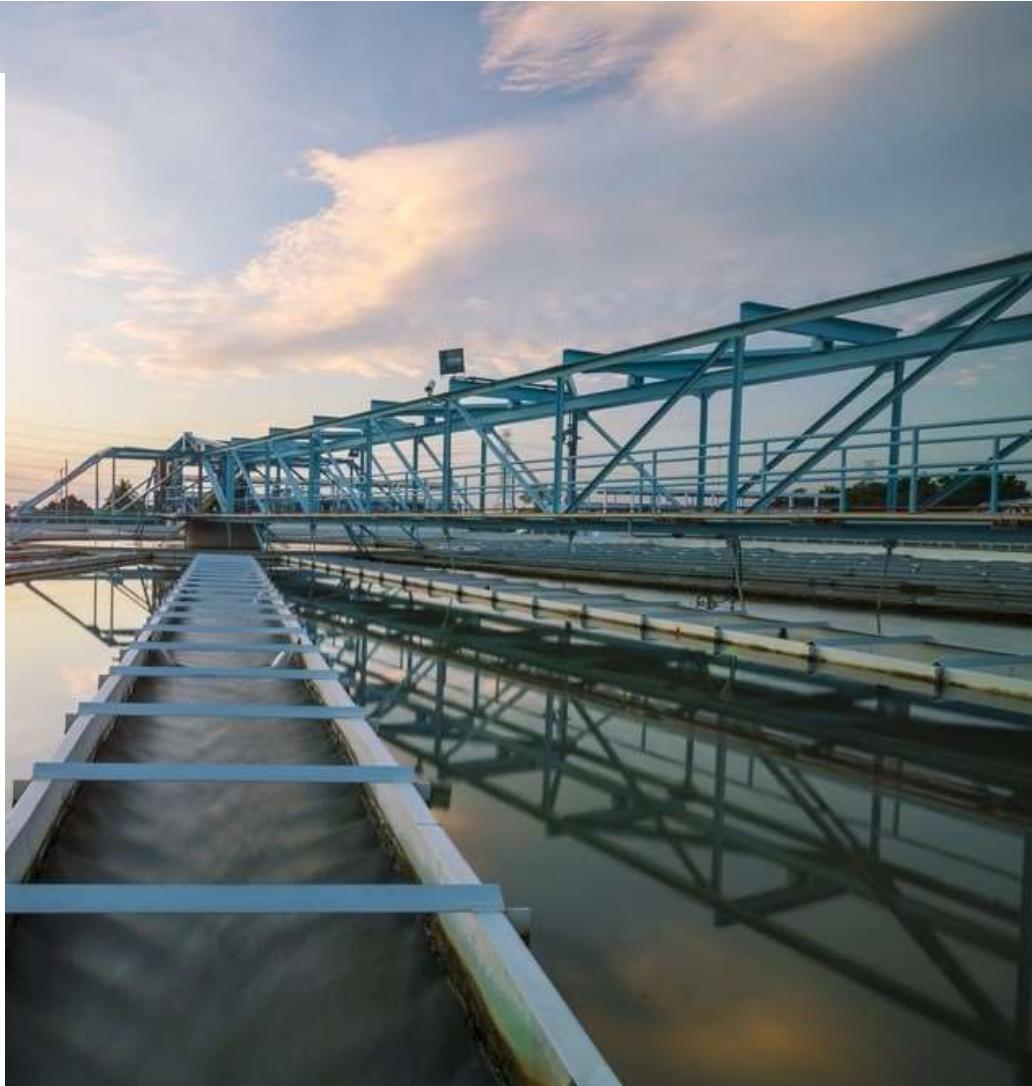


UTILITY REPORT



JUNE 2024

**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

Operational Notes:

- Received 3rd quarter sampling kits.
- Maintaining effective chemical dosing to all well sites.
- Canterbury Well 1 was put back in service. Replaced hypo pump and injectors.
- Continuing to effectively backwash the greensand filters to conserve as much water as possible.

Canterbury Subdivision – PWSID 6099085

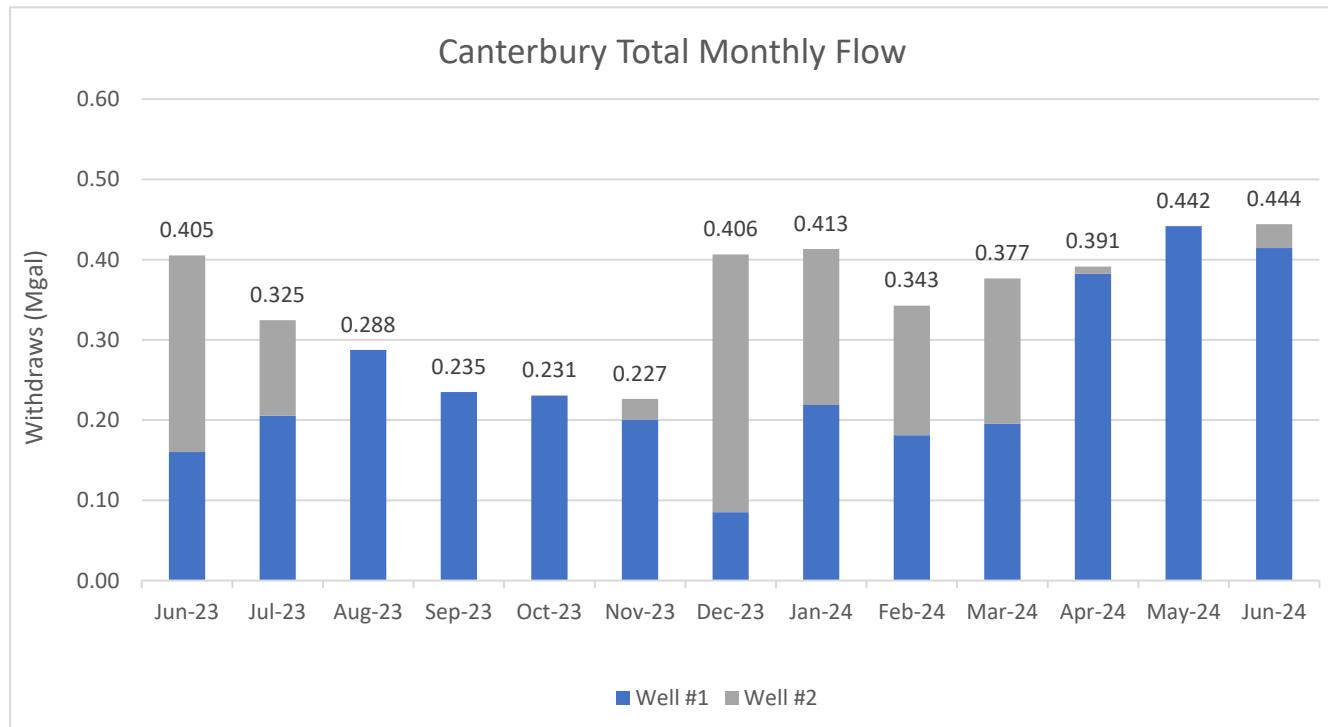
Water Quality:

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
010	12446 Kent Rd.	6/18/2024	Absent

System Production:



Circle – PWSID 6099100

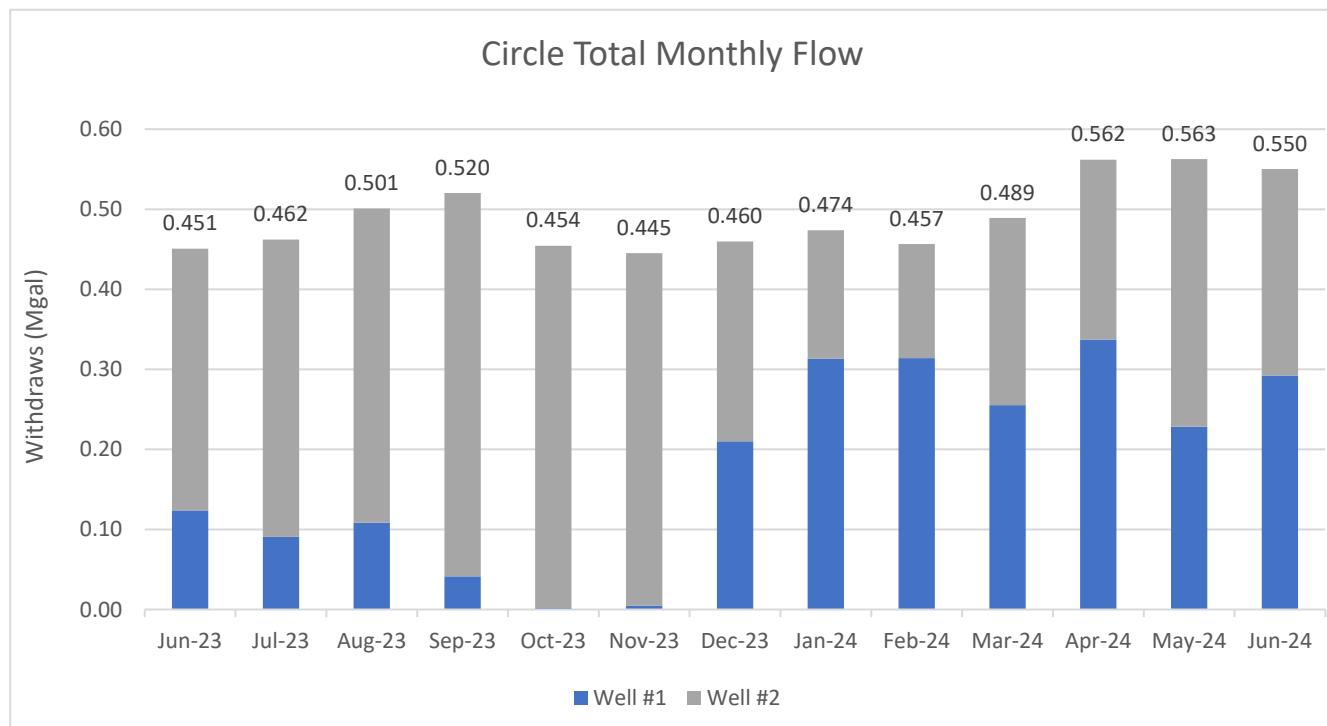
Water Quality:

