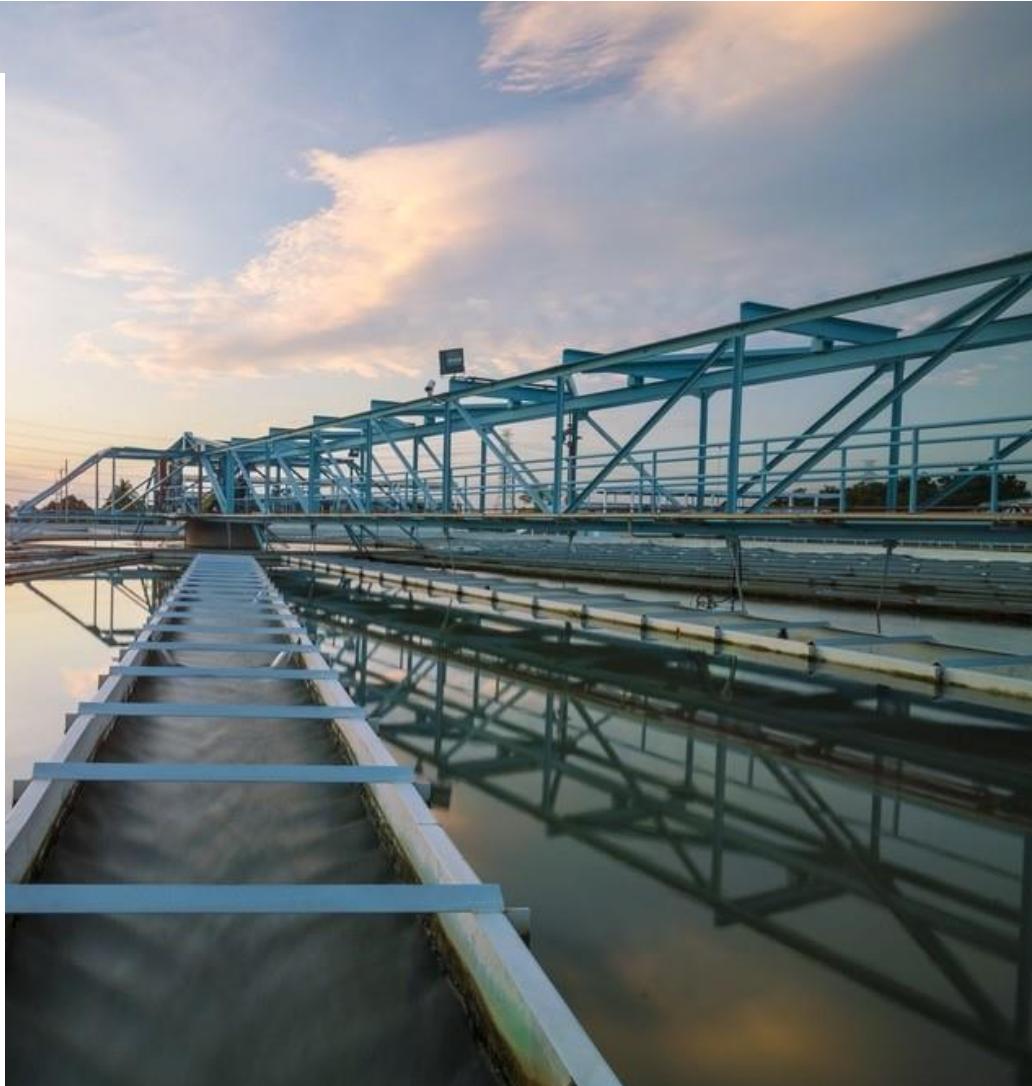


# UTILITY REPORT

---



**AUGUST 2023**

---

**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:

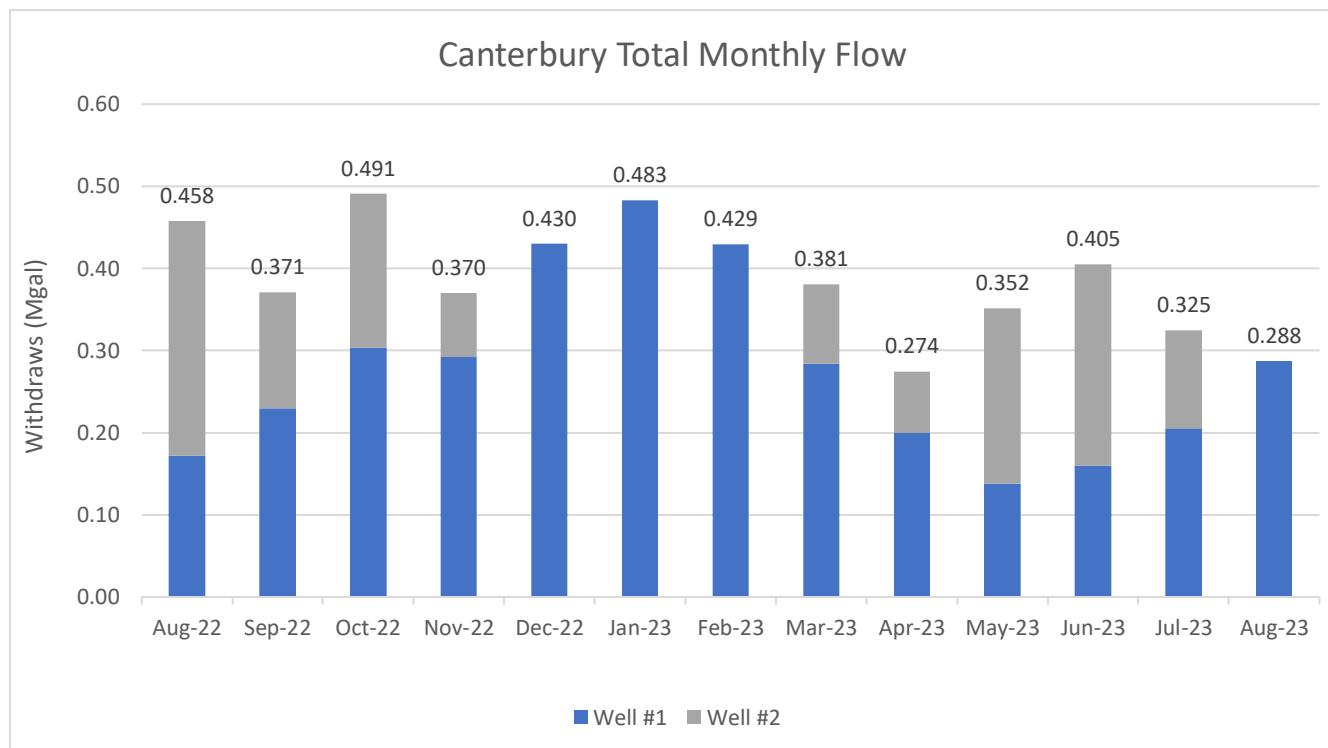
### Bacteriological Analysis

Location Code	Location Address	Date	Result
030	12135 Canterbury Ct.	8/4/2023	Absent

