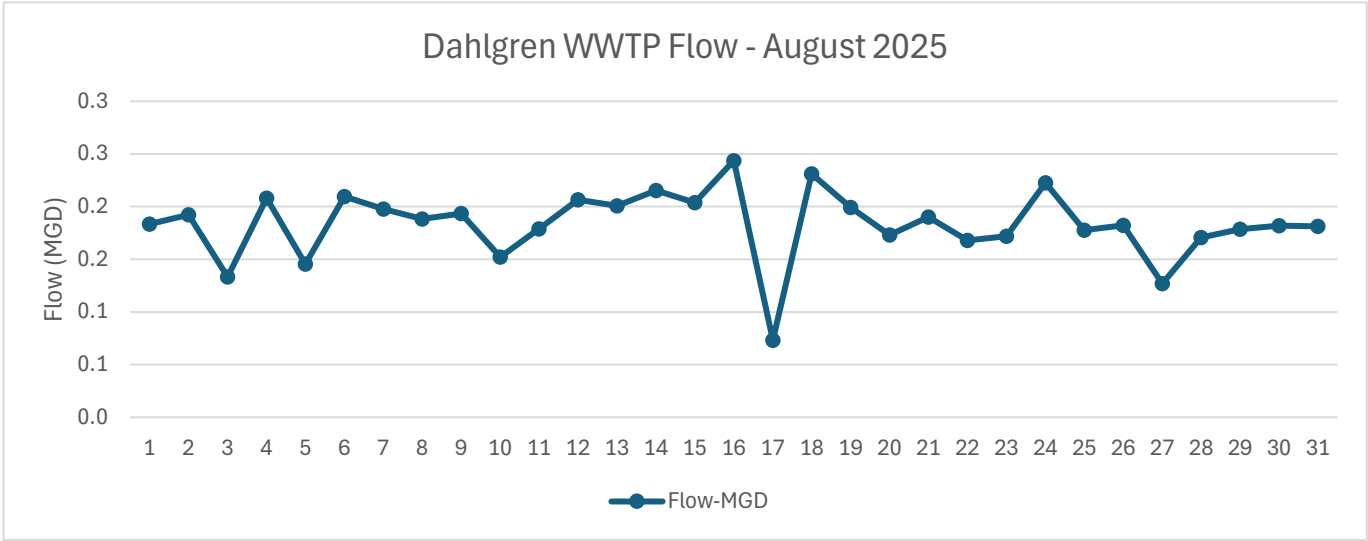
Wastewater Treatment:

The Dahlgren WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.244 MGD for a total monthly discharge of 5.682 MG.

Data Trending:

The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.





Hopyard Farms WWTP

Effluent Quality:

The wastewater treatment facility maintained compliance with all permit-required sampling. E. coli exceedances were noted as explained below.

Wastewater Treatment:

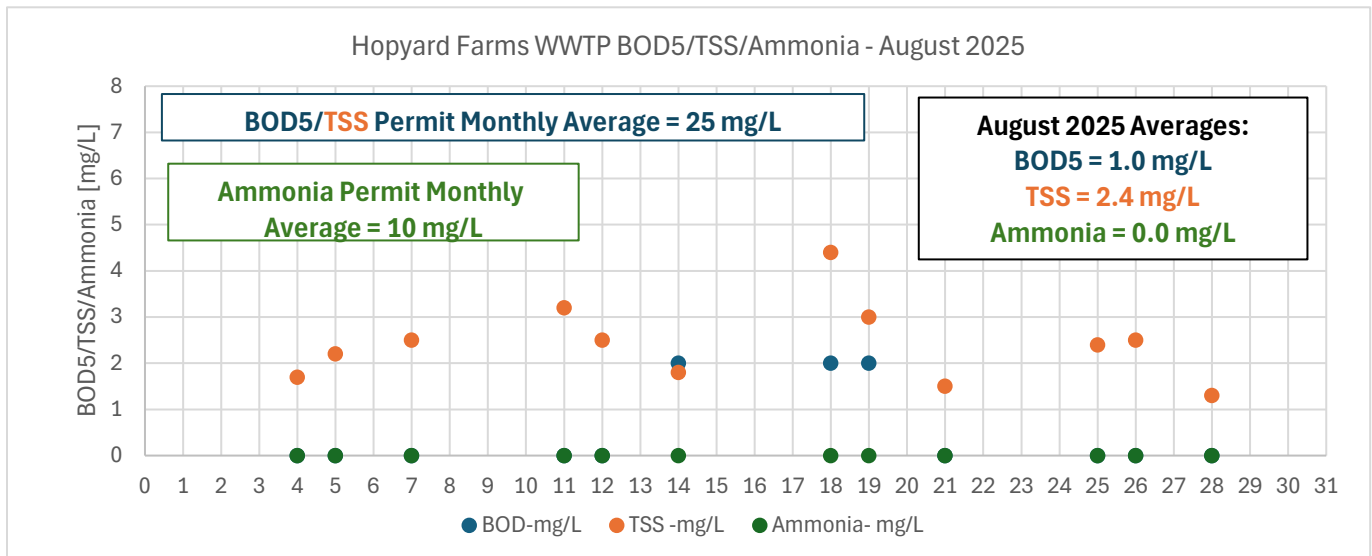
The Hopyard Farms WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.092 MGD for a total monthly discharge of 2.383 MG (26 days with flow).