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.	6/18/2024	Absent

System Production:



KGC Courthouse – PWSID 6099050

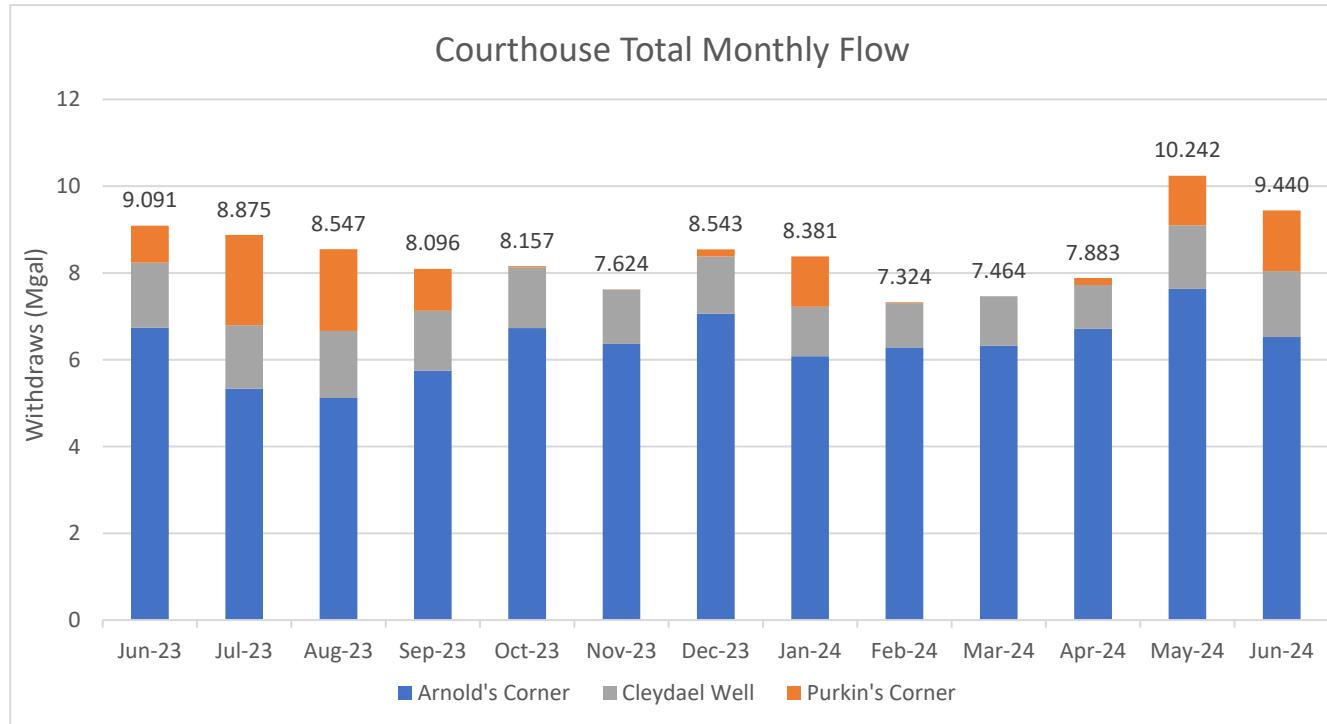
Water Quality:

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	9207 King's Hwy.	6/6/2024	Absent
012	9333 Inaugural	6/11/2024	Absent
011	8352 Kennedy Dr.	6/11/2024	Absent
014	9290 Dahlgren Rd.	6/18/2024	Absent
06	12156 Ward Rd.	6/18/2024	Absent
Water Tower	Arnold's Tower	6/27/24	Absent
Water Tower	Arnold's Tower	6/28/24	Absent

System Production:



Dahlgren – PWSID 6099295

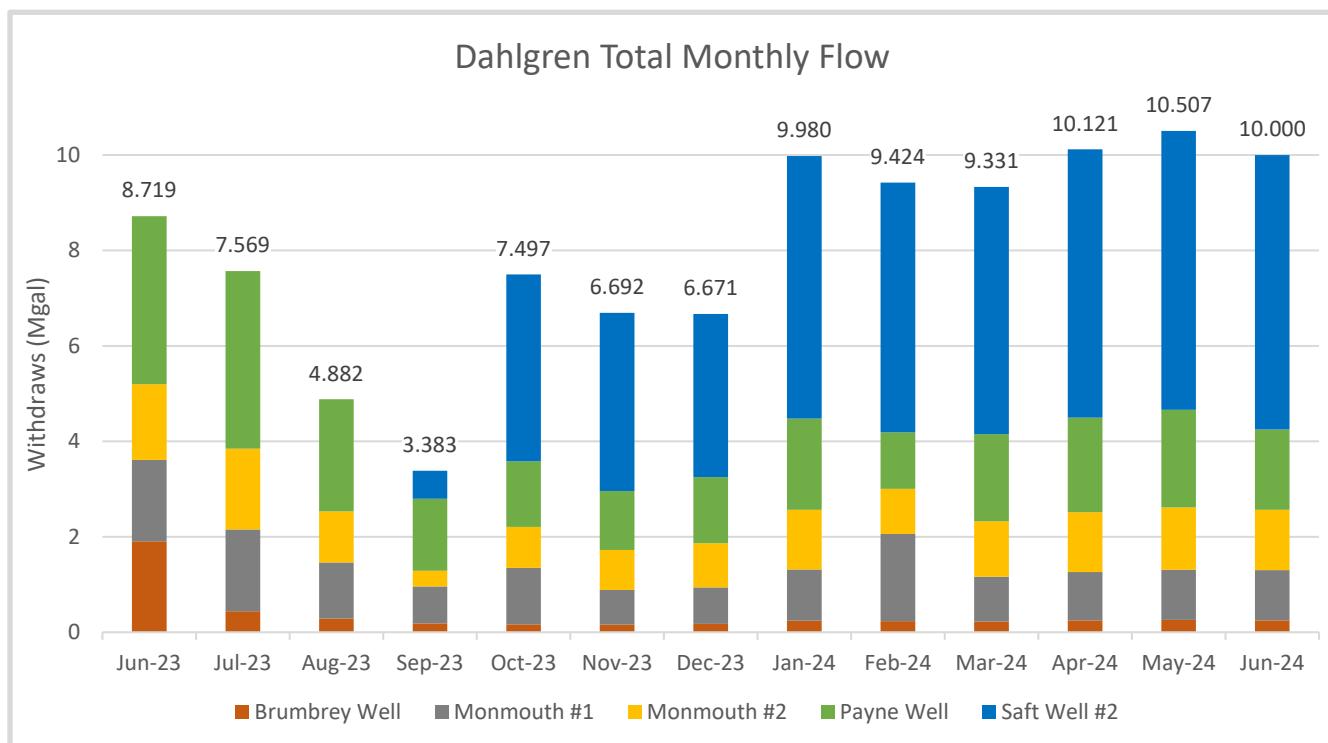
Water Quality:

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
02	5134 Mallard's Landing Dr.	6/25/24	Absent
08U	4471 James Madison Pkwy	6/25/24	Absent
09D	17038 Village Ln.	6/25/24	Absent

System Production:



Fairview Beach – PWSID 6099250

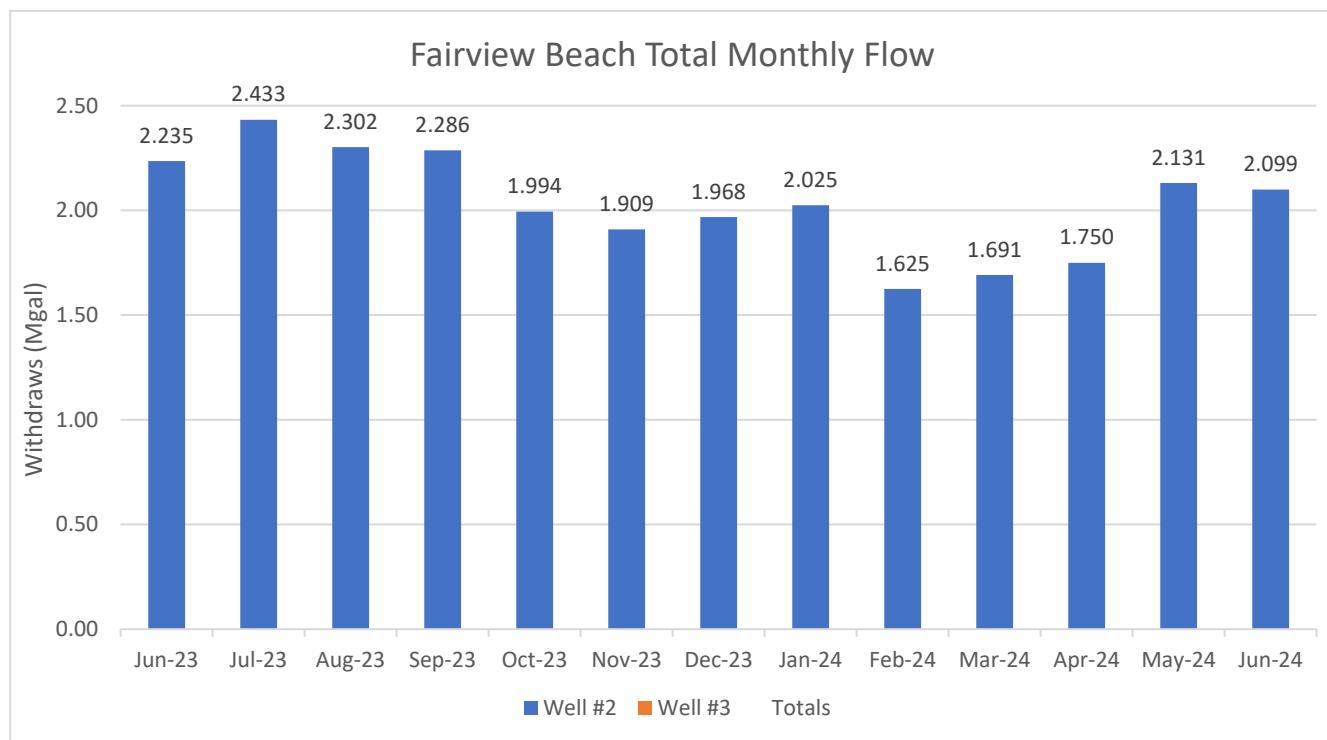
Water Quality:

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
040	6072 Riverview Dr.	6/25/2024	Absent

System Production:



Hopyard Farm – PWSID 6099283

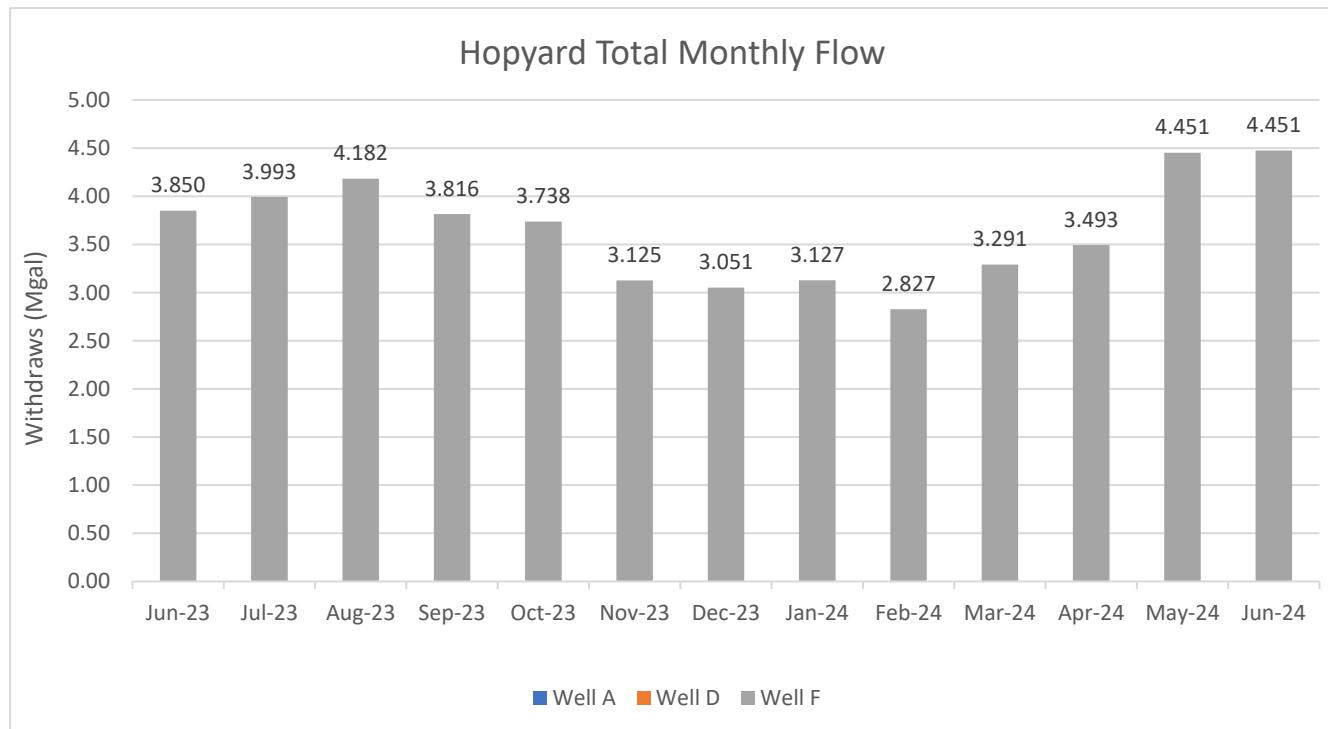
Water Quality:

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
02D	6124 Hawser Dr.	6/11/2024	Absent
050	5217 Spinnaker Ln.	6/11/2024	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	6/11/2024	Absent

System Production:

- Total well yield for June – 11,900 gallons

Ninde's Store – PWSID 6099300

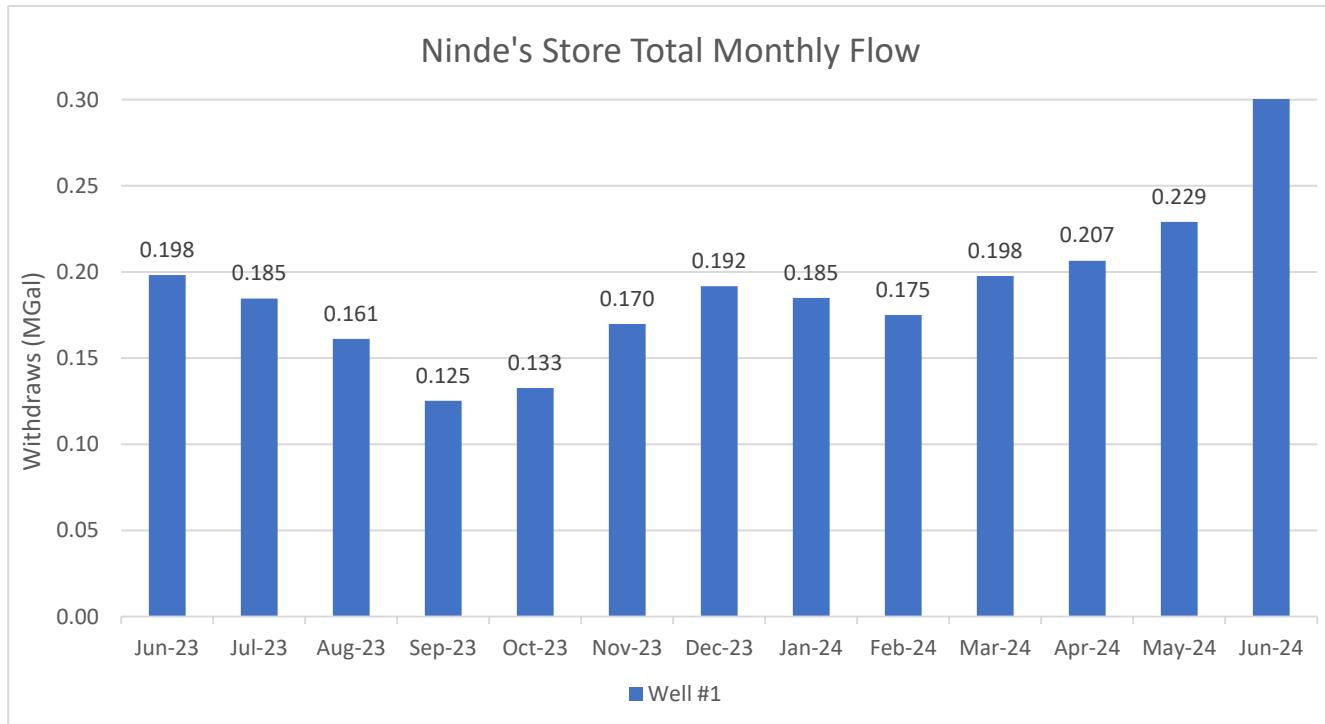
Water Quality:

The Water Treatment facility and distribution system maintained compliance with all required sampling. The monthly routine bacteriological sample taken on 6/18/2024 was positive for Total Coliform, and absent for E.coli. The required repeat samples were collected and all were absent for Total Coliform and E.coli. All bacteriological sample results are shown in the table below.