### Operational Notes:

- 8/1: Well 2 meter needs to be replaced

### System Production:



## Circle – PWSID 6099100

### Water Quality

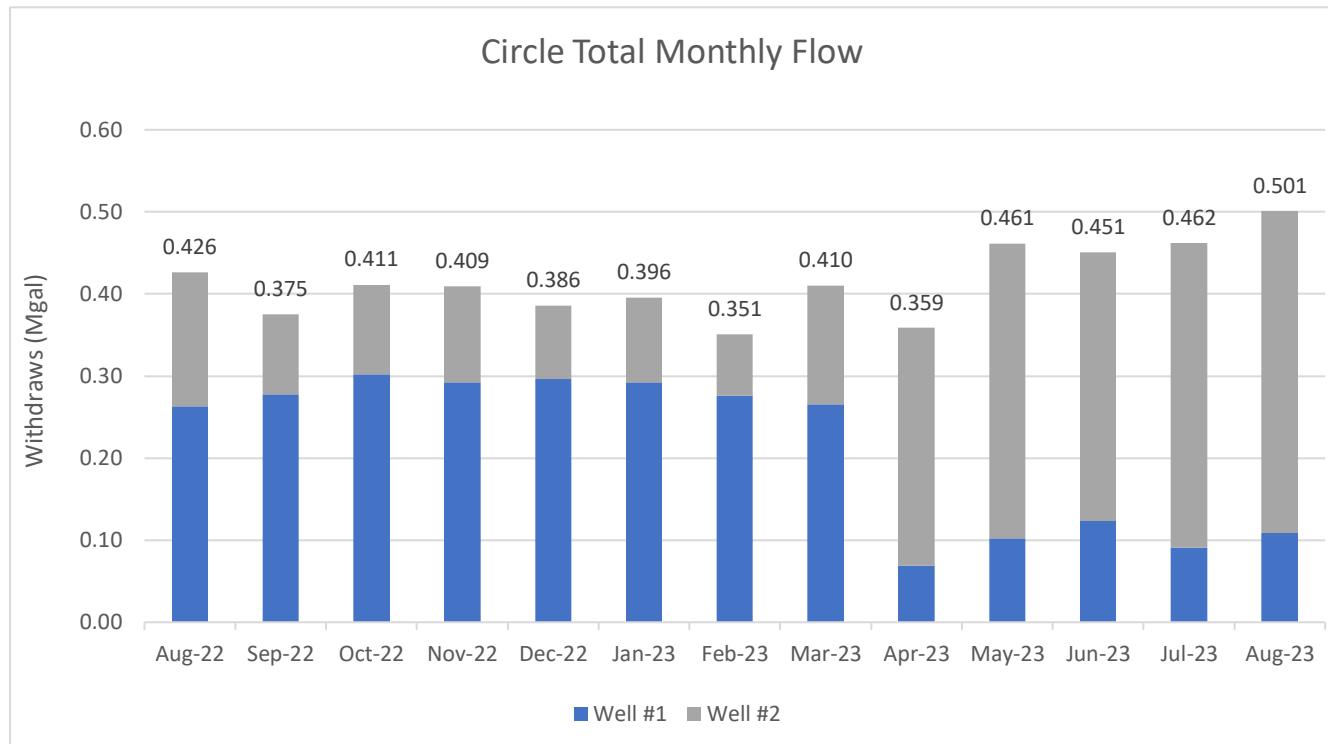
The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below:

### Bacteriological Analysis

Location Code	Location Address	Date	Result
010	11393 Ridge Road	8/4/2023	Absent

**Operational Notes:** N/A

### System Production:



# KGC Courthouse – PWSID 6099050

## Water Quality

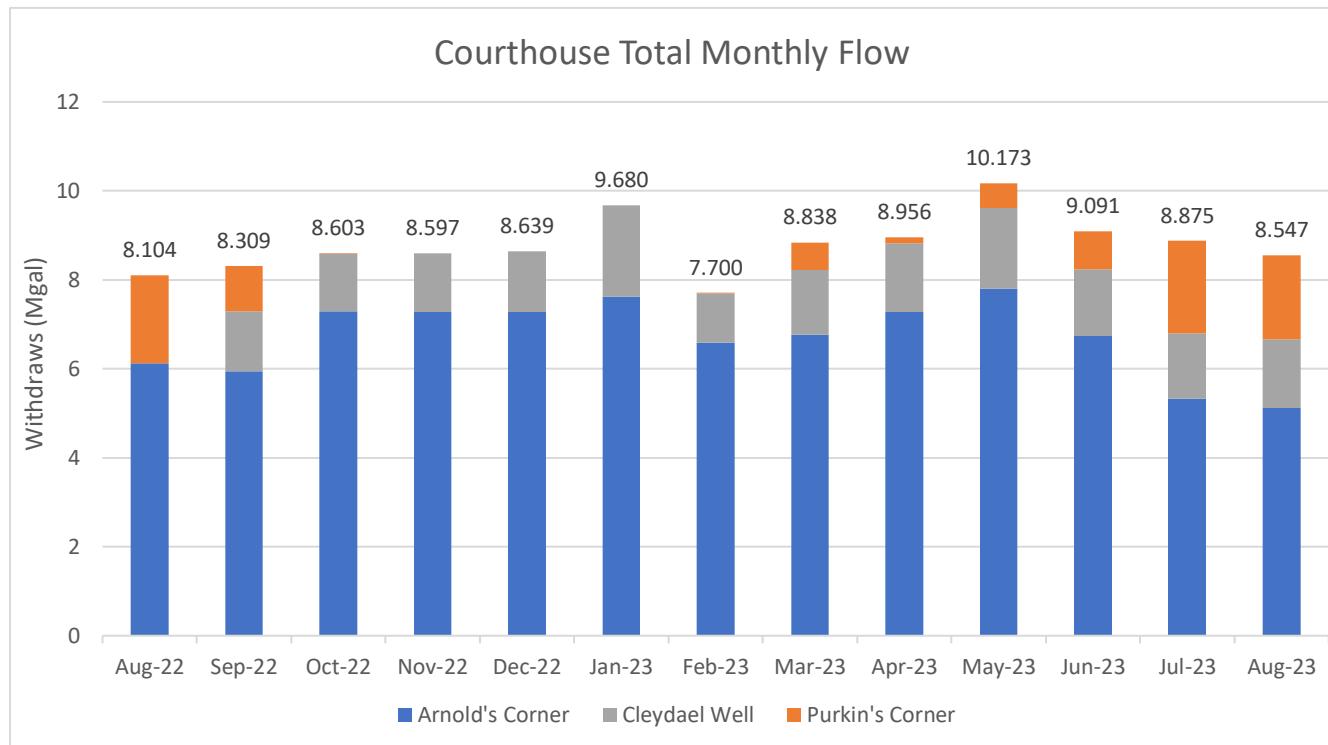
The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below:

## Bacteriological Analysis

Location Code	Location Address	Date	Result
01	10459 Courthouse Drive	8/3/2023	Absent
04	8428 Eden Drive	8/3/2023	Absent
05	10111 King's Highway	8/3/2023	Absent
08	12382 Richard's Ride	8/3/2023	Absent
09	7323 Jackson Drive	8/3/2023	Absent

**Operational Notes:** N/A

## 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:

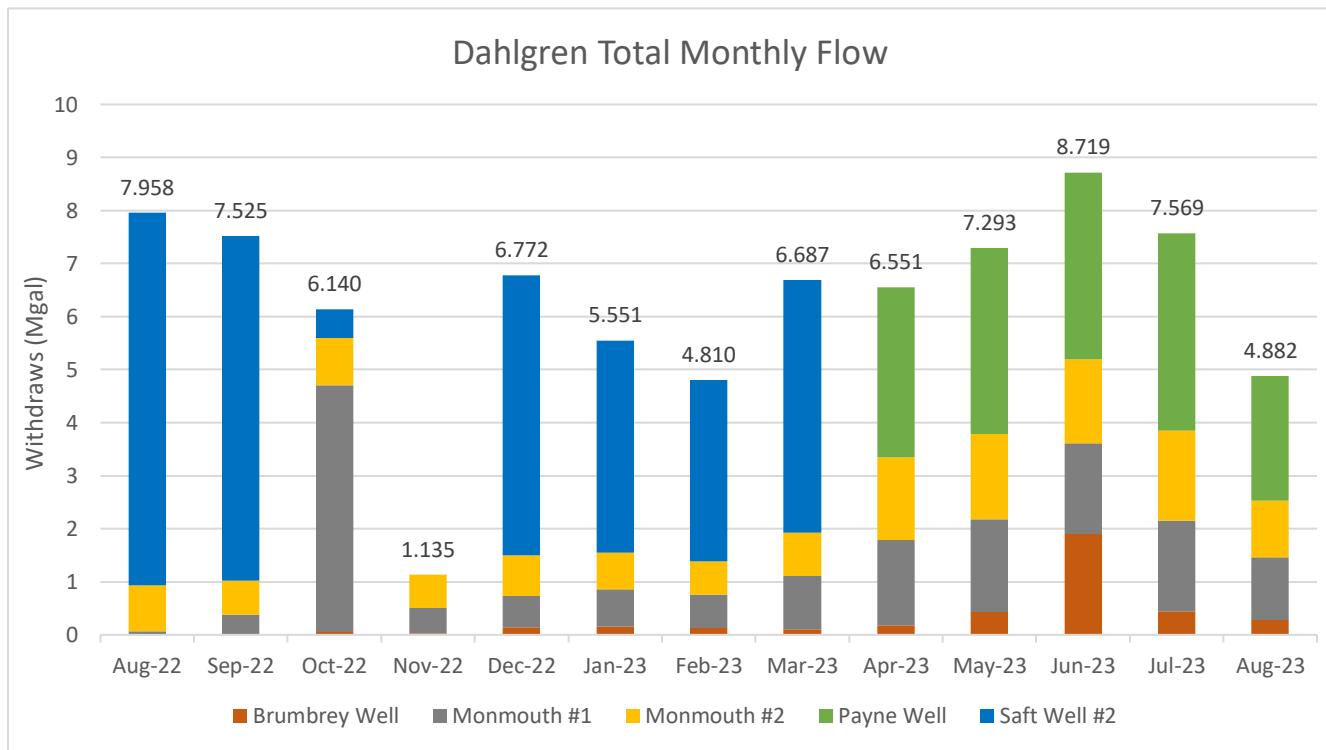
## Bacteriological Analysis

Location Code	Location Address	Date	Result
05	5479 Payne Drive	8/4/2023	Absent
06	4417 Danube Drive	8/4/2023	Absent
07	4378 Savannah Street	8/4/2023	Absent

## Operational Notes:

- 8/4: Payne: Replace chemical pump; Monmouth 2: Well offline due to contactor needing replaced, turned on same day
- 8/10: Saft: Well pump installed, back online
- 8/14: Monmouth 1: Changed kupo kit
- 8/31: Saft: Meter needs replaced

