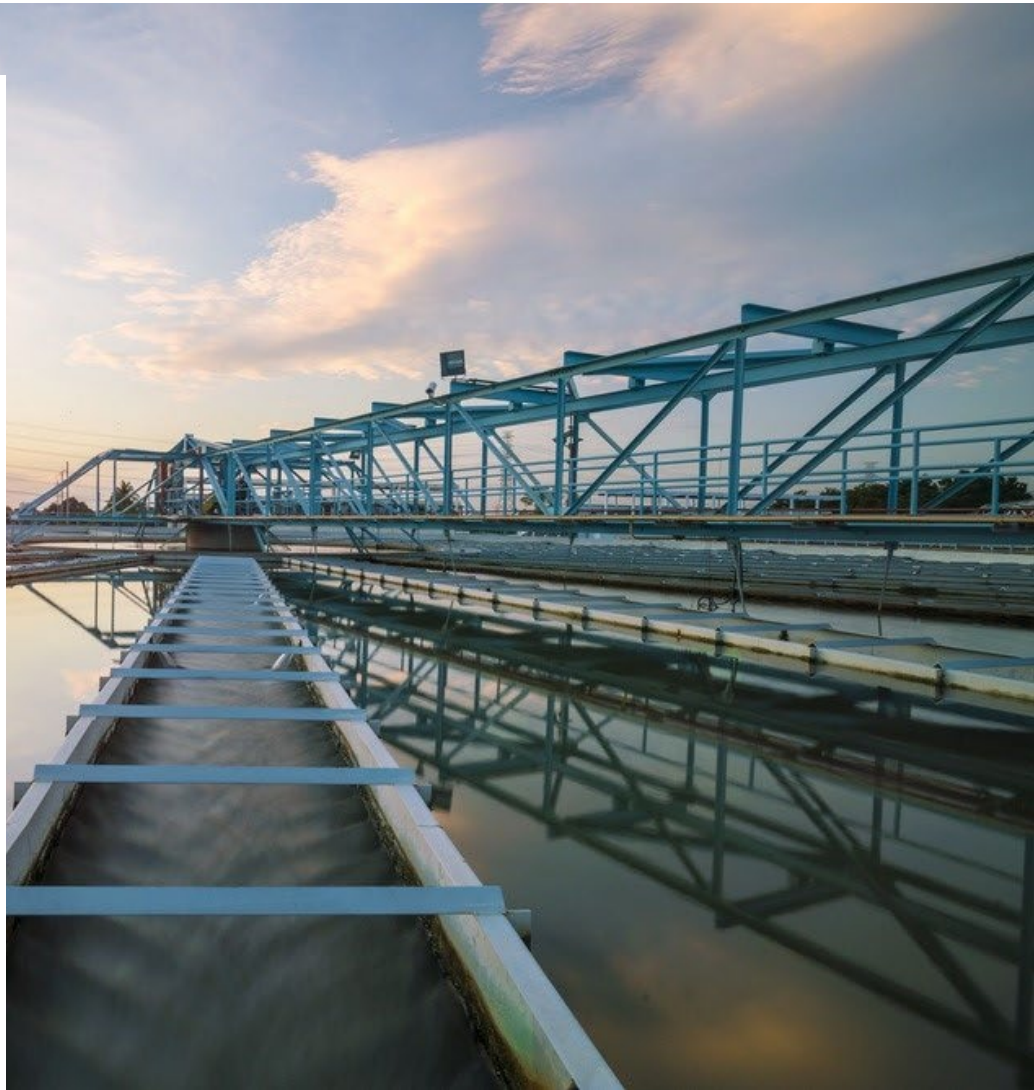


UTILITY REPORT



SEPTEMBER 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

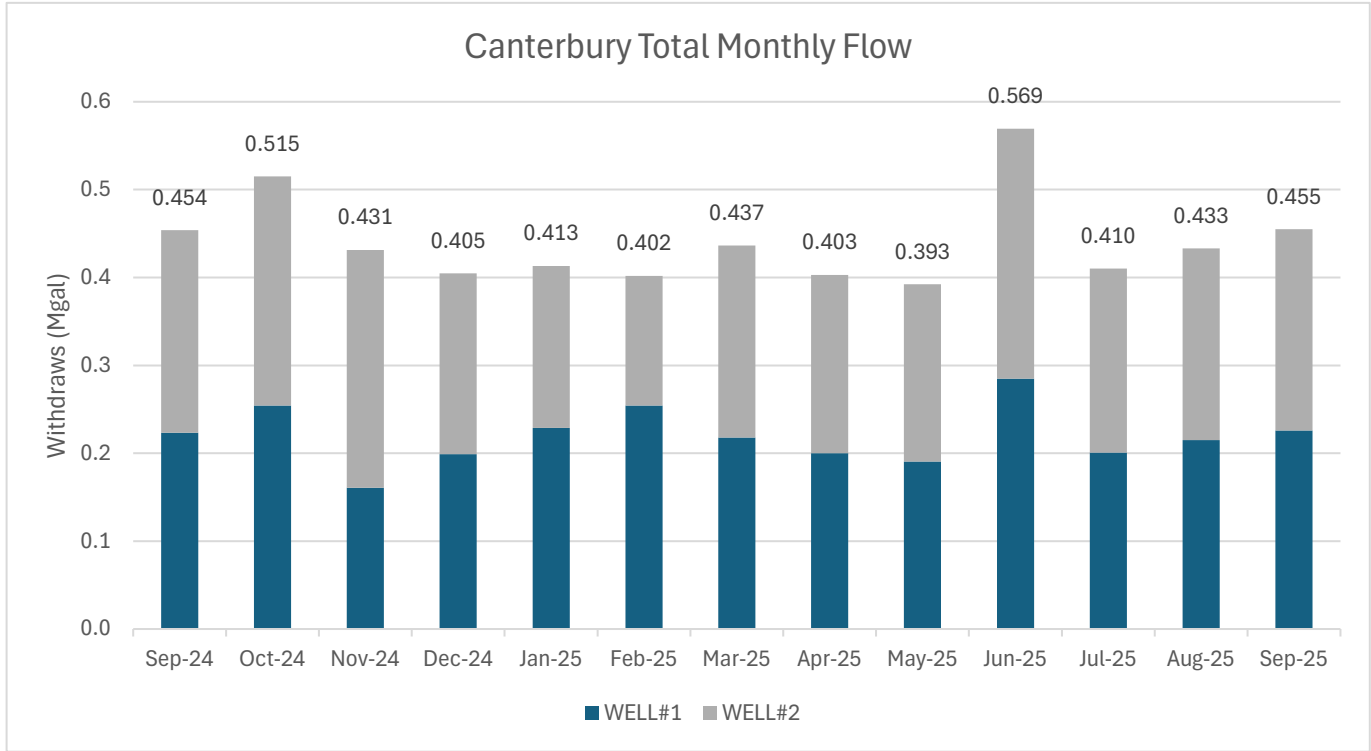
Water Quality:

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 |
|---------------|------------------|----------|--------|
| 020 | 12343 Kent Rd | 9/9/2025 | Absent |

System Production:



Circle – PWSID 6099100

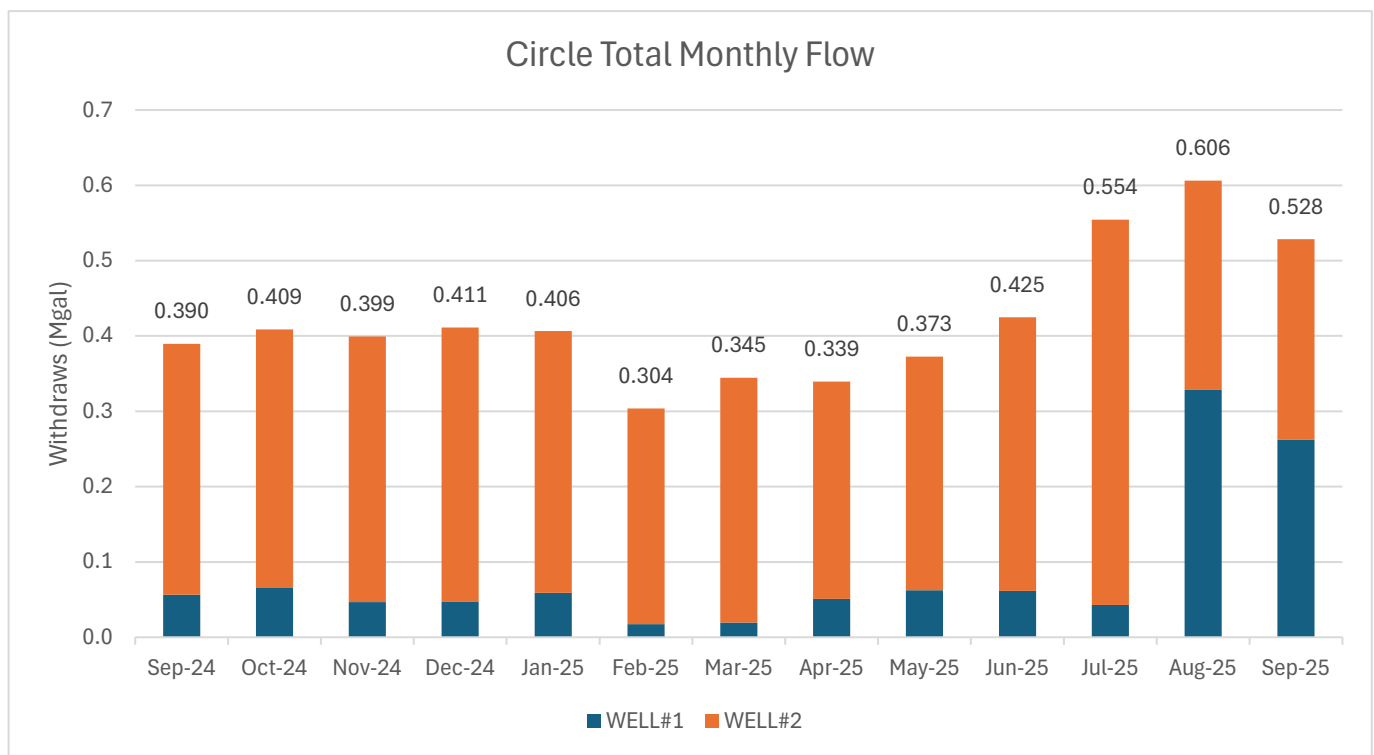
Water Quality:

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 |
|---------------|-----------------------|-----------|--------|
| 030 | 11052 Vernon Woods Dr | 9/11/2025 | Absent |

System Production:



KGC Courthouse – PWSID 6099050

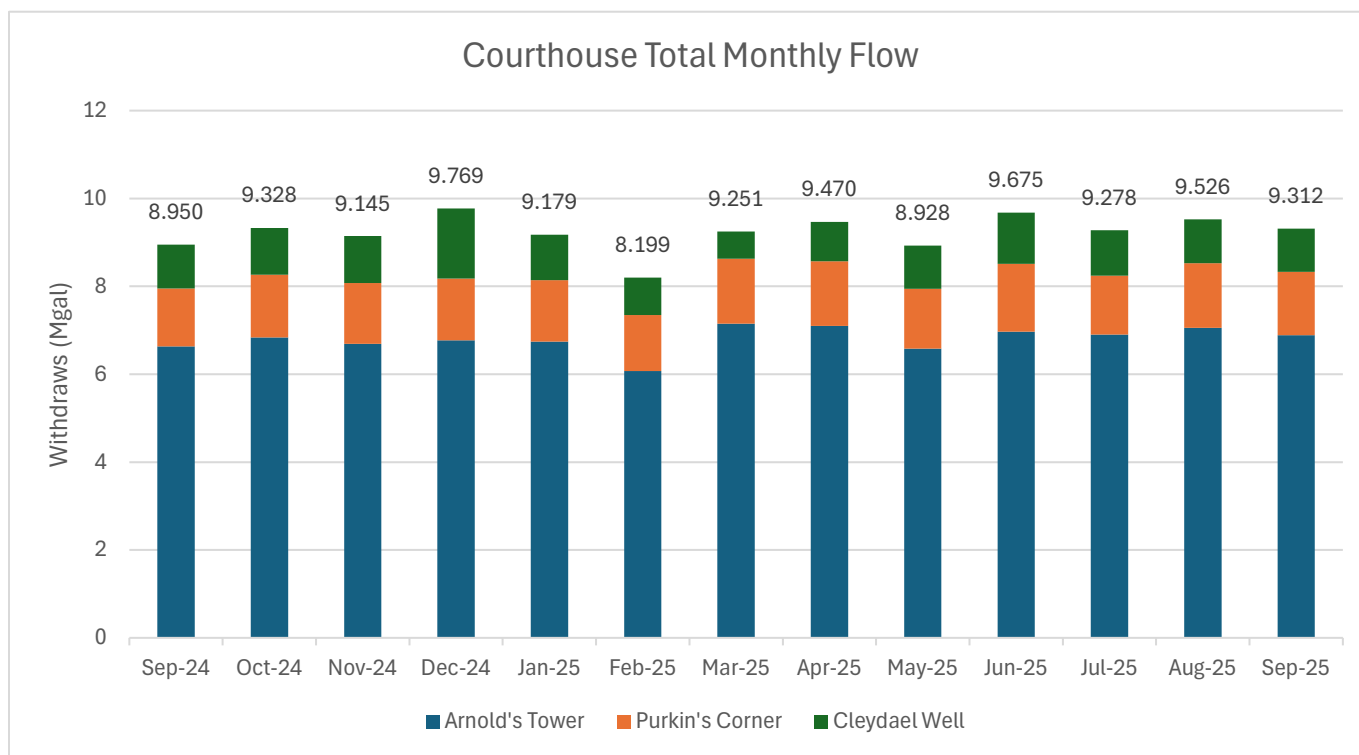
Water Quality:

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 |
|---------------|----------------------|-----------|--------|
| 015 | 9287 King's Hwy | 9/9/2025 | Absent |
| 010 | 10404 Eisenhower Dr | 9/9/2025 | Absent |
| 013 | 8095 Washington Dr | 9/9/2025 | Absent |
| 09 | 7347 Jackson Dr | 9/11/2025 | Absent |
| 08 | 12382 Richard's Ride | 9/11/2025 | Absent |

System Production:



Dahlgren – PWSID 6099295

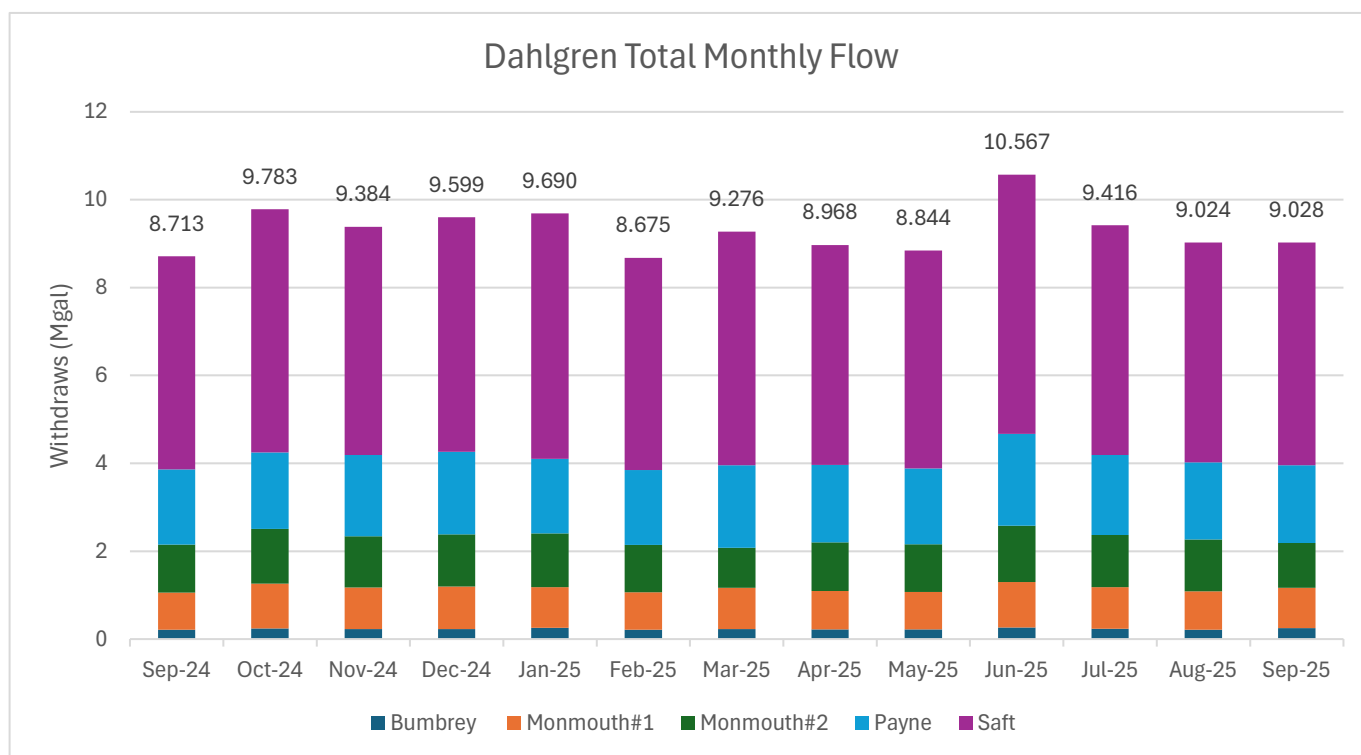
Water Quality:

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 |
|---------------|--------------------------|-----------|--------|
| 01 | 15375 Dahlgren Rd | 9/9/2025 | Absent |
| 02 | 5134 Mallards Landing Dr | 9/11/2025 | Absent |
| 09U | 17014 Village Ln | 9/11/2025 | Absent |

System Production:



Fairview Beach – PWSID 6099250

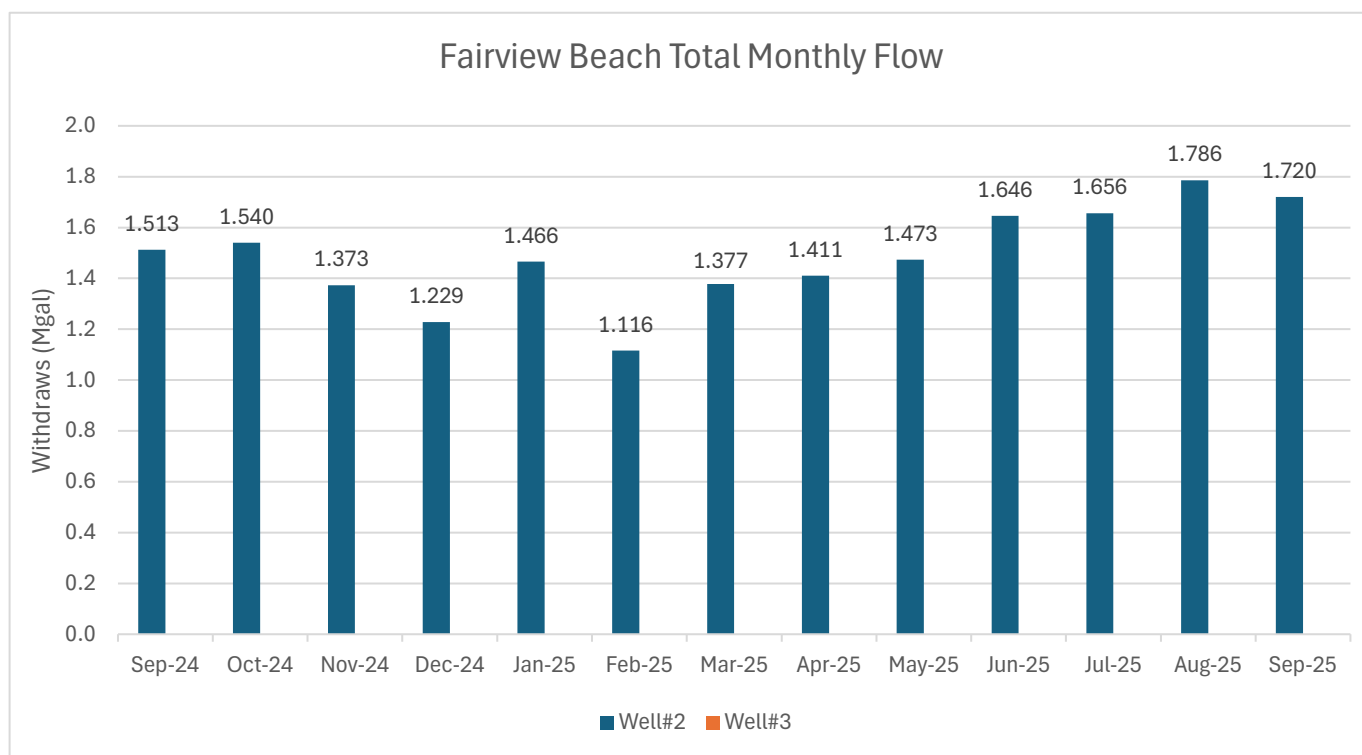
Water Quality:

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 |
|---------------|-------------------|----------|--------|
| 010 | 5435 Pavillion Dr | 9/9/2025 | Absent |

System Production:



Hopyard Farm – PWSID 6099283

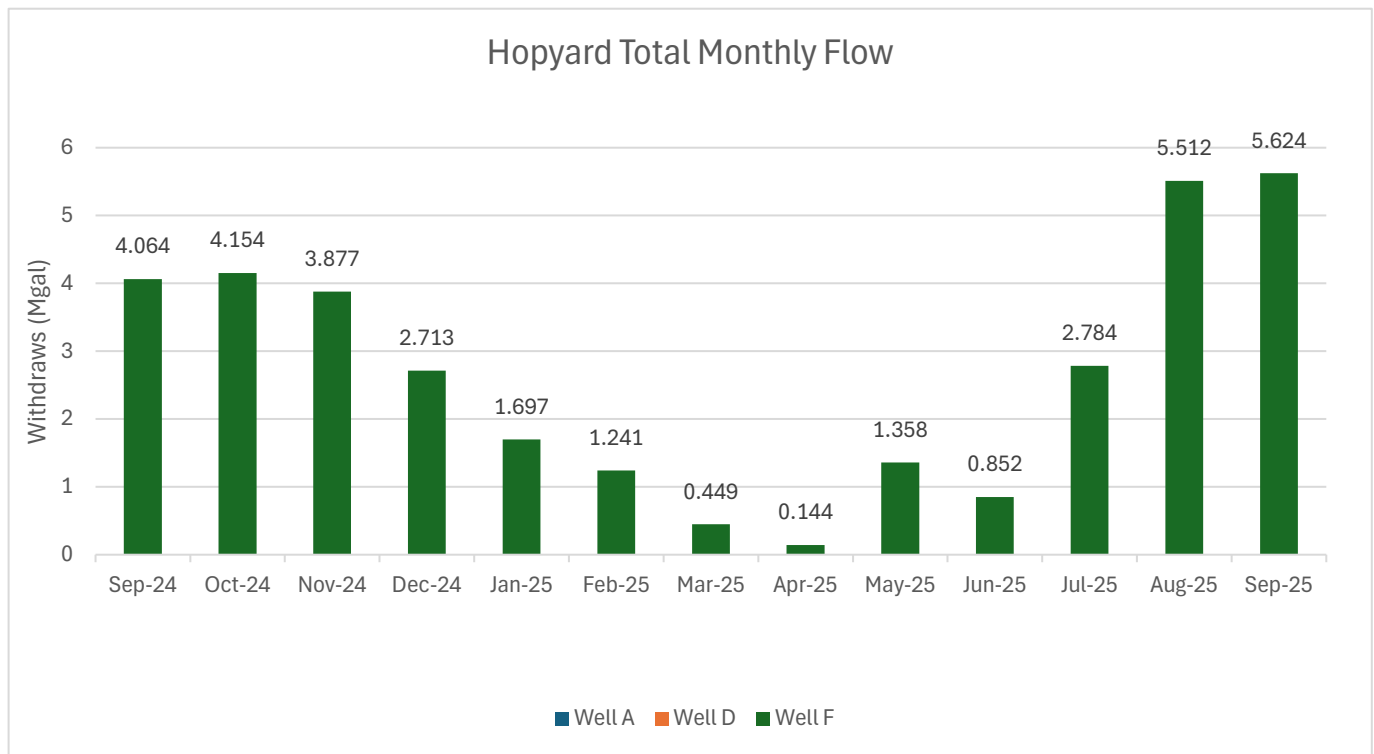
Water Quality:

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 |
|---------------|------------------|----------|--------|
| 03 | 6190 McCarthy Dr | 9/4/2025 | Absent |
| 05D | 5211 Spinnaker | 9/4/2025 | Absent |

System Production:



KGC School Board Office – PWSID 6099296

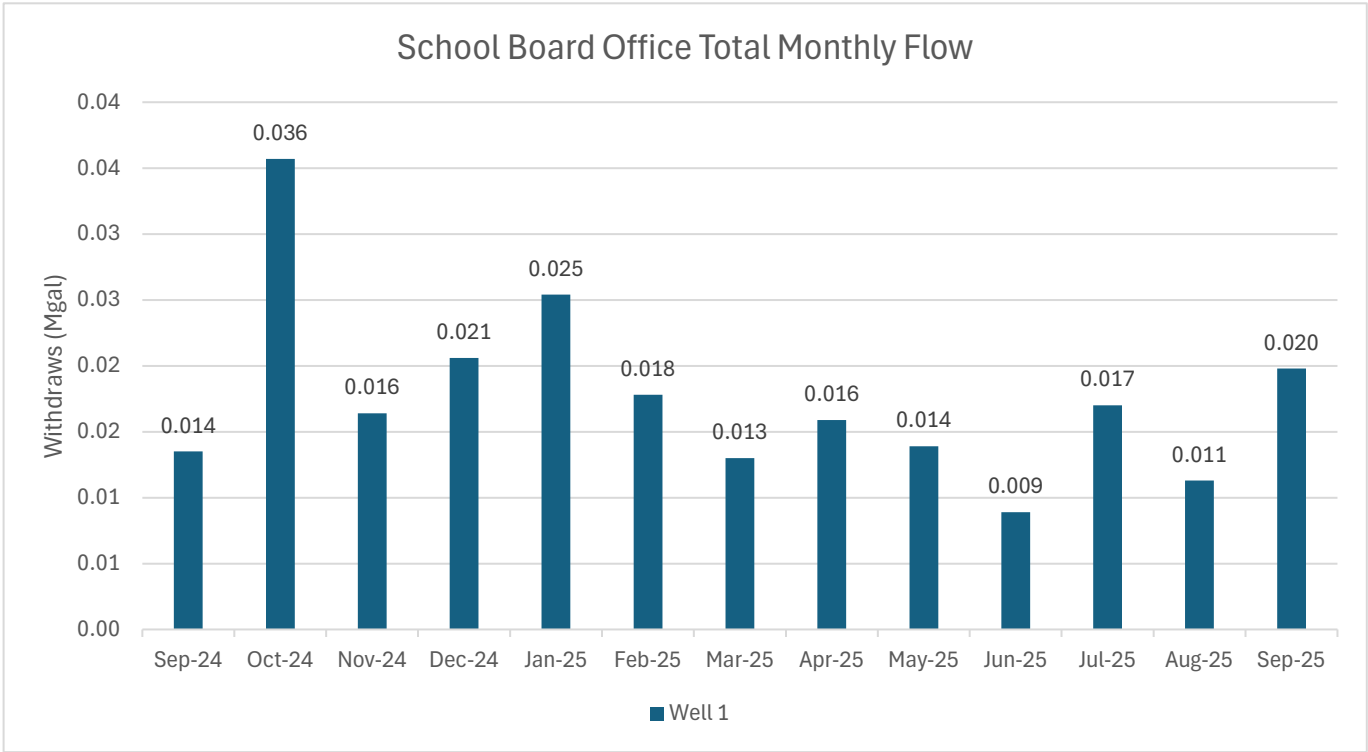
Water Quality:

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 |
|---------------|------------------------|----------|--------|
| 010 | Human Resources Office | 9/9/2025 | Absent |

System Production:



Ninde's Store – PWSID 6099300

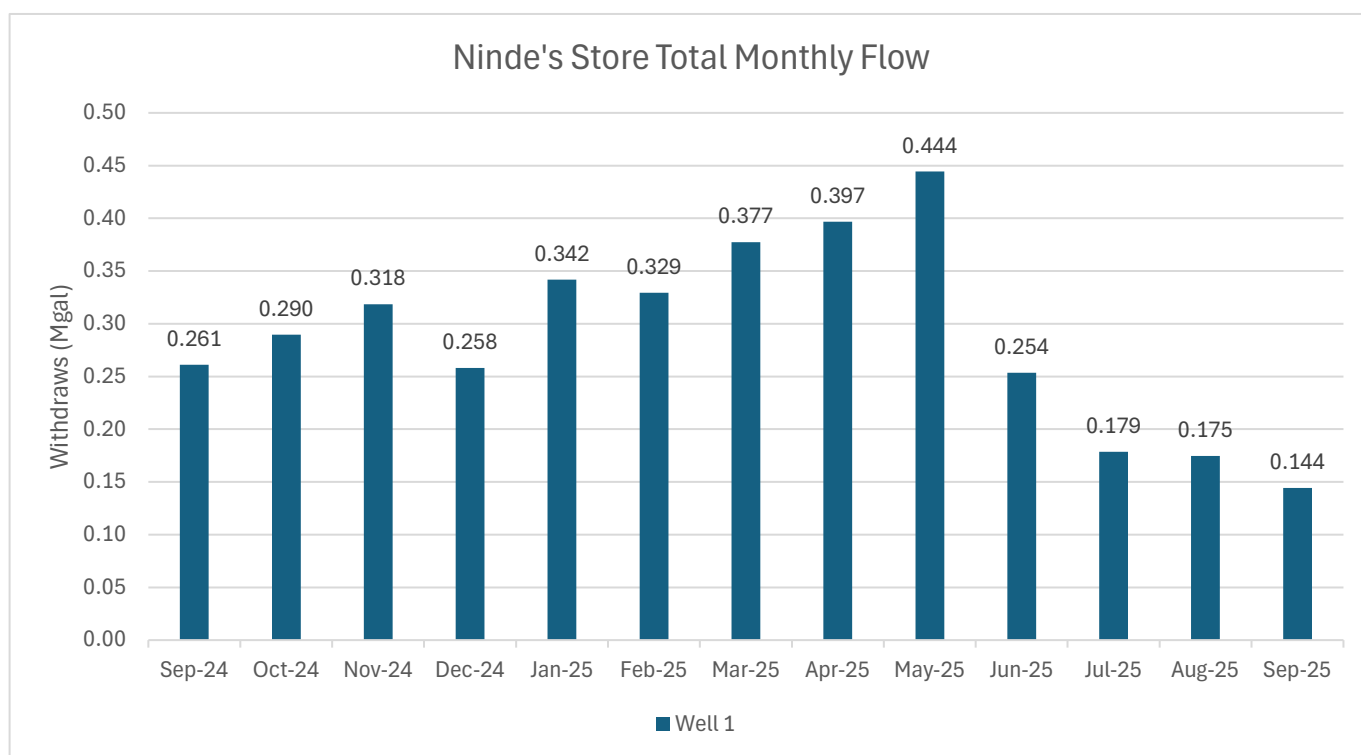
Water Quality:

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

Bacteriological Analysis:

| Location Code | Location Address | Date | Result |
|---------------|--------------------|-----------|--|
| 01 | 16195 Ridge Road | 9/11/2025 | Total Coliform - Present E. Coli - Absent |
| 01 – RP | 16195 Ridge Road | 9/16/2025 | Absent |
| 01D – RP | 16219 Ridge Road | 9/16/2025 | Absent |
| 01U – RP | 16197 Ridge Road | 9/16/2025 | Absent |
| RW – TG | Ninde's Store Well | 9/16/2025 | Absent |

System Production:



Oakland Park – PWSID 6099350

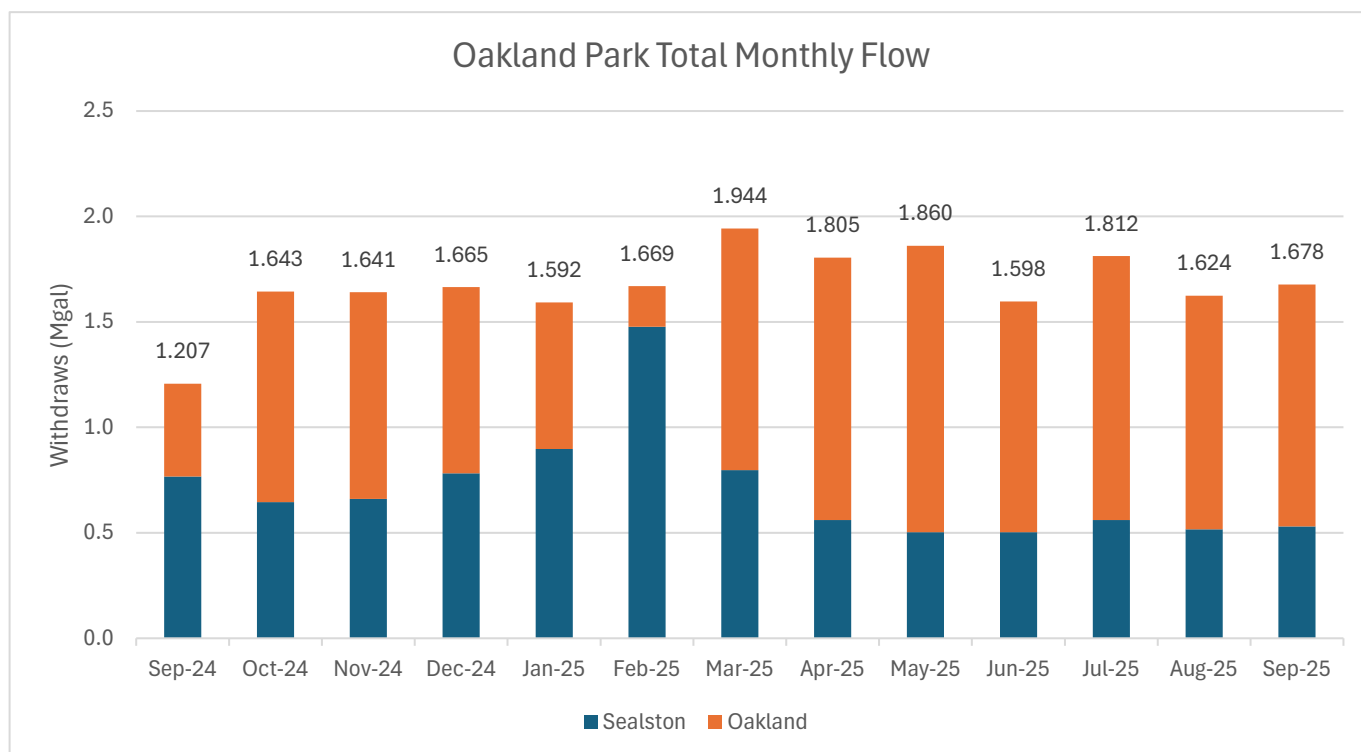
Water Quality:

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 |
|---------------|-------------------|----------|--------|
| 030 | 9121 Covington St | 9/4/2025 | Absent |
| 040 | 1139 French Ct | 9/4/2025 | Absent |

System Production:



St. Paul's/Owens – PWSID 6099550

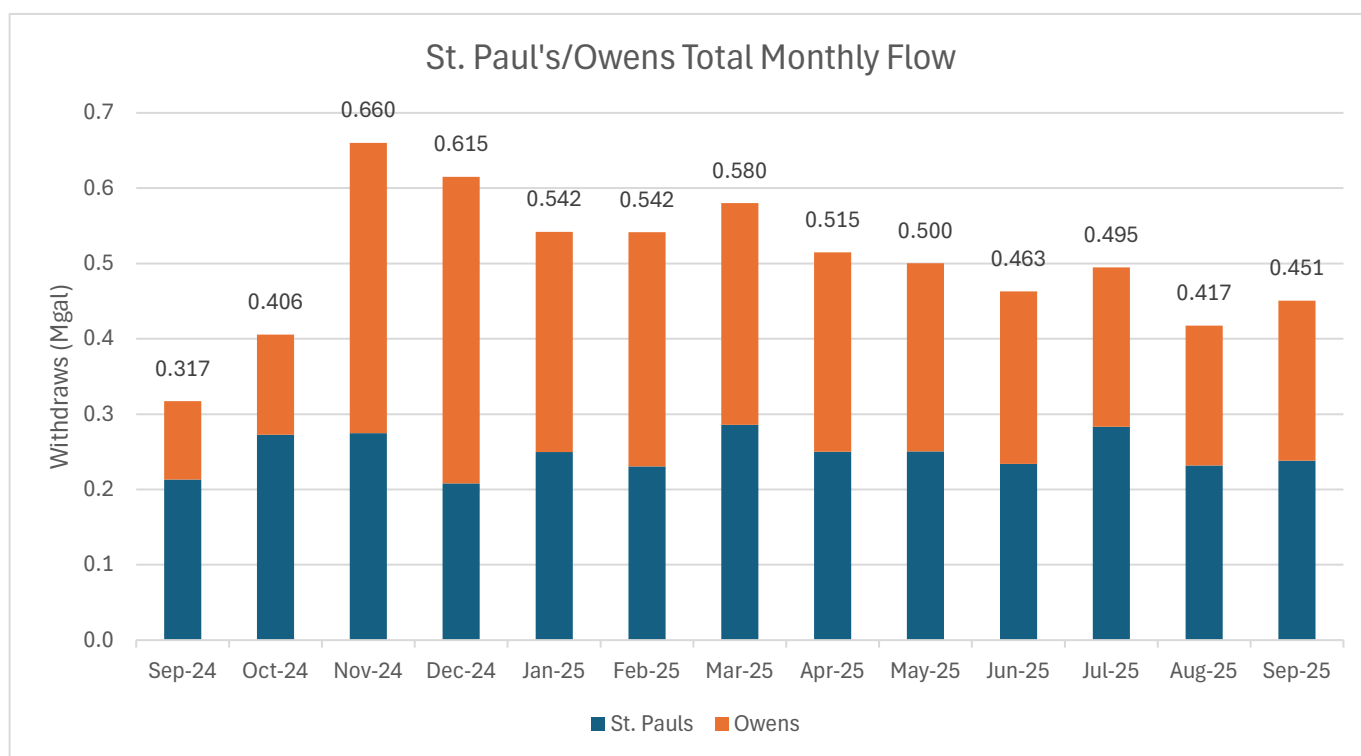
Water Quality:

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

Bacteriological Analysis:

| Location Code | Location Address | Date | Result |
|---------------|--------------------|-----------|--|
| 010 | 5486 St. Paul's Rd | 9/11/2025 | Total Coliform – Present E. Coli - Absent |
| 010 - RP | 5486 St. Paul's Rd | 9/11/2025 | Absent |
| 01D – RP | 6020 St. Paul's Rd | 9/16/2025 | Absent |
| 01U – RP | 5520 St. Paul's Rd | 9/16/2025 | Absent |
| RW – TG | St. Paul's Well | 9/16/2025 | Absent |

System Production:



WASTEWATER

Dahlgren WWTP

Effluent Quality:

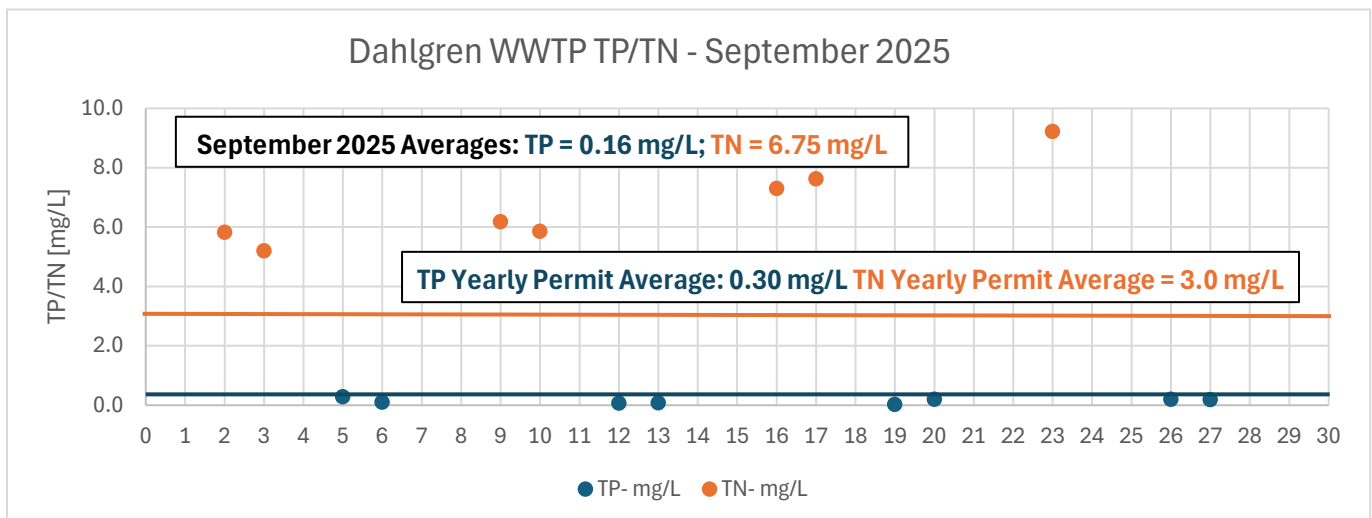
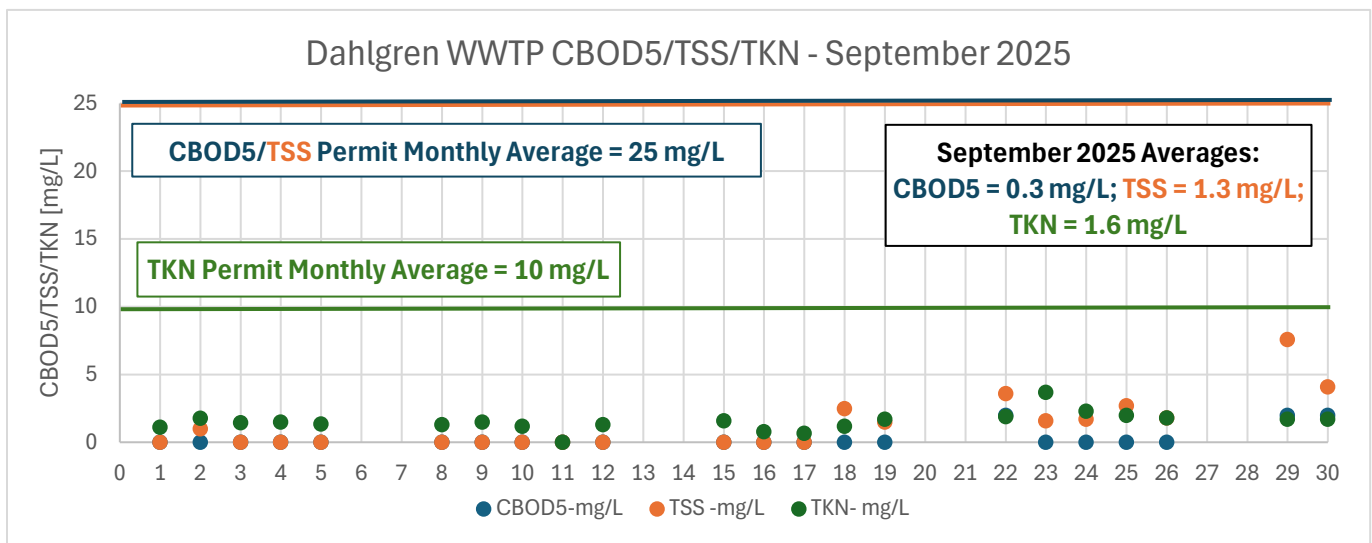
The wastewater treatment facility maintained compliance with all permit-required sampling.

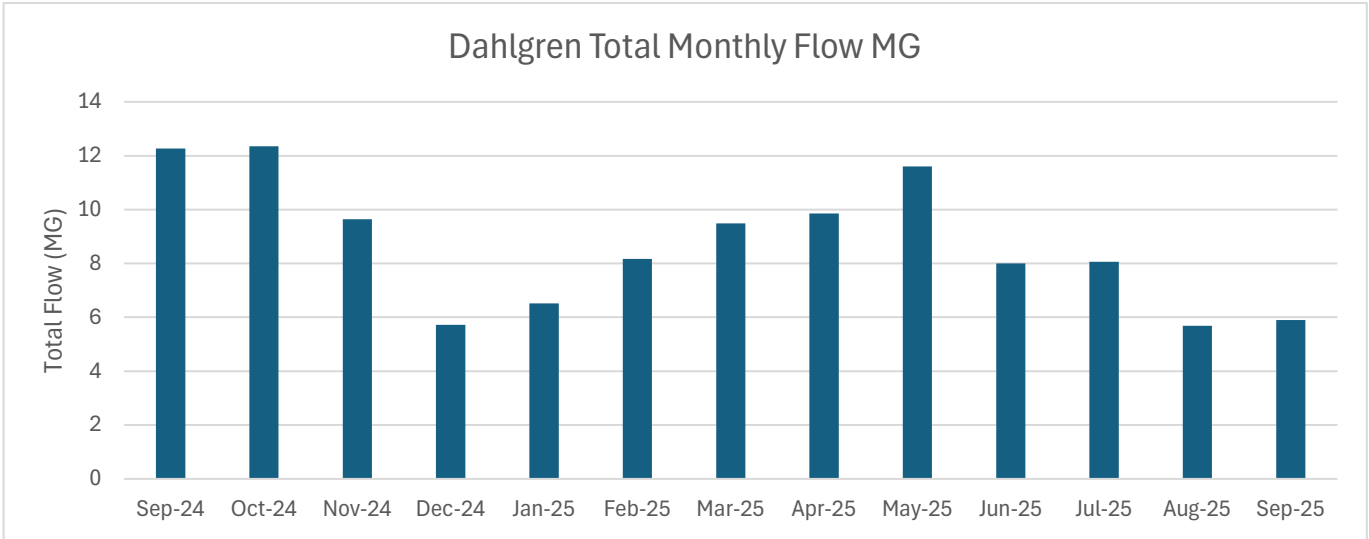
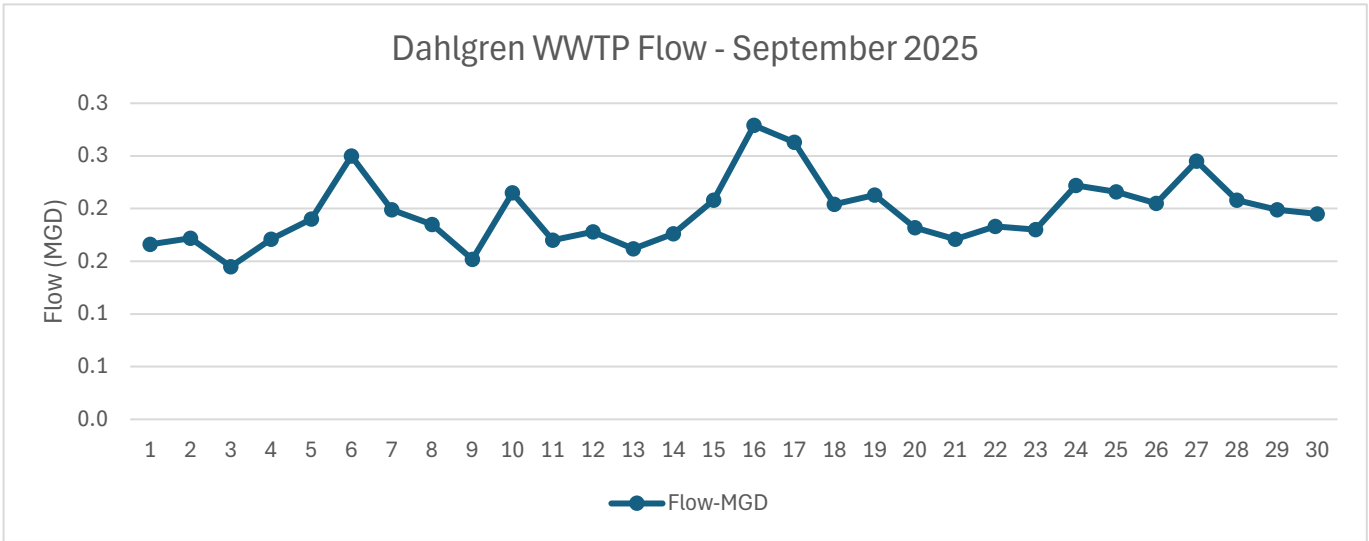
Wastewater Treatment:

The Dahlgren WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.197 MGD for a total monthly discharge of 5.904 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:

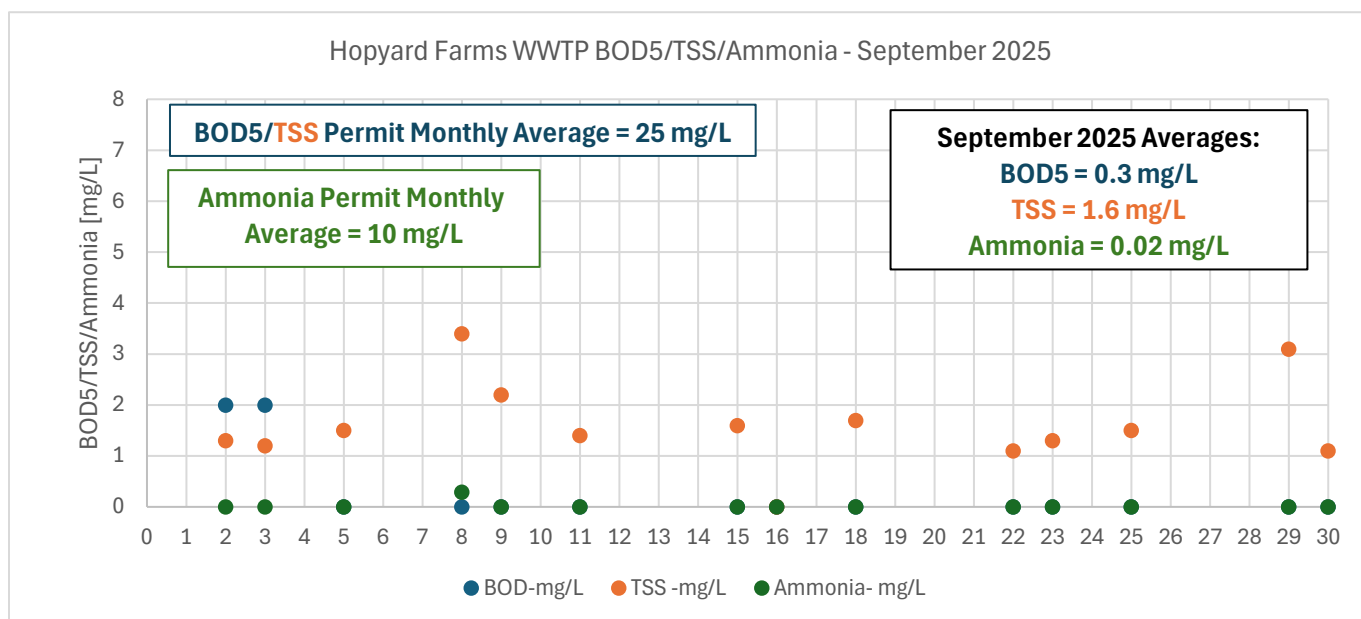
The wastewater treatment facility maintained compliance with all permit-required sampling.

Wastewater Treatment:

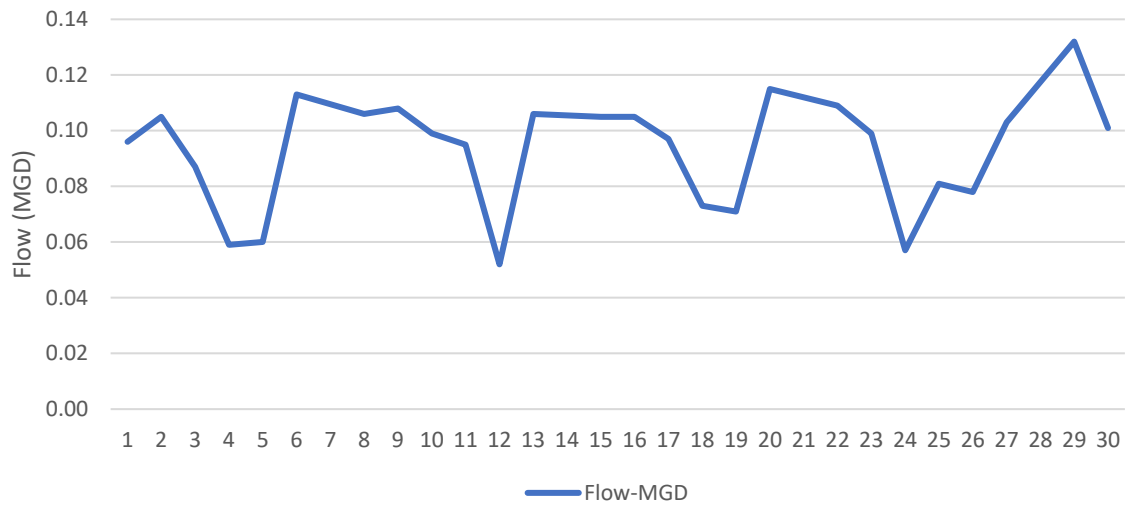
The Hopyard Farms WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.093 MGD for a total monthly discharge of 2.412 MG (26 days with flow).

Data Trending:

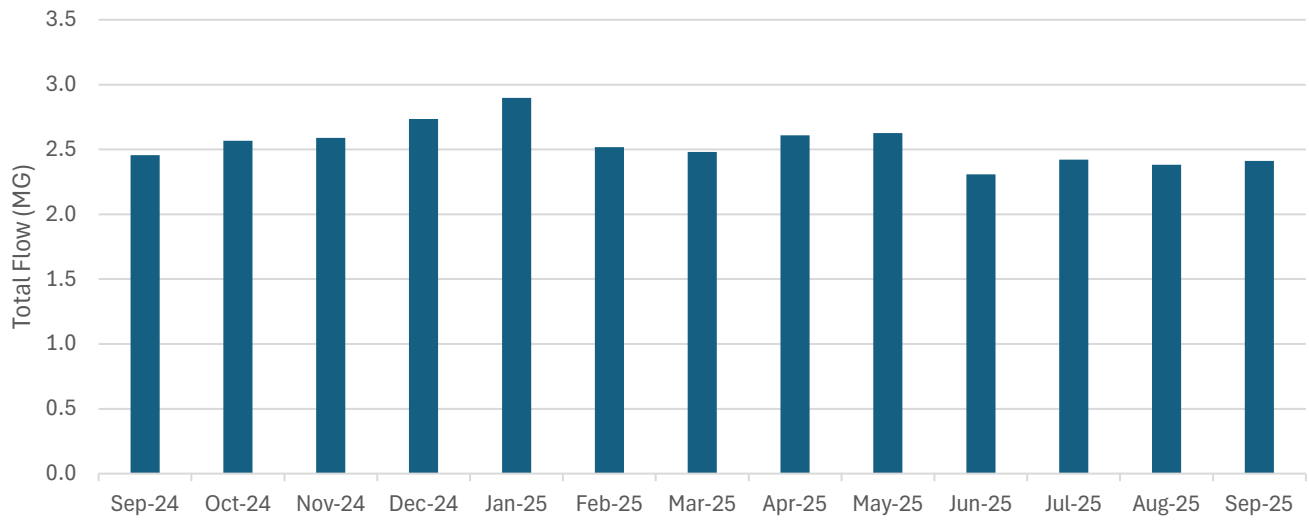
The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.



Hopyard WWTP Flow - September 2025



Hopyard Farms Monthly Flow MG



Purkins Corner WWTP

Effluent Quality:

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

Wastewater Treatment:

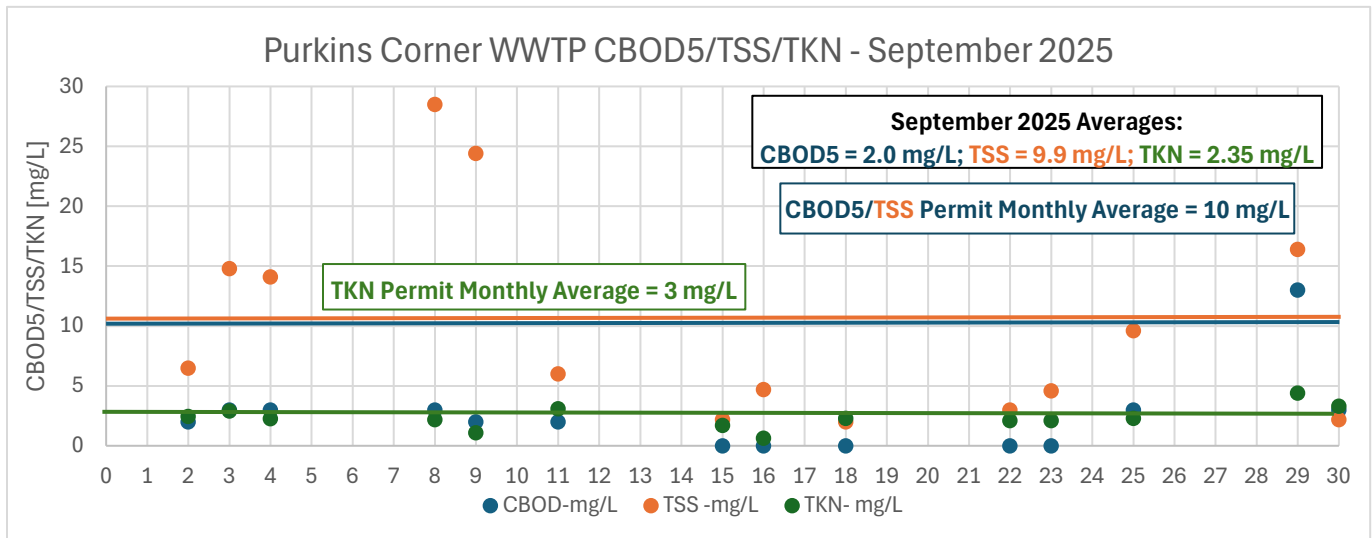
The Purkins Corner WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.063 MGD for a total monthly discharge of 1.885 MG.