Exceedance Details:

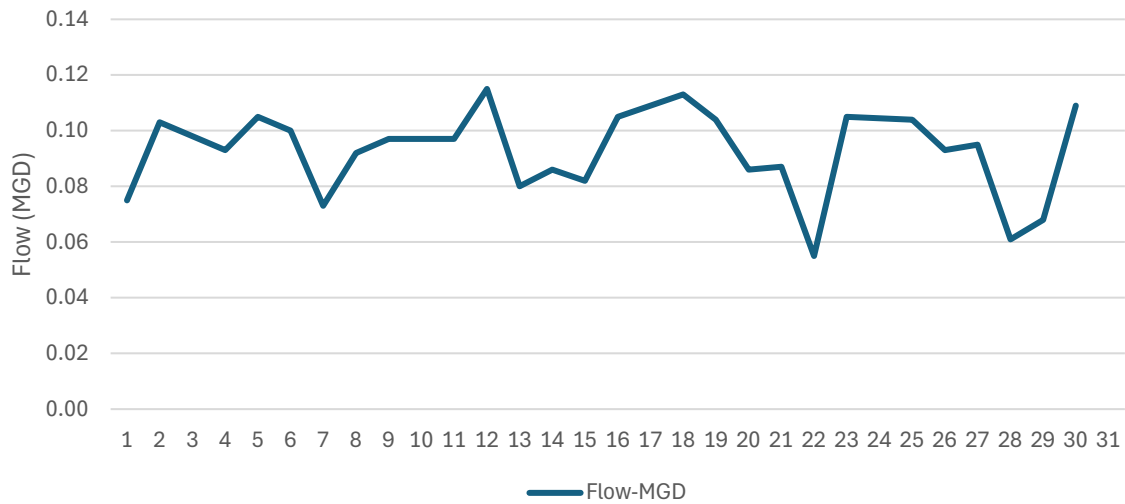
During this monitoring period, a sample collected on August 13th had an E. coli result of >2419n/CML, bringing the geometric mean to >3n/CML. Hopyard Farm WWTP is undergoing construction for the installation of a new UV disinfection system. Given the nature of the work and the environmental conditions surrounding the construction zone, it is believed that the sample was inadvertently contaminated—through airborne dust introduced during the collection process. Due to the long history of low or non-detect E. coli results, it was not deemed necessary to run the sample in extended range. IES believes this was an isolated result and is not representative of the normal operation or performance of the plant.

Data Trending:

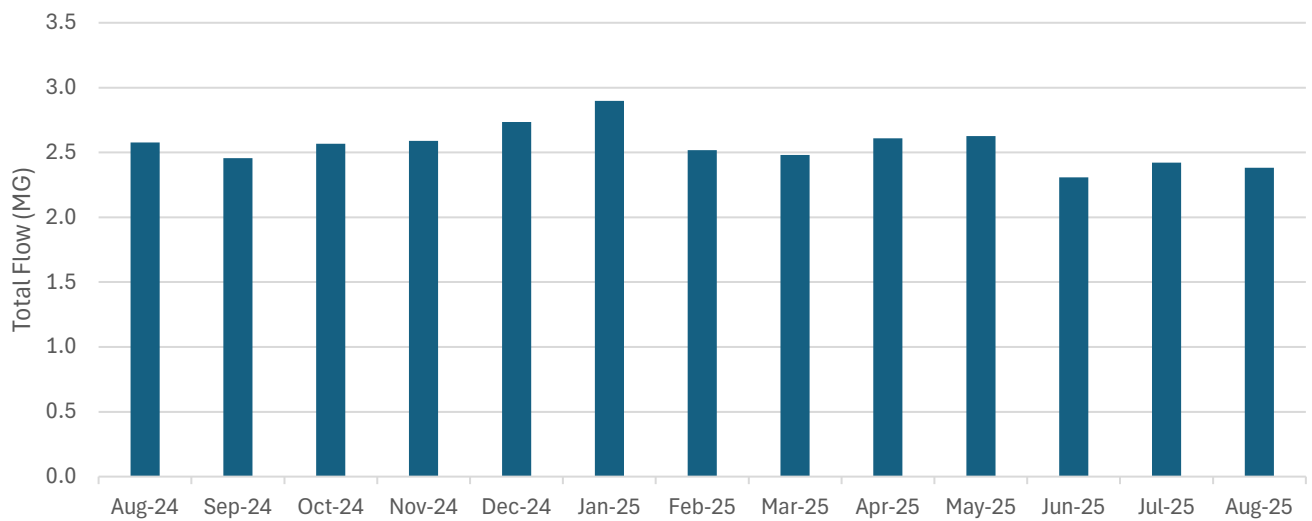
The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.



Hopyard WWTP Flow - August 2025



Hopyard Farms Monthly Flow MG



Purkins Corner WWTP

Effluent Quality:

The wastewater treatment facility maintained compliance with all permit-required sampling. TSS exceedances were noted as explained below.

Wastewater Treatment:

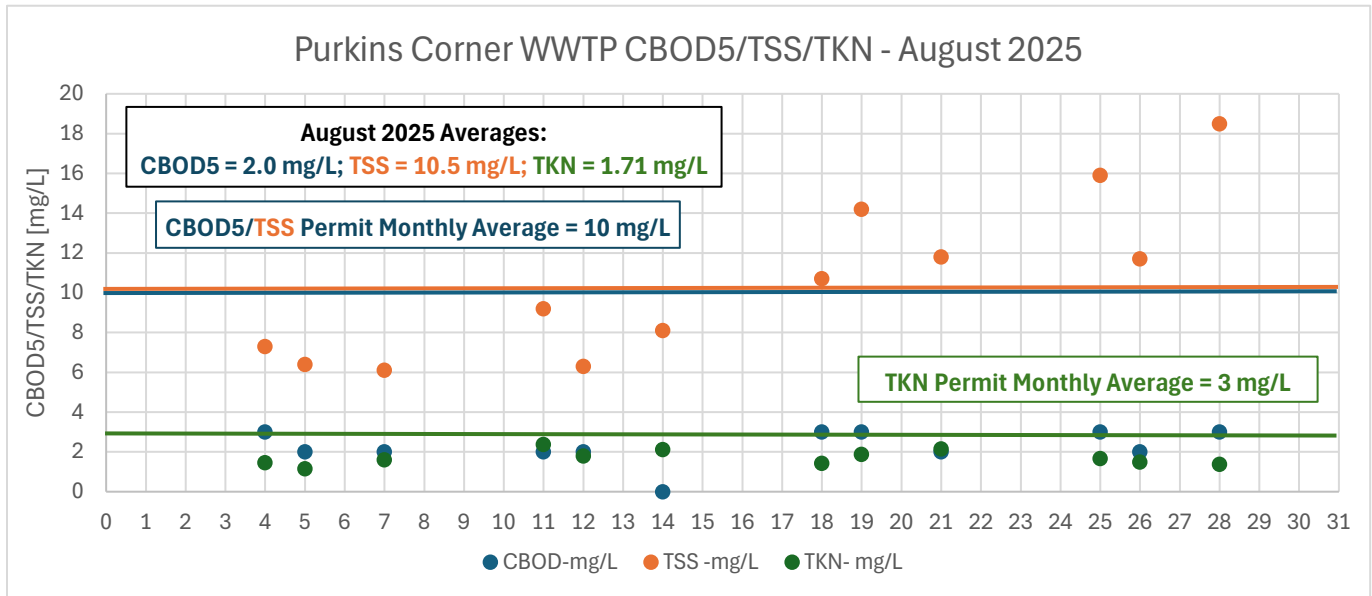
The Purkins Corner WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.066 MGD for a total monthly discharge of 2.048 MG.