## 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:

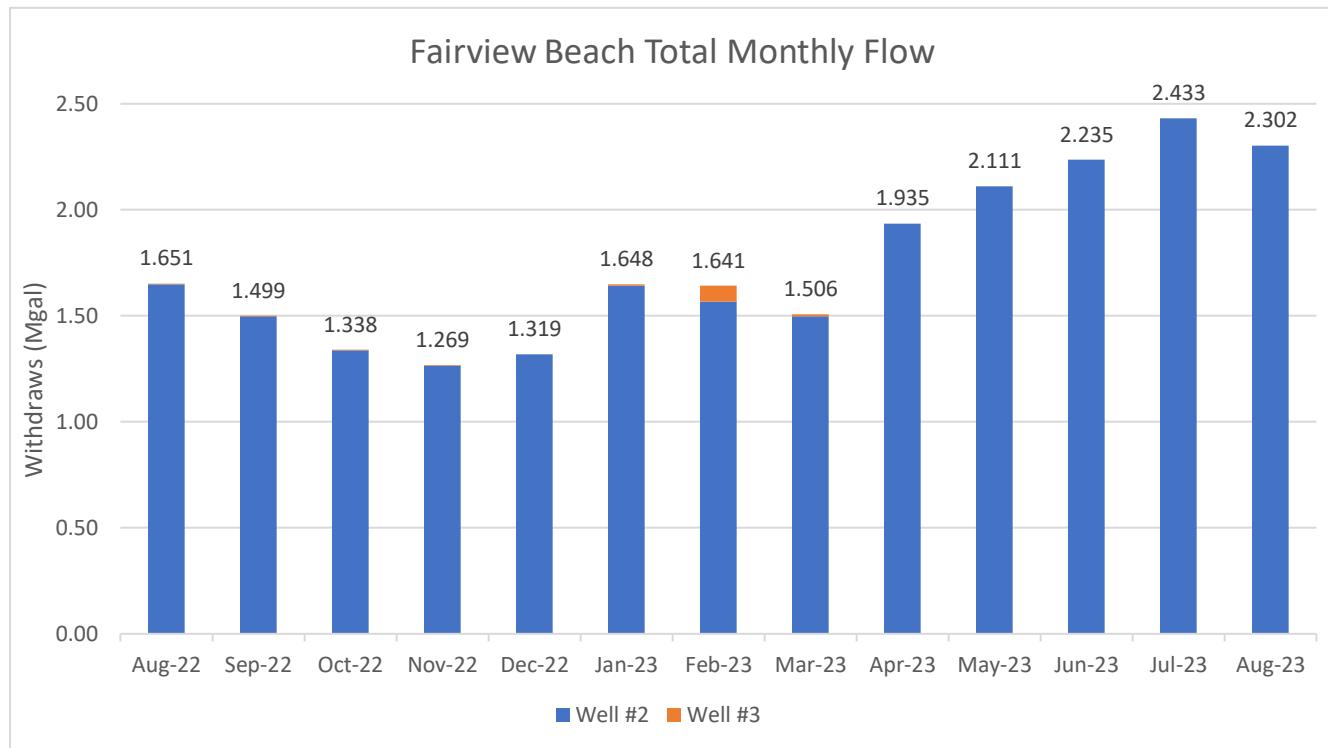
### Bacteriological Analysis

Location Code	Location Address	Date	Result
010	5435 Pavilion Drive	8/4/2023	Absent
050	6023 Marineview Drive	8/4/2023	Absent

### Operational Notes:

- 8/1: Well 3 offline