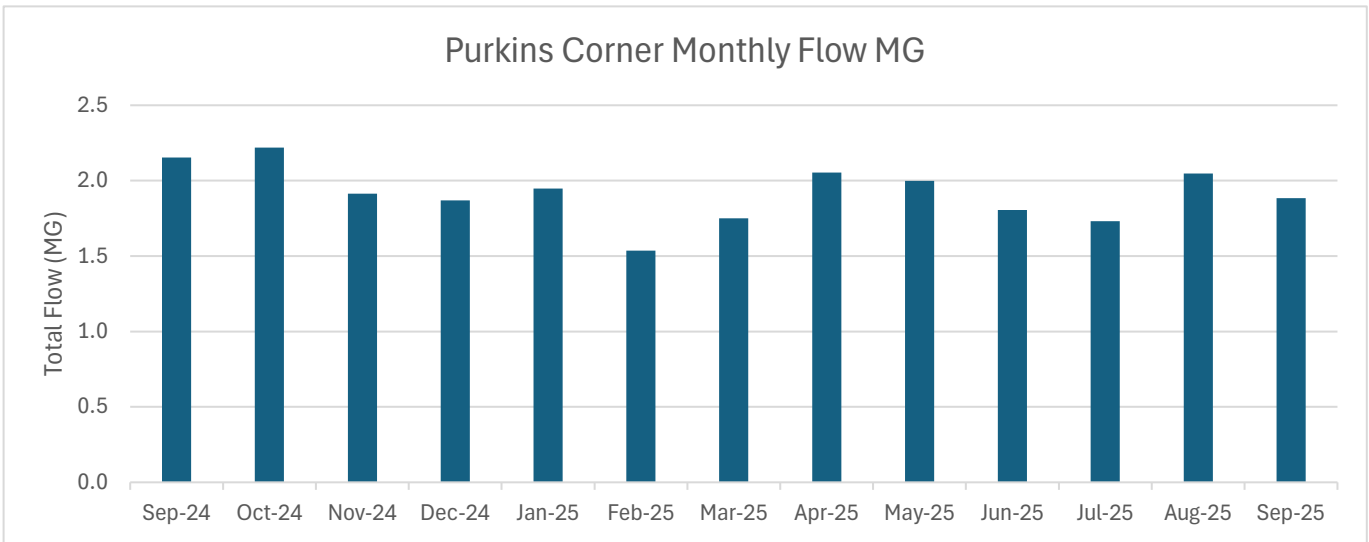
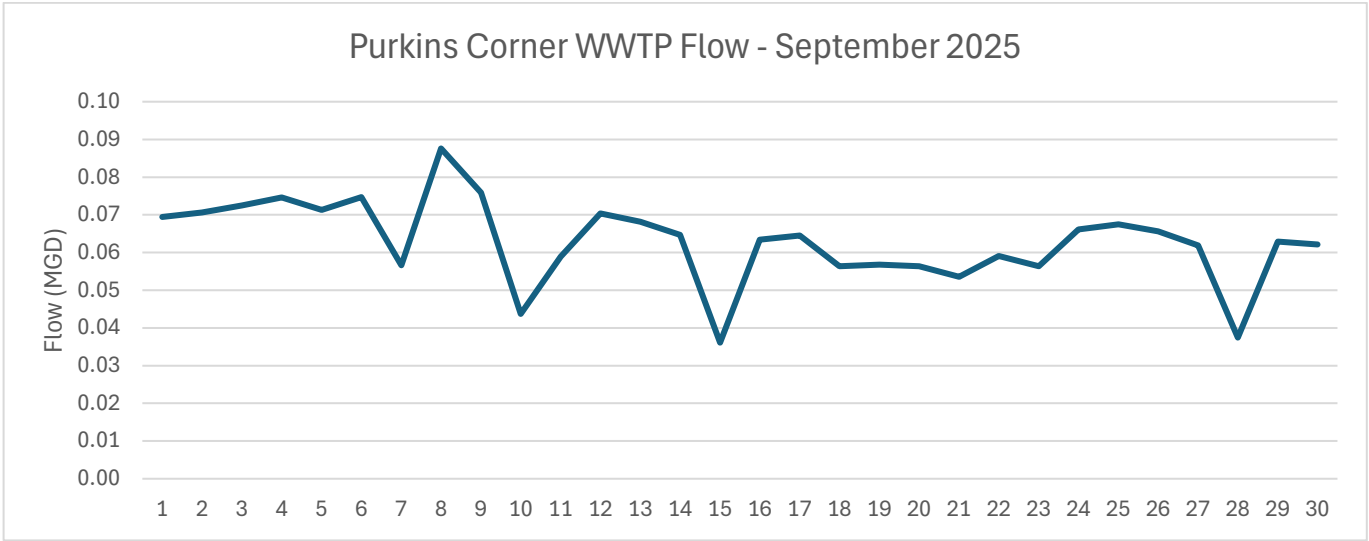
Exceedance Details:

During this monitoring period, the facility experienced elevated E. coli concentrations, which brought the geometric mean to 229n/CML, exceeding the permit limit of 126n/CML. Additionally, TSS the weekly average for the week of September 7th exceeded the permit limit of 15mg/L, with 19.6mg/L. Upon investigation, it is believed the cause of the elevated E. coli concentrations was the daily cleaning of the effluent channel being conducted immediately prior to sample collection. To prevent future occurrences, the operator has been instructed to avoid cleaning the effluent trough immediately prior to sample collection. This measure ensures that sampling reflects true effluent conditions.

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:

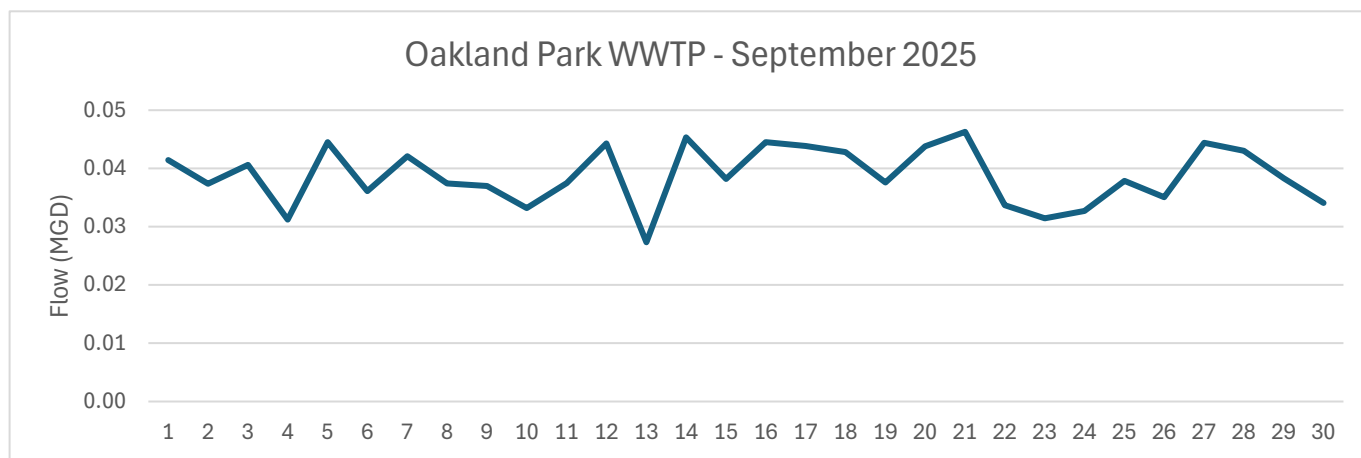
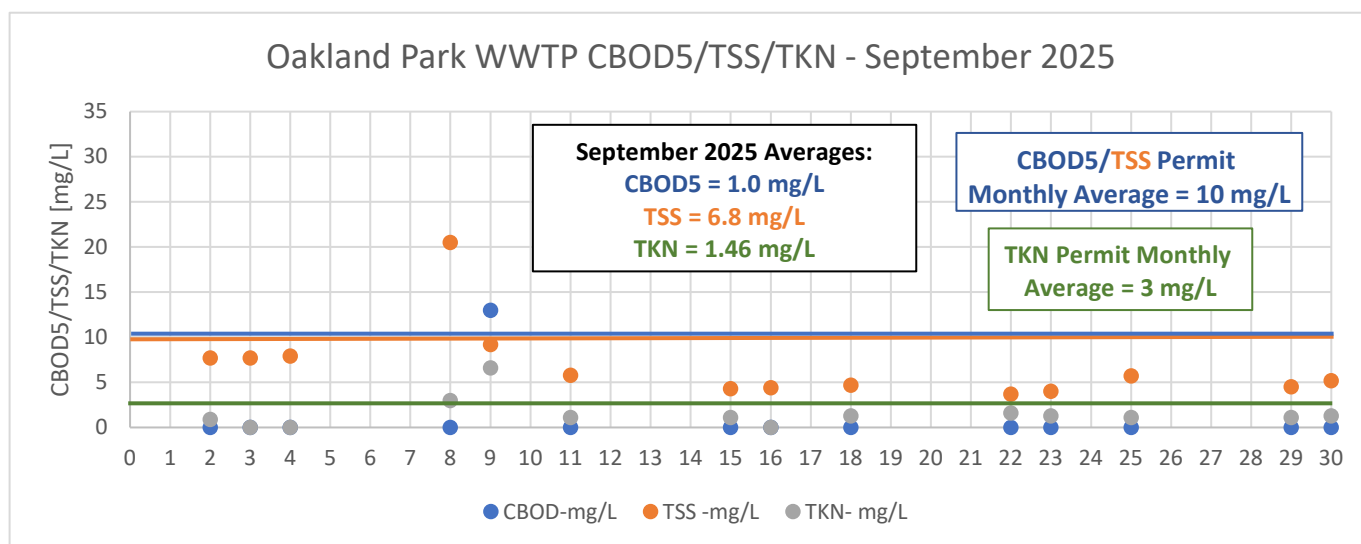
The wastewater treatment facility maintained compliance with all permit-required sampling.