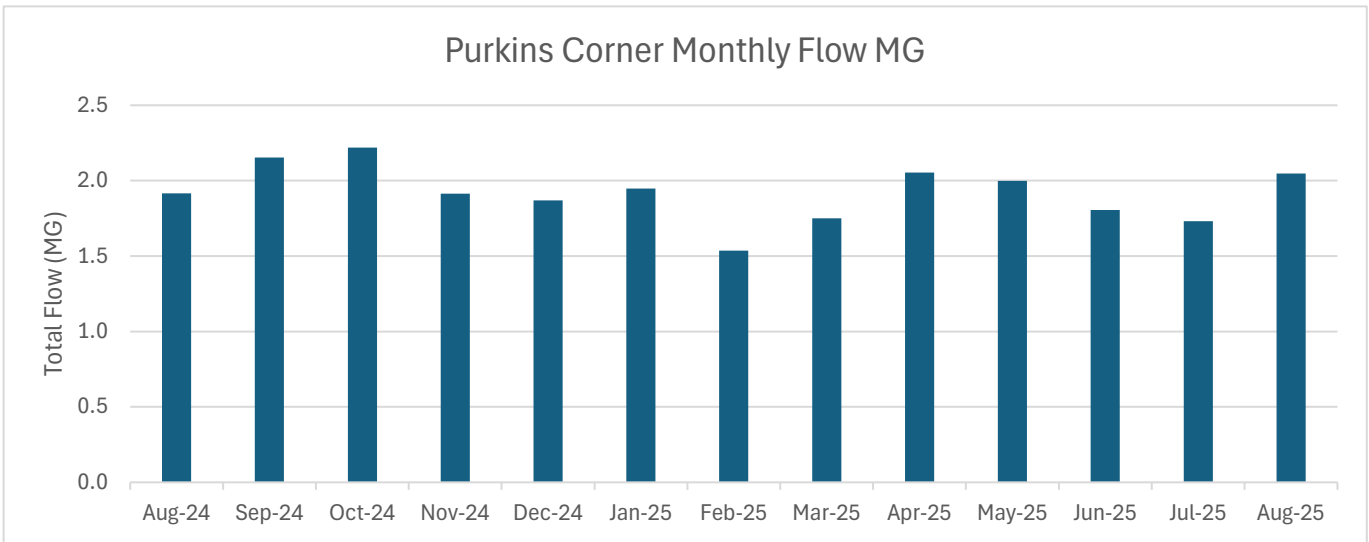
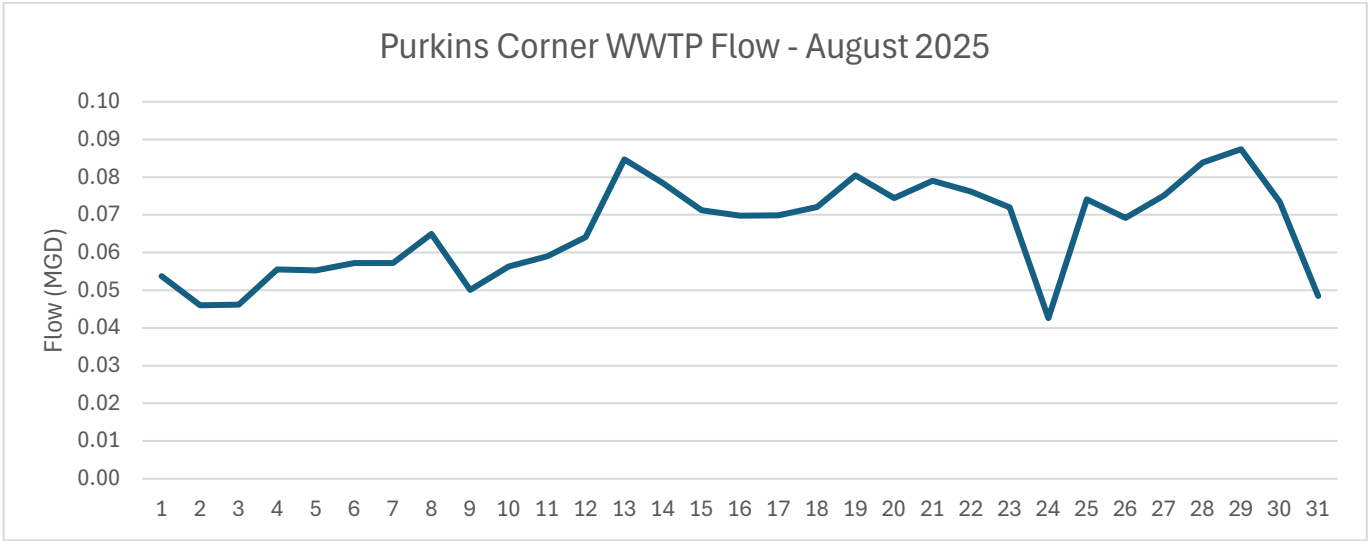
Exceedance Details:

During this monitoring period, the Purkins Corner WWTP experienced elevated TSS concentrations, which exceeded the monthly and weekly permit limits of 10mg/L and 15mg/L, with 10.5mg/L and 15.4mg/L, respectively. The elevated TSS concentrations were due to the disc filter needing to be repaired. The disc filter was repaired on September 10th and IES expects TSS concentrations to return to compliance.

Data Trending:

The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.





Oakland Park WWTP

Effluent Quality:

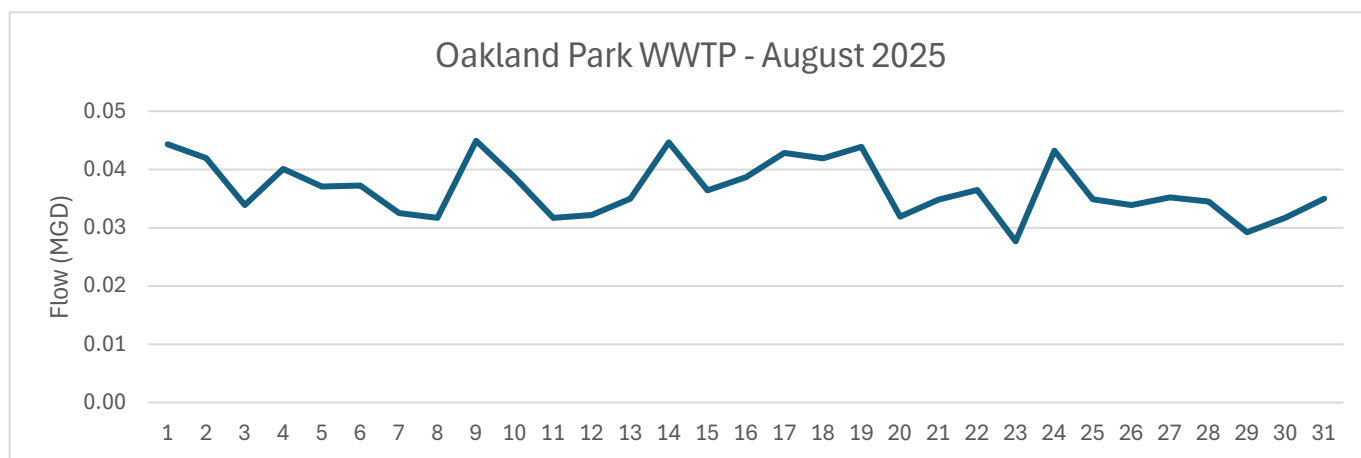
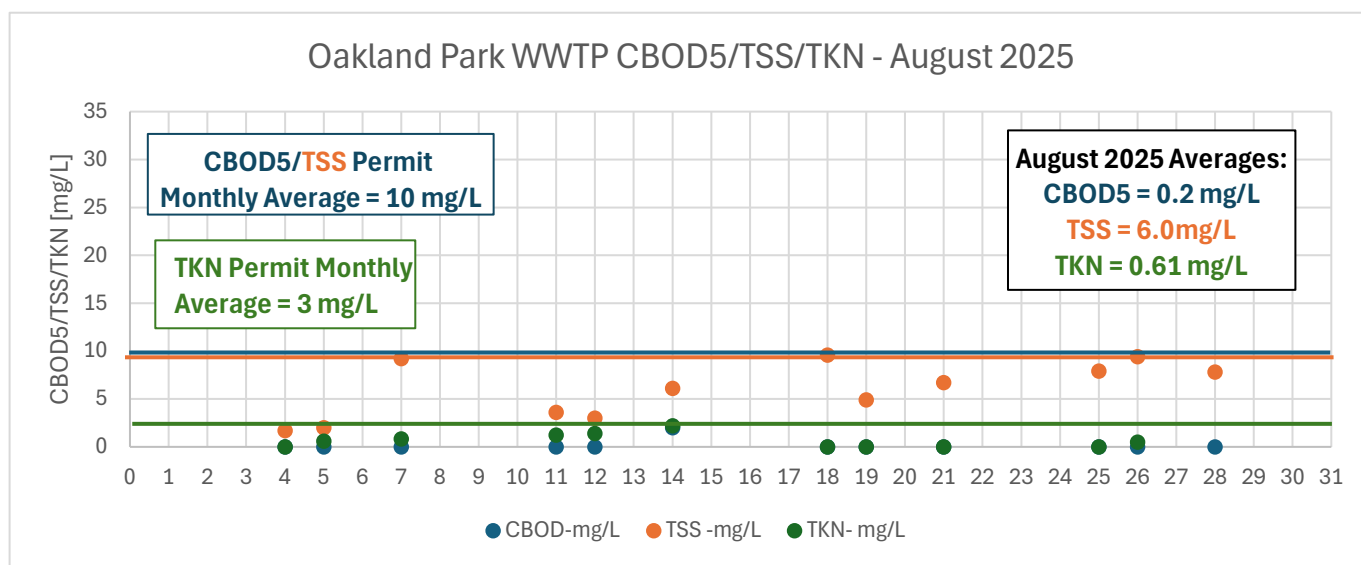
The wastewater treatment facility maintained compliance with all permit-required sampling.