- 8/3, 11, 14, 17, 24, 28, 31: Well 2A: Backwash 1&2

### 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:

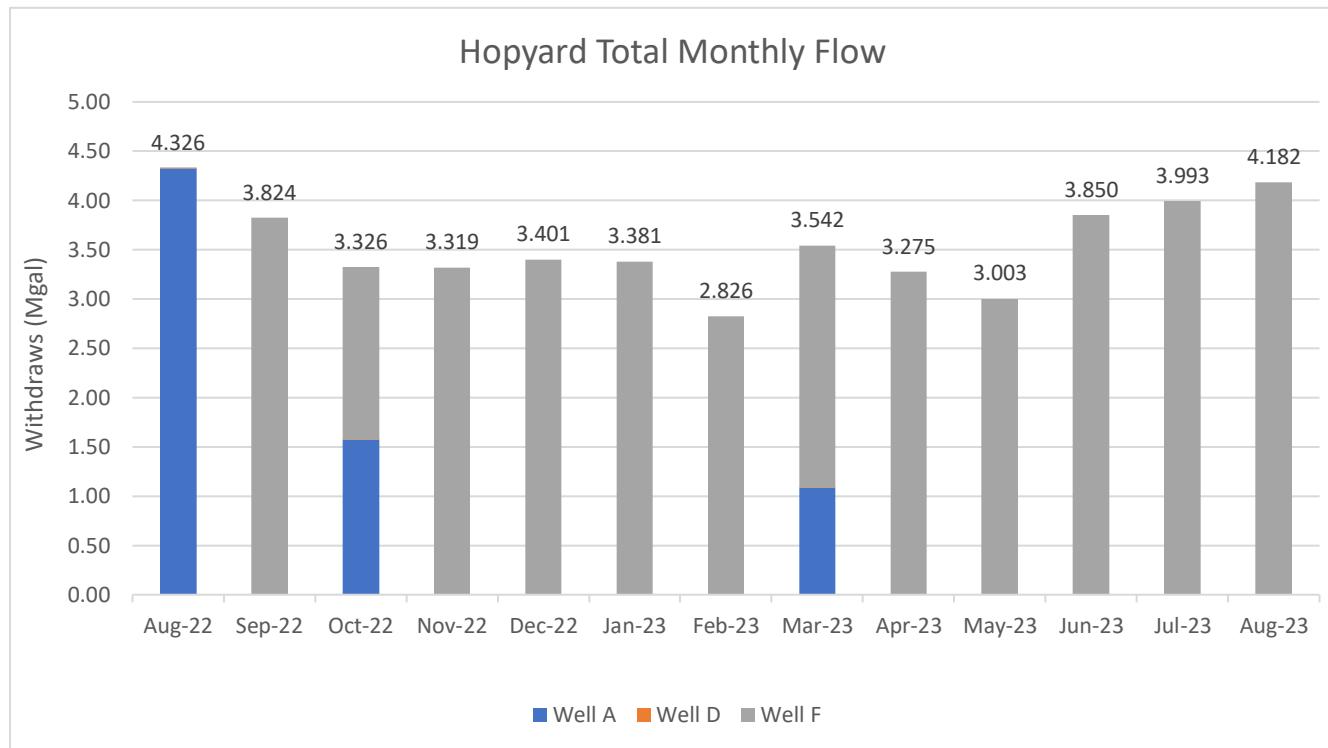
## Bacteriological Analysis

Location Code	Location Address	Date	Result
030	6190 McCarthy Drive	8/4/2023	Absent
060	5276 Longbow Road	8/4/2023	Absent