Bacteriological Analysis:

Location Code	Location Address	Date	Result
010	16195 Ridge Rd.	6/18/2024	Present
01D	16219 Ridge Rd.	6/20/2024	Absent
01R	16195 Ridge Rd.	6/20/2024	Absent
01U	16171 Ridge Rd.	6/20/2024	Absent
RW	Ninde's Store Well	6/20/2024	Absent

System Production:



Oakland Park – PWSID 6099350

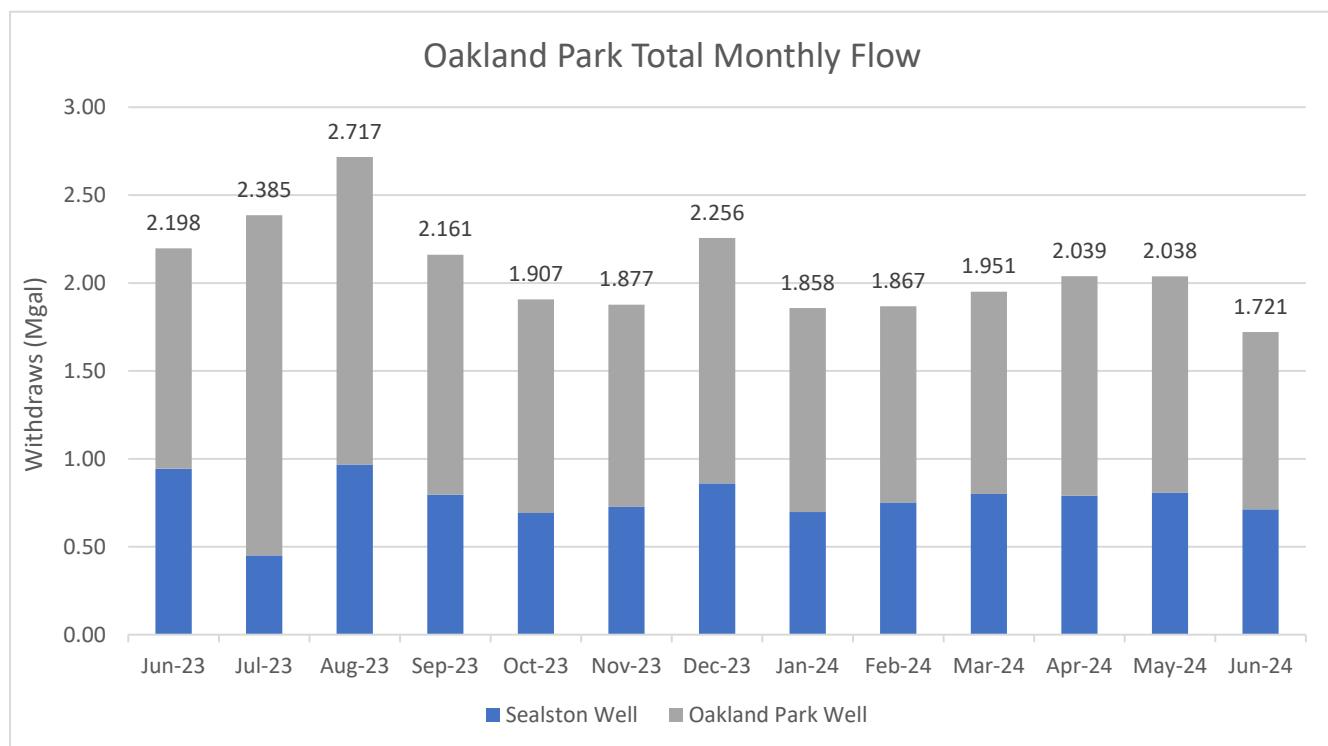
Water Quality:

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
06	8895 Mullen Rd.	6/13/2024	Absent
04	1139 French Ct.	6/25/2024	Absent

System Production:



St. Paul's/Owens – PWSID 6099550

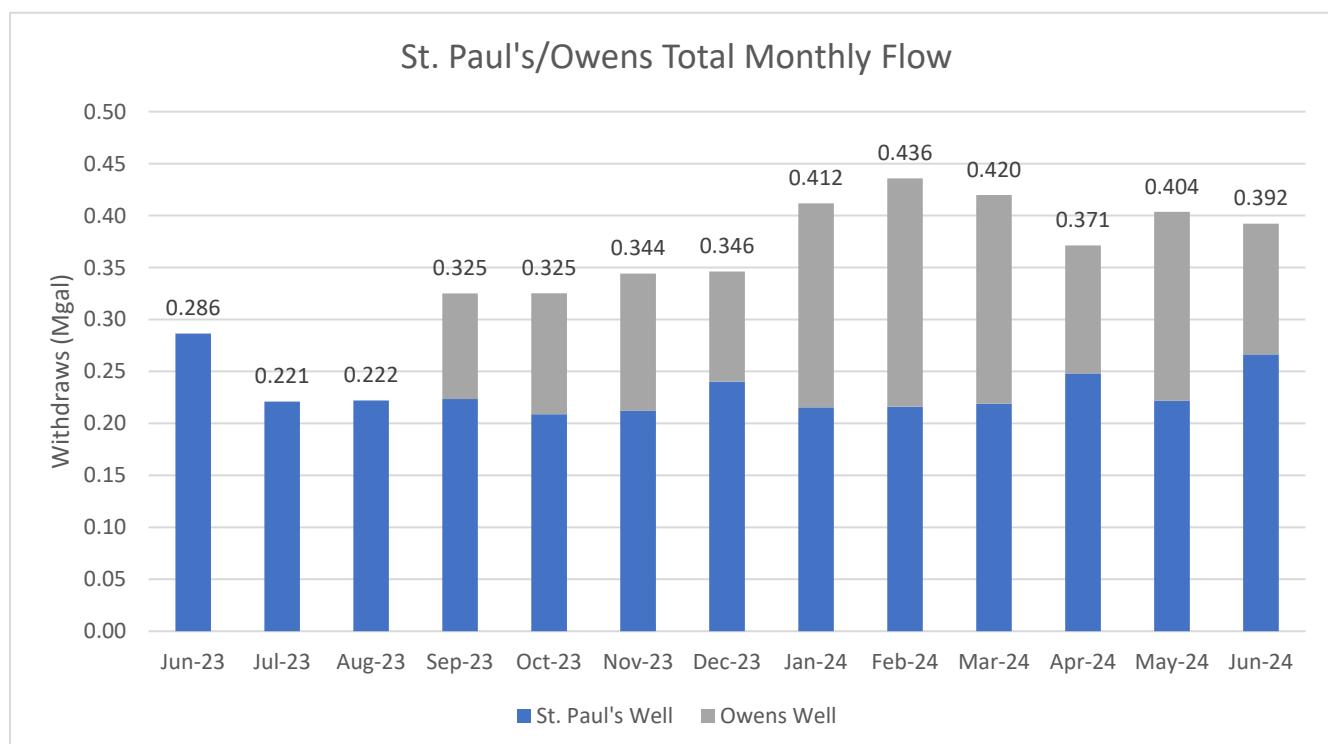
Water Quality:

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
020	5268 Thompson Mill Rd.	6/18/2024	Absent

System Production:



WASTEWATER

Dahlgren WWTP

Effluent Quality:

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

Wastewater Treatment:

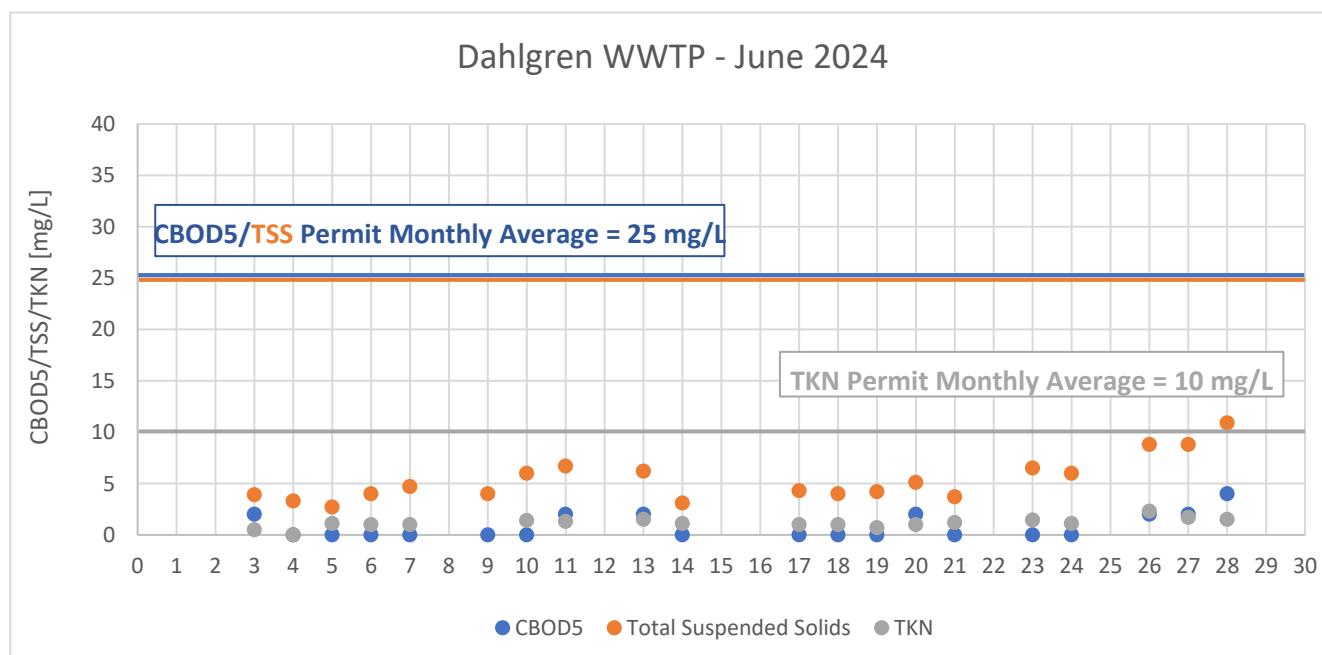
The Dahlgren WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.473 MGD for a total monthly discharge of 14.204 MG.

Operational Notes:

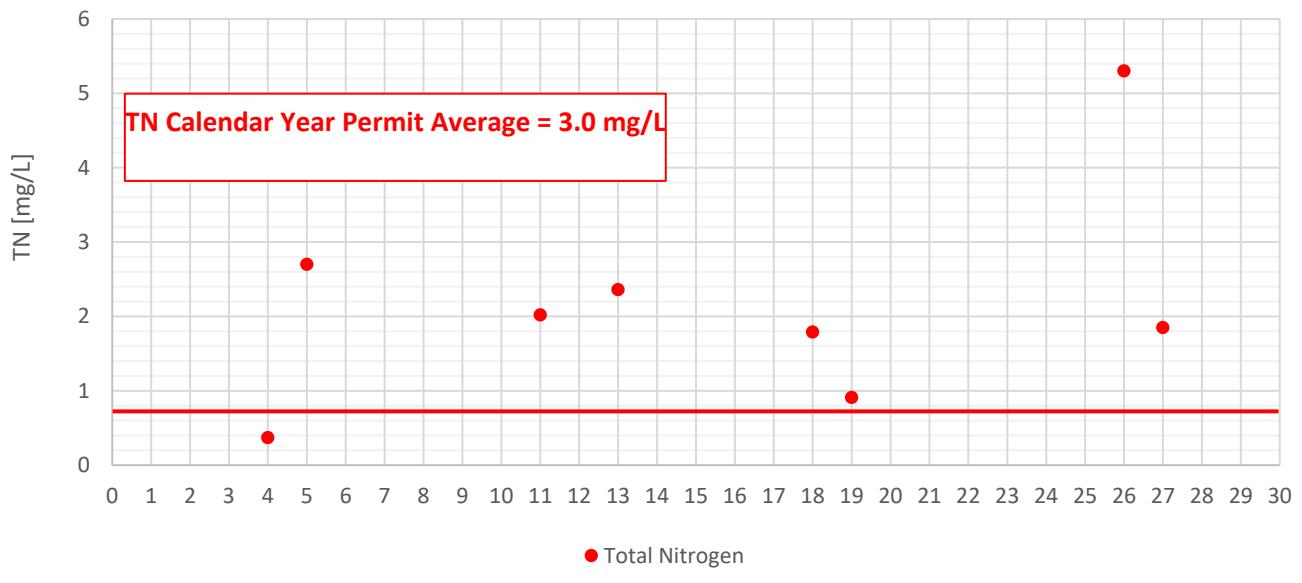
- IES staff performed all routine maintenance on equipment.
- Maintenance worked on reuse water system several times to make the on/off cycle more efficient.
- IES and King George Maintenance teamed up to drain and flush the Bio-Carb tank.
- IES staff discovered a water line leak by the Muffin Monster.
- King George Maintenance repaired a blown seal on the sludge pump for the press.

Data Trending:

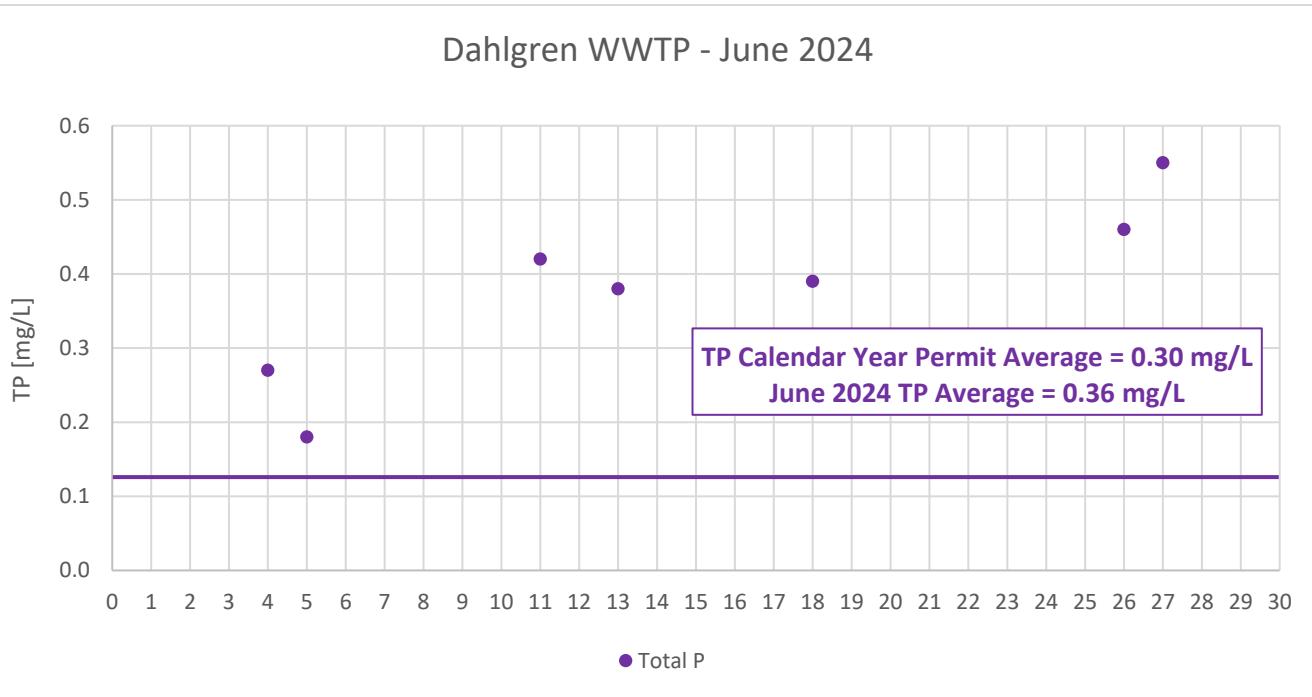
The following charts depict a graphical analysis of effluent quality monitoring and treatment plant daily and total monthly flows.