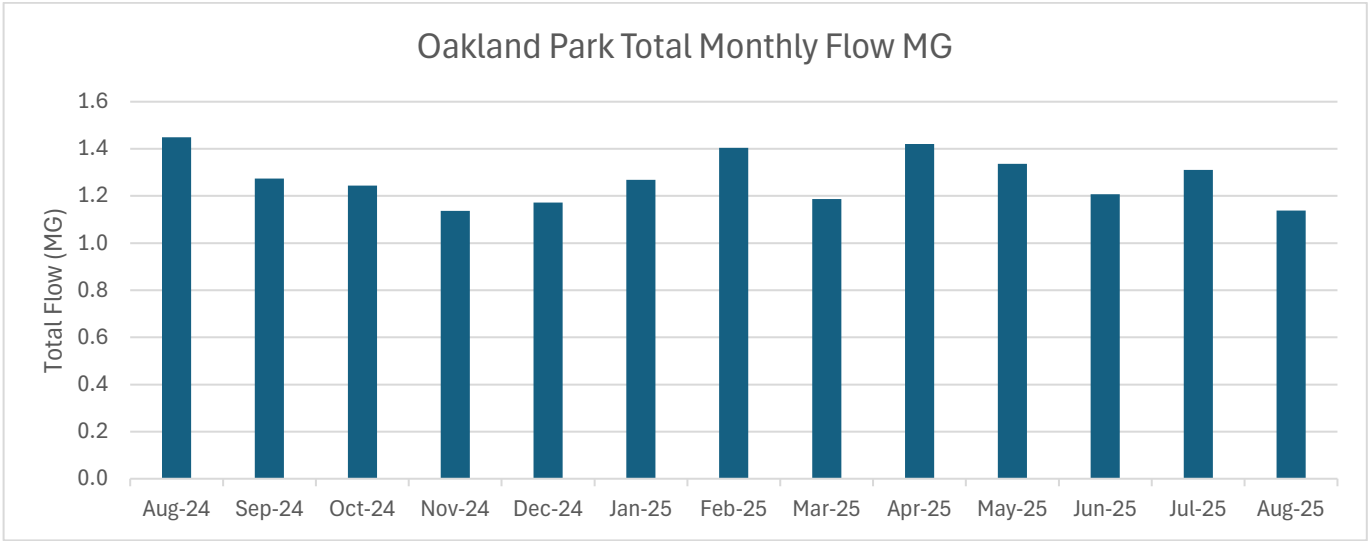
Wastewater Treatment:

The Oakland Park WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.037 MGD for a total monthly discharge of 1.138 MG.