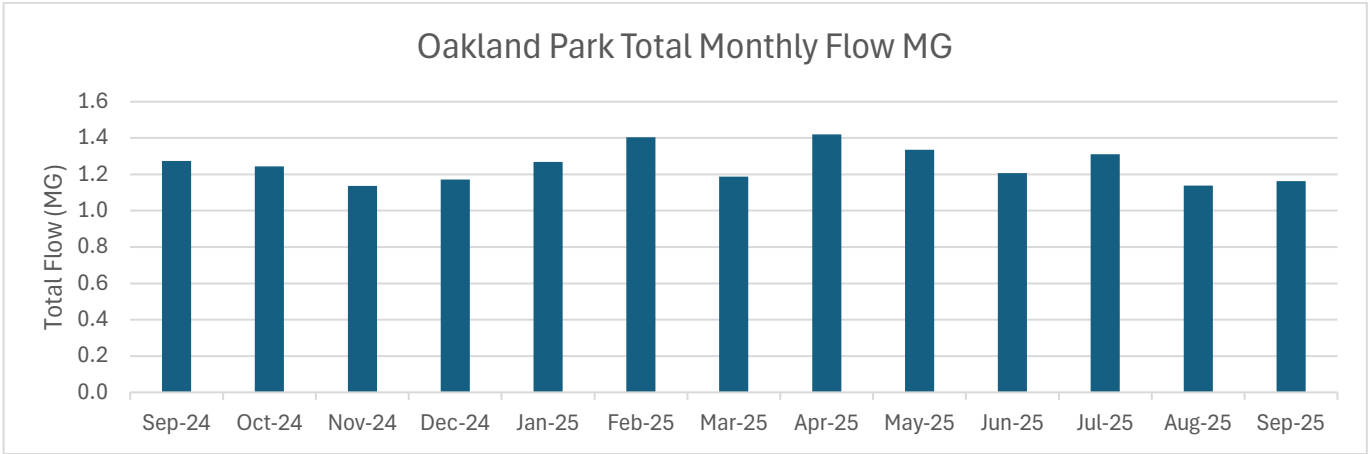
Wastewater Treatment:

The Oakland Park WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.039 MGD for a total monthly discharge of 1.163 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:

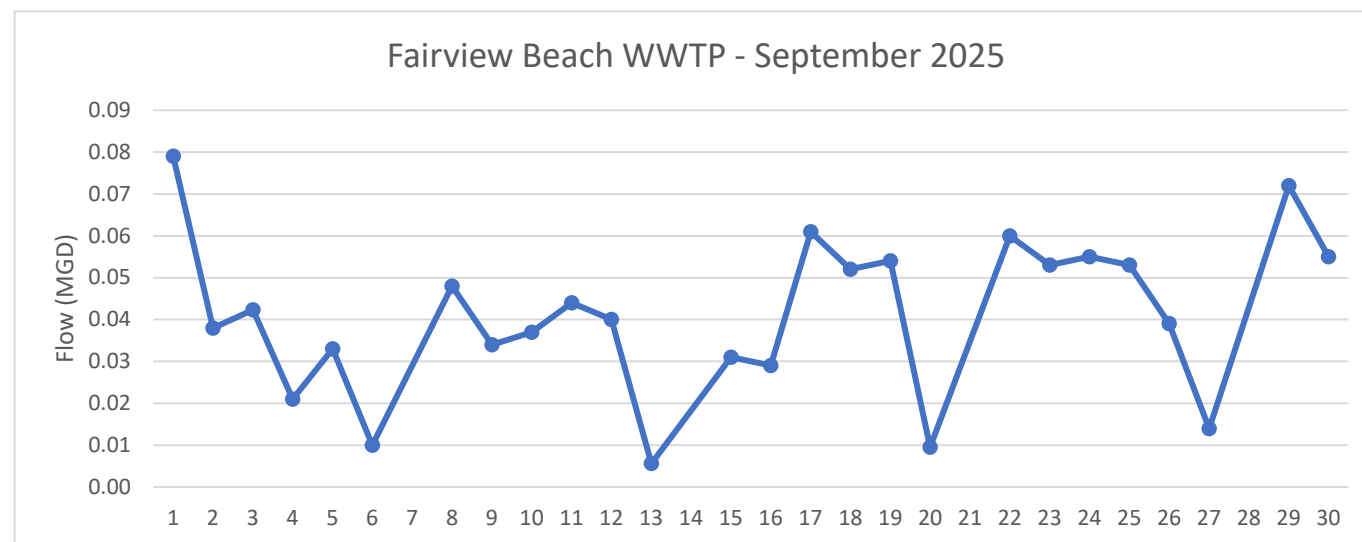
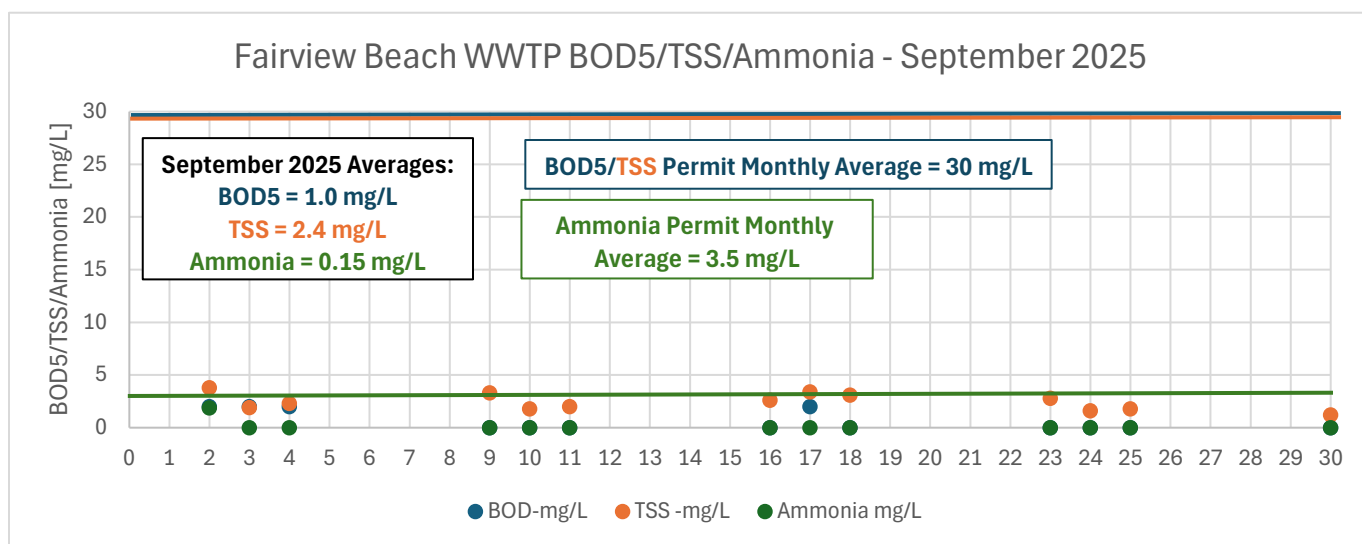
The wastewater treatment facility maintained compliance with all permit-required sampling.

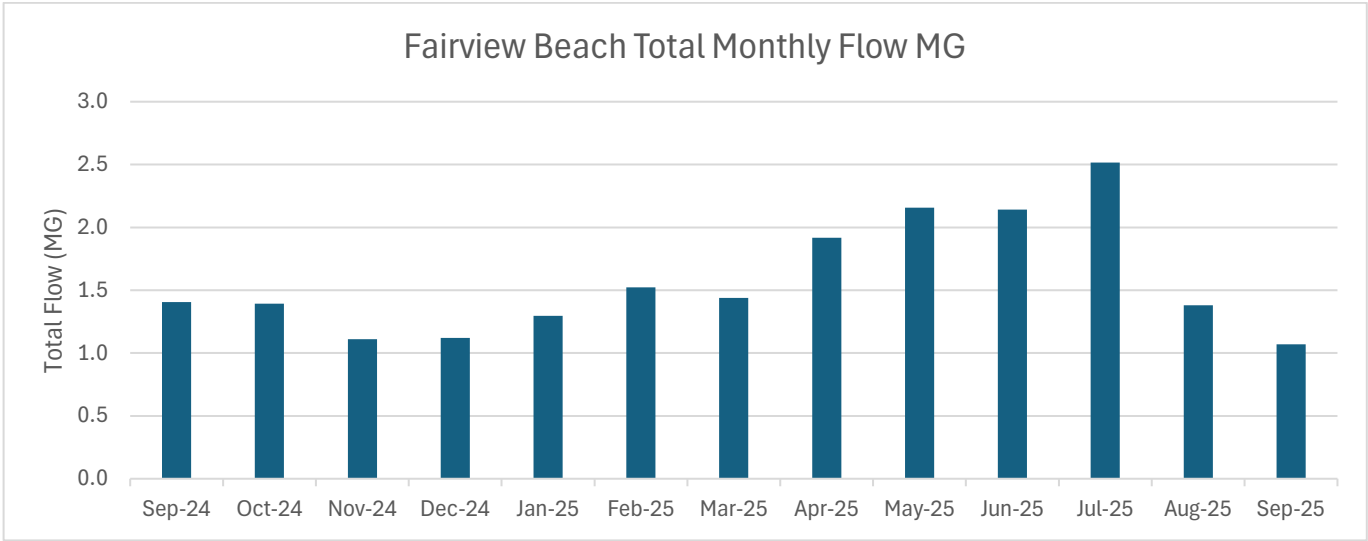
Wastewater Treatment:

The Fairview Beach WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.041 MGD for a total monthly discharge of 1.069 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 |
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