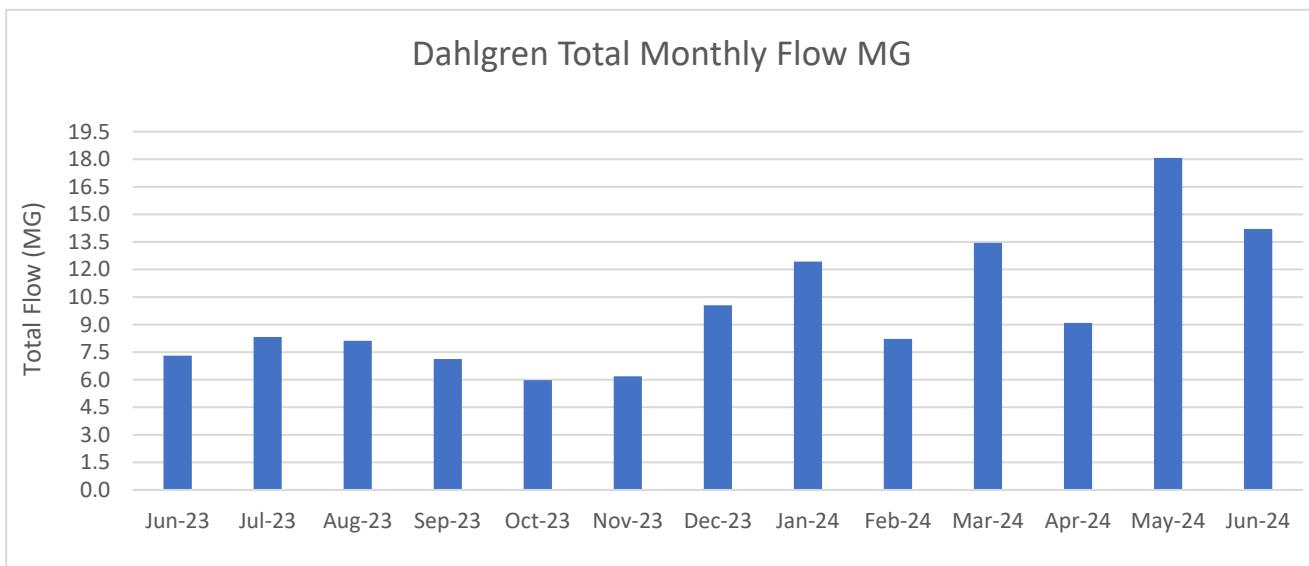
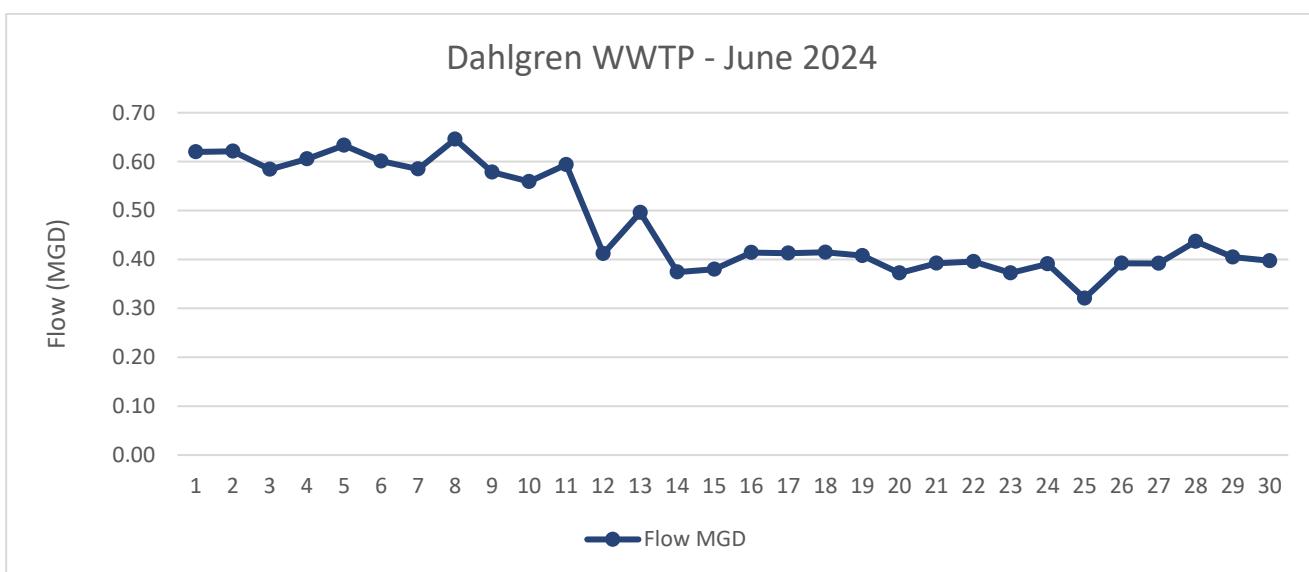


Dahlgren WWTP - June 2024



Dahlgren WWTP - June 2024





Hopyard Farms WWTP

Effluent Quality:

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

Wastewater Treatment:

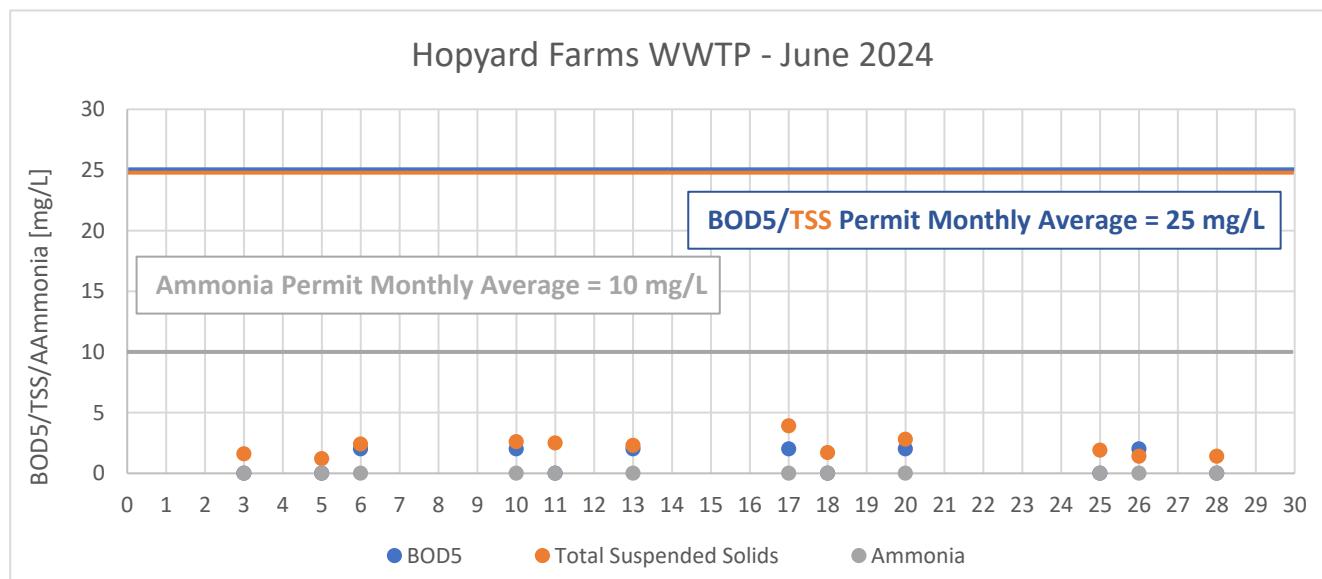
The Hopyard Farms WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.101 MGD for a total monthly discharge of 2.114 MG.