Data Trending:

The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.





Fairview Beach WWTP

Effluent Quality:

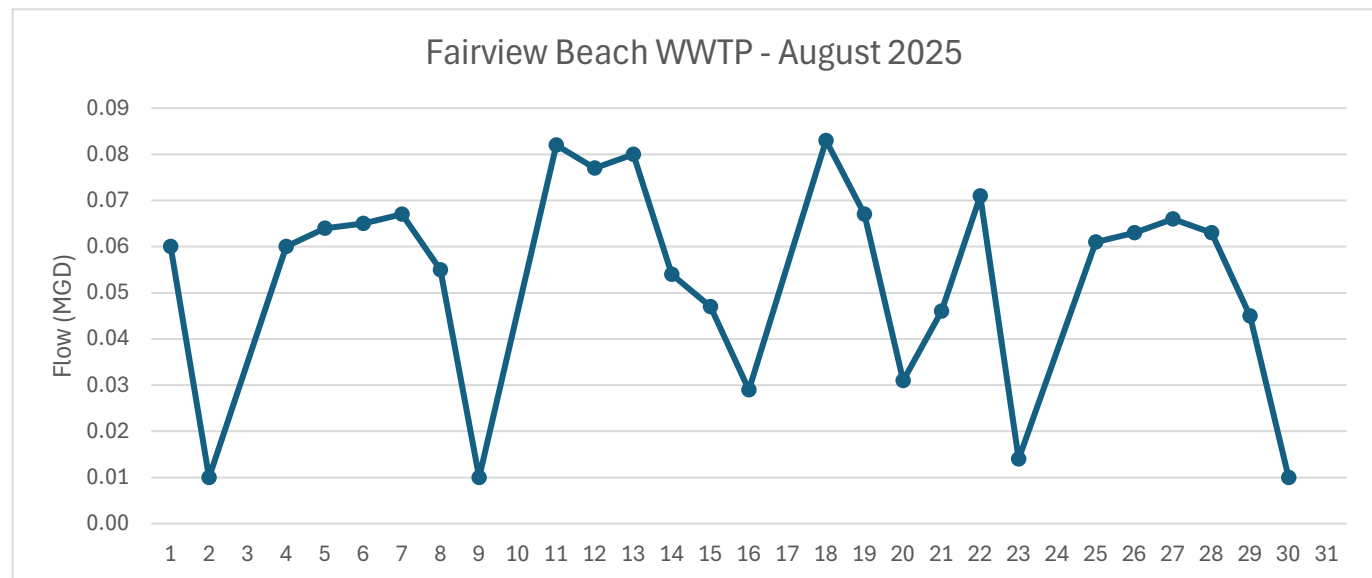
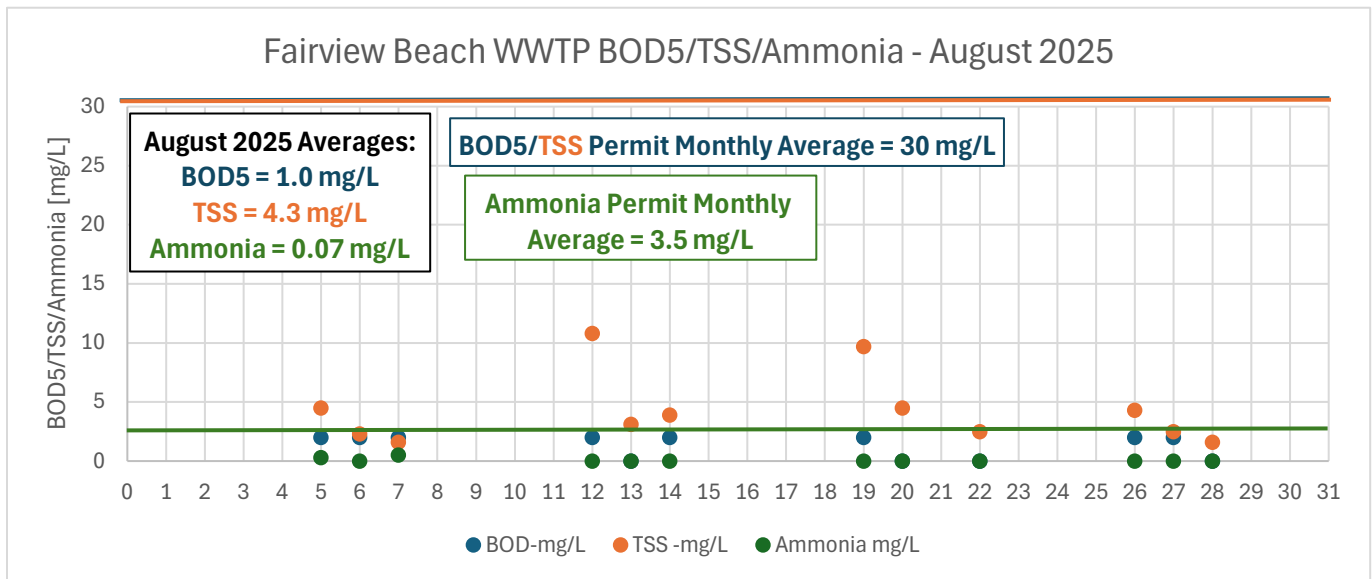
The wastewater treatment facility maintained compliance with all permit-required sampling.