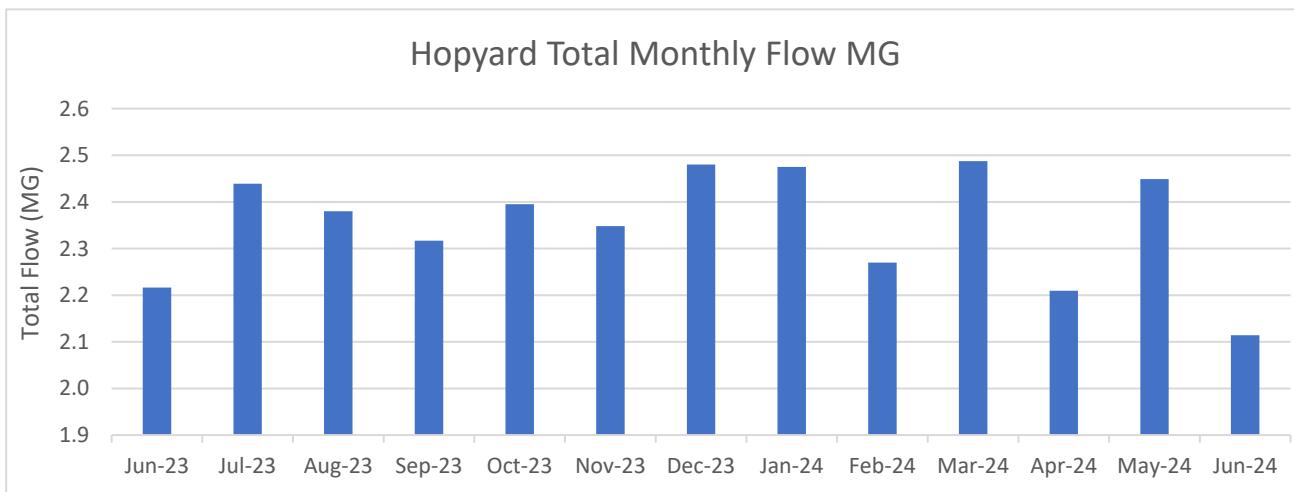
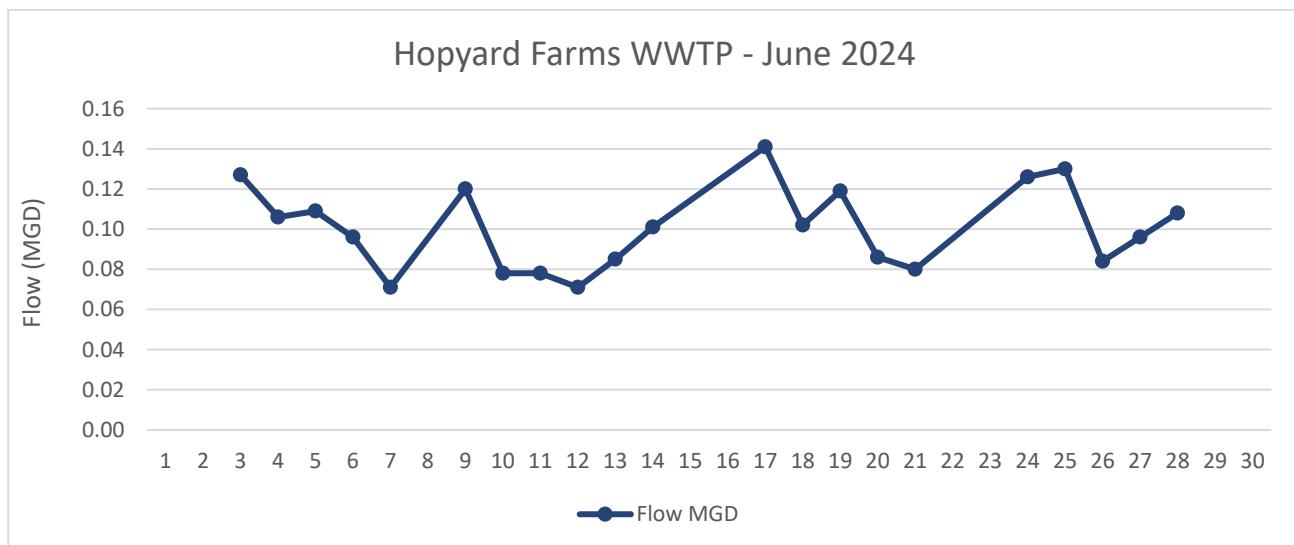
Operational Notes:

- IES staff identified a failed level transducer in SBR 2. King George Maintenance replaced.
- IES performed routine maintenance on blower equipment. Changed oil, and belts.

Data Trending:

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





Purkins Corner WWTP

Effluent Quality:

The wastewater treatment facility maintained compliance with permit-required sampling except for TKN. It was determined that the TKN exceedance was due to influent concentration values being higher than the plant's treatment capabilities coupled with a mixer that has failed. A replacement mixer has been ordered.

Wastewater Treatment:

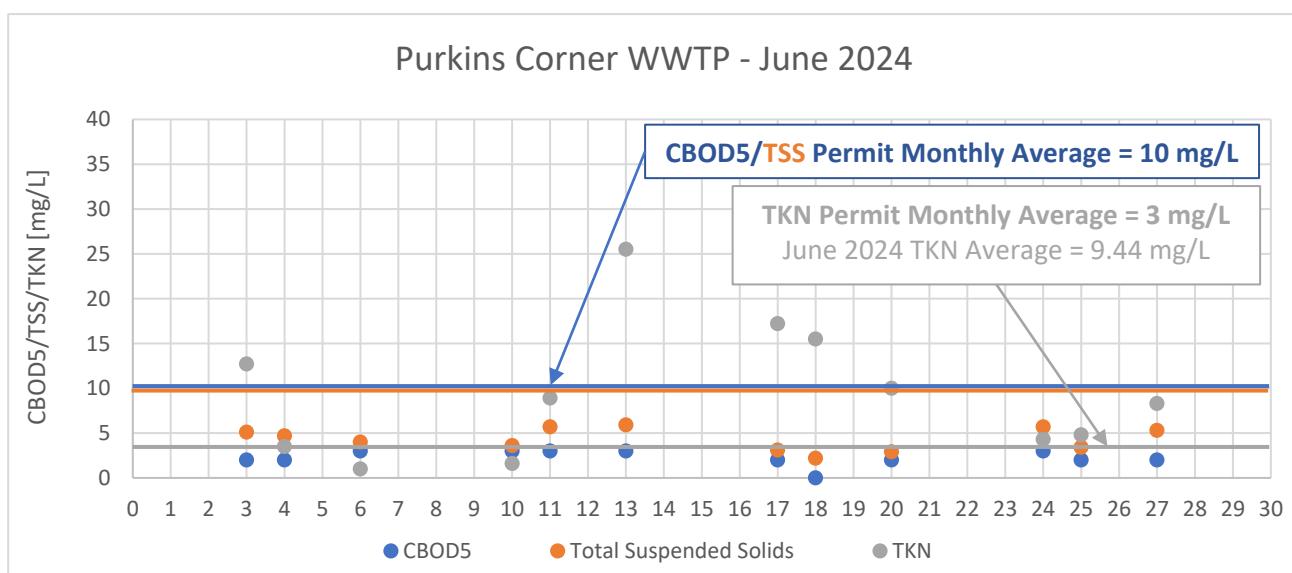
The Purkins Corner WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.052 MGD for a total monthly discharge of 1.571 MG.

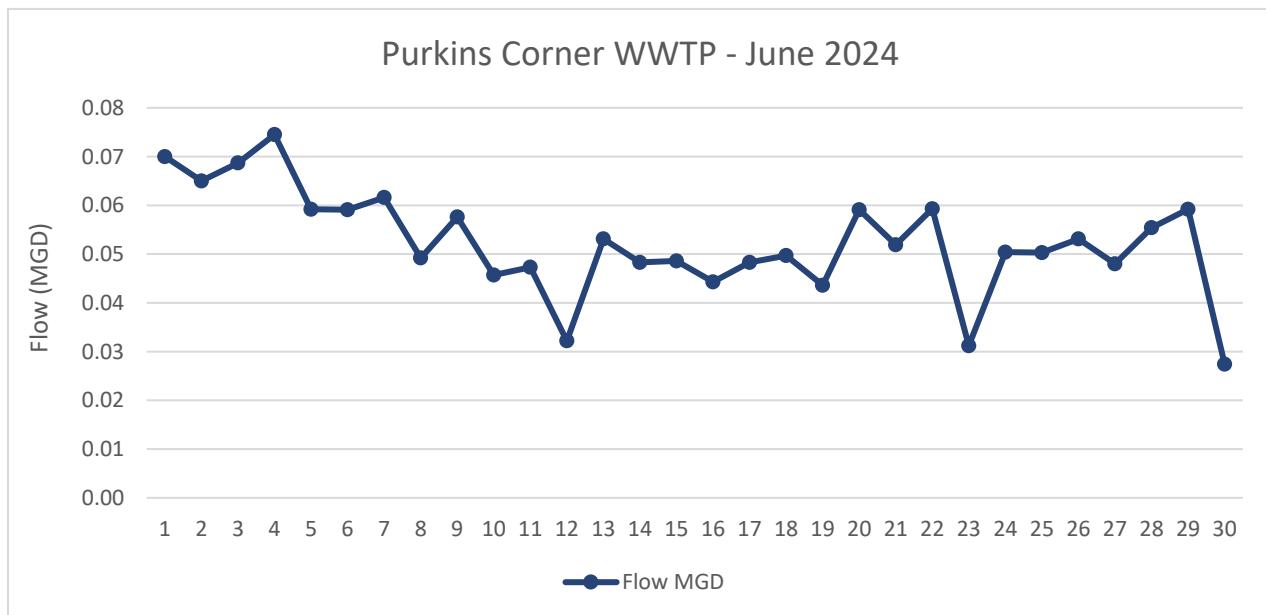
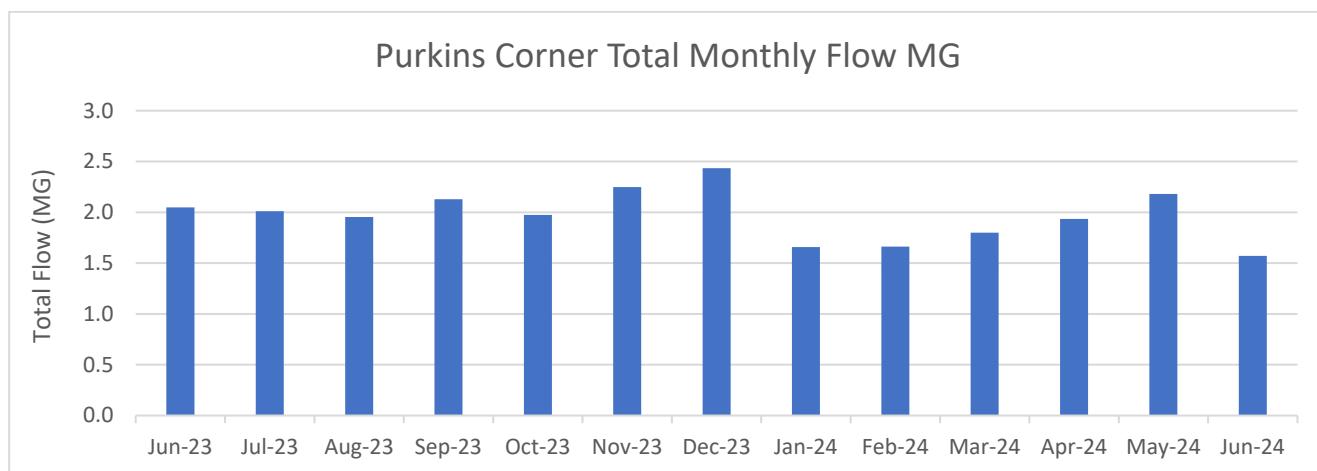
Operational Notes:

- IES staff noticed that the anox tank on B plant had started to experience an overflow and IES promptly responded and corrected the problem. Only lost 50 gallons. IES reported the overflow and treated the area with Lime.
- The influent grinder pump failed, and King George Maintenance repaired.
- Heavy Fats Oils and Grease are still being experienced on loading flowing into the pump.
- IES staff replaced chemical feed lines.
- IES staff discovered the mixer in plant B anox tank failed, King George Maintenance sent off and was not repairable, it will be a 10–12-week lead time for a new mixer.

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 with the exception of D.O. It was determined that the low D.O. values were caused by collecting the samples early in the morning during a period of no forward flow.

Wastewater Treatment:

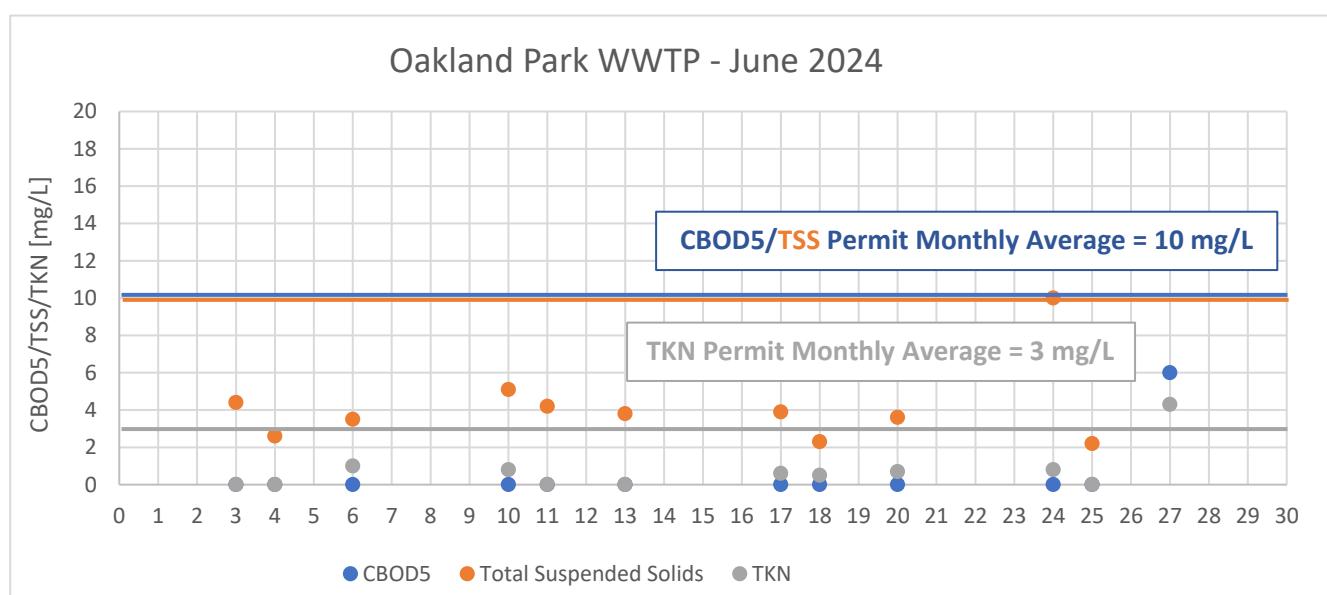
The Oakland Park WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.037 MGD for a total monthly discharge of 1.113 MG.

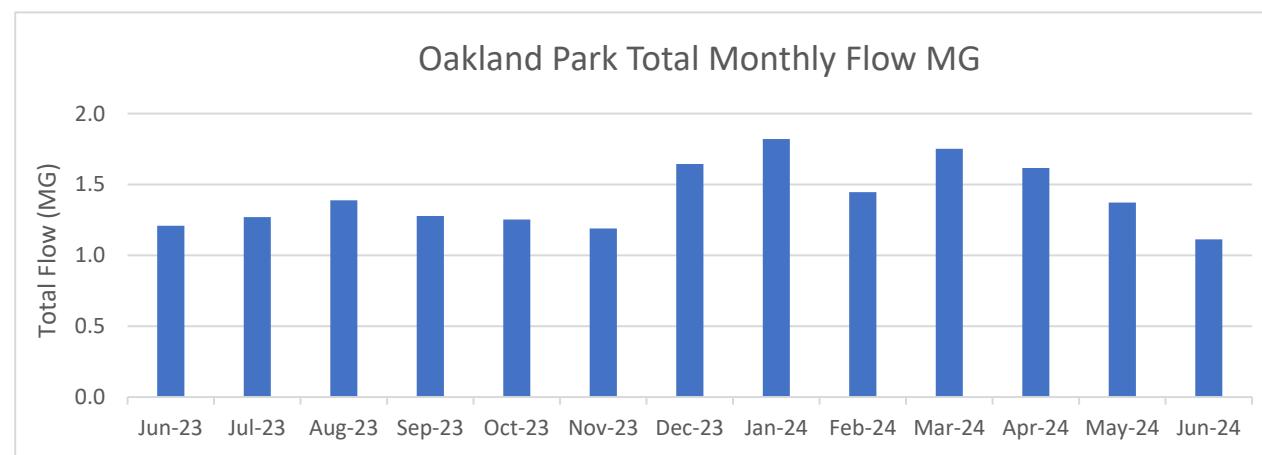
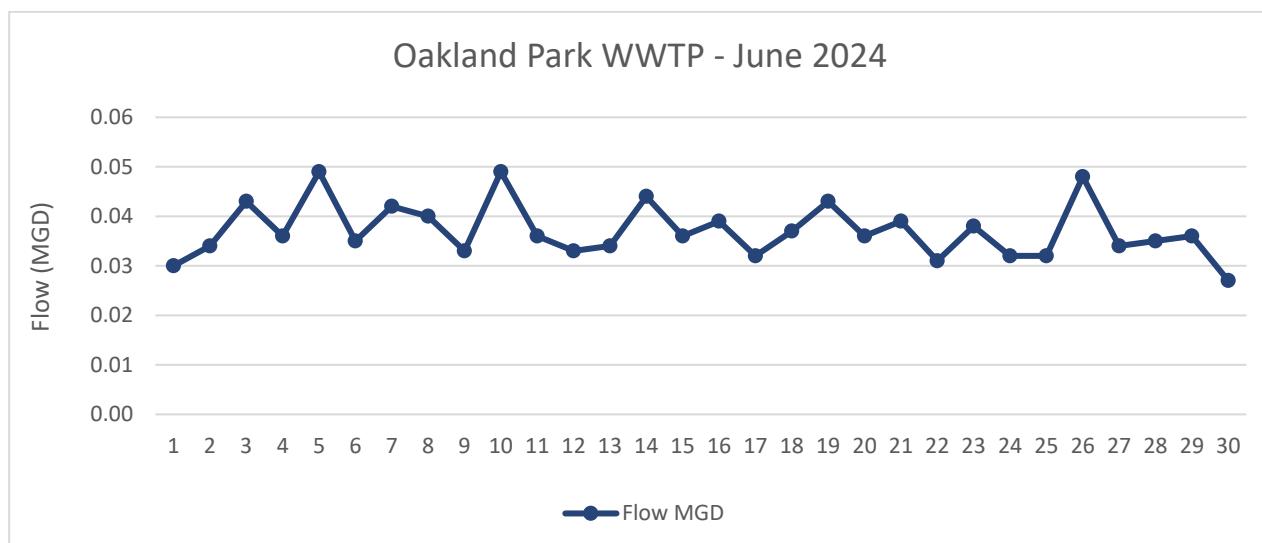
Operational Notes:

- IES staff cleaned out tertiary clarifier for plant A process train.

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 0.102 MGD for a total monthly discharge of 2.539 MG (25 days with flow).

Operational Notes:

- SBR blower valve actuator failed; King George Maintenance repaired.
- King George Maintenance cleared a clogged soda ash line.
- King George Maintenance has replaced half of the light fixtures with LED lights.

Data Trending:

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