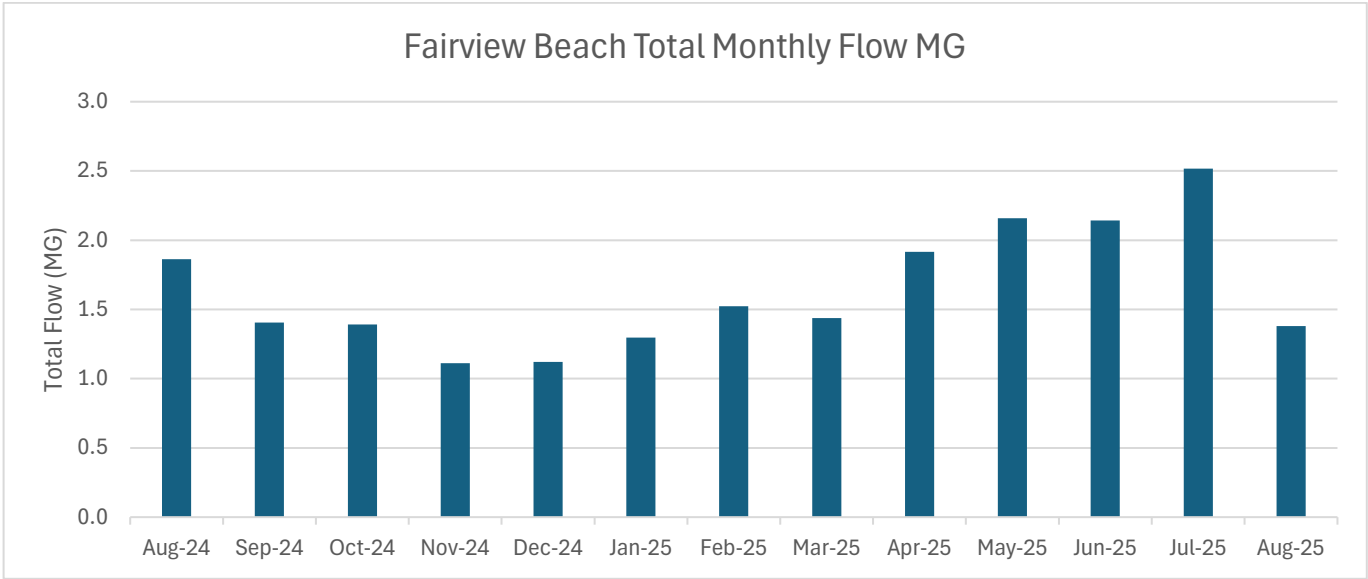
Wastewater Treatment:

The Fairview Beach WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.053 MGD for a total monthly discharge of 1.380 MG (26 days with flow).

Data Trending:

The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.





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