## Operational Notes:

- 8/1: Well D and A Offline
- 8/15: Backwash 1-6

## 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	9100 St. Anthony's Road – Old Art Room #10	8/4/2023	Absent

**Operational Notes:** N/A

**System Production:** August meter reading 29501800; 22,200 gallons used.

## Ninde's Store – PWSID 6099300

### Water Quality

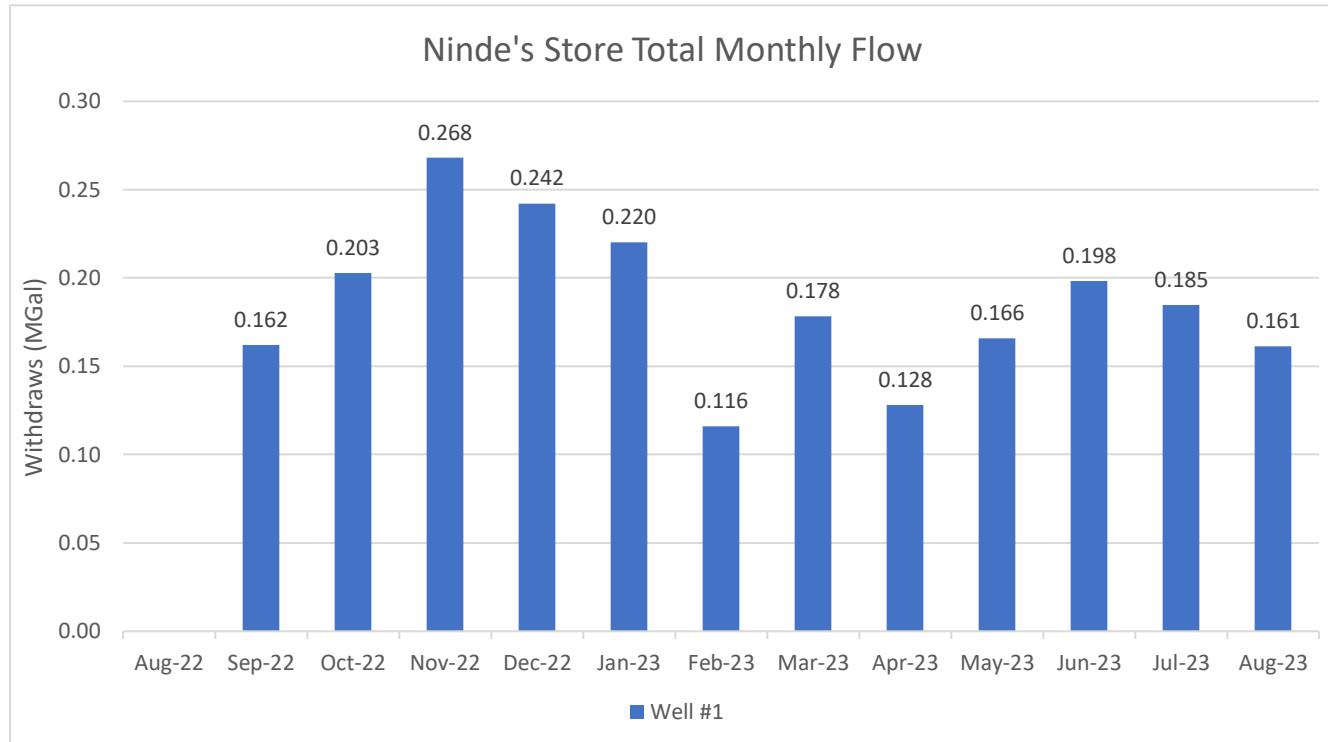
The Water Treatment facility and distribution system maintained compliance with all required sampling. Routine bacteriological sample results are shown in the table below:

### Bacteriological Analysis

Location Code	Location Address	Date	Result
030	16475 Ridge Road	8/4/2023	Absent

**Operational Notes:** N/A

### 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:

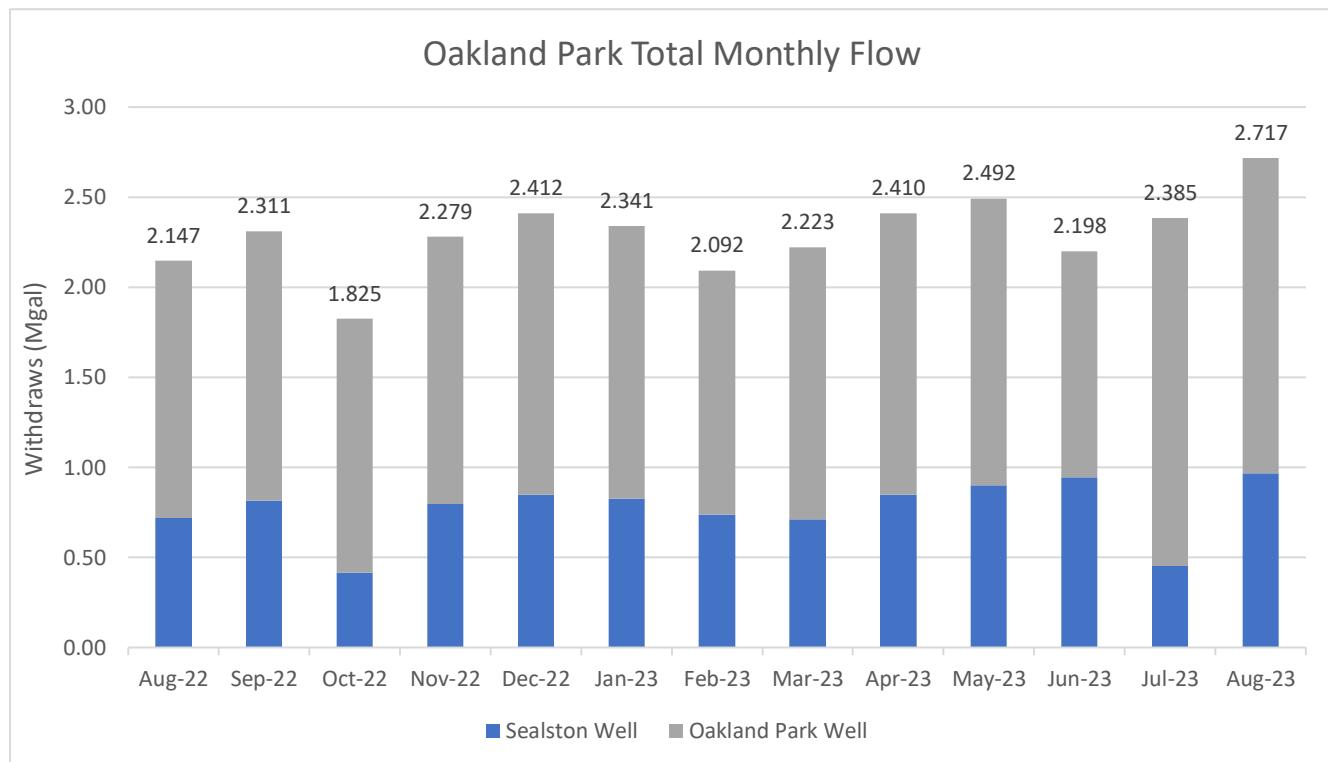
## Bacteriological Analysis

Location Code	Location Address	Date	Result
02	9124 Fletcher's Chapel Road	8/22/2023	Absent
05	10157 Fletcher's Chapel Road	8/22/2023	Absent

## Operational Notes:

- 8/1, 2: Sealston: Offline
- 8/4: Oakland Park: Backwash 1, 2, 3
- 8/9: Sealston: Backwash 1, 2
- 8/11: Sealston: Backwash 1
- 8/14: Oakland Park: Backwash 1, 2, 3; Sealston: Backwash 1, 2
- 8/18: Sealston: New gauges installed
- 8/25: Sealston: Backwash 1, 2
- 8/28: Oakland Park: Backwash 1, 2, 3

## 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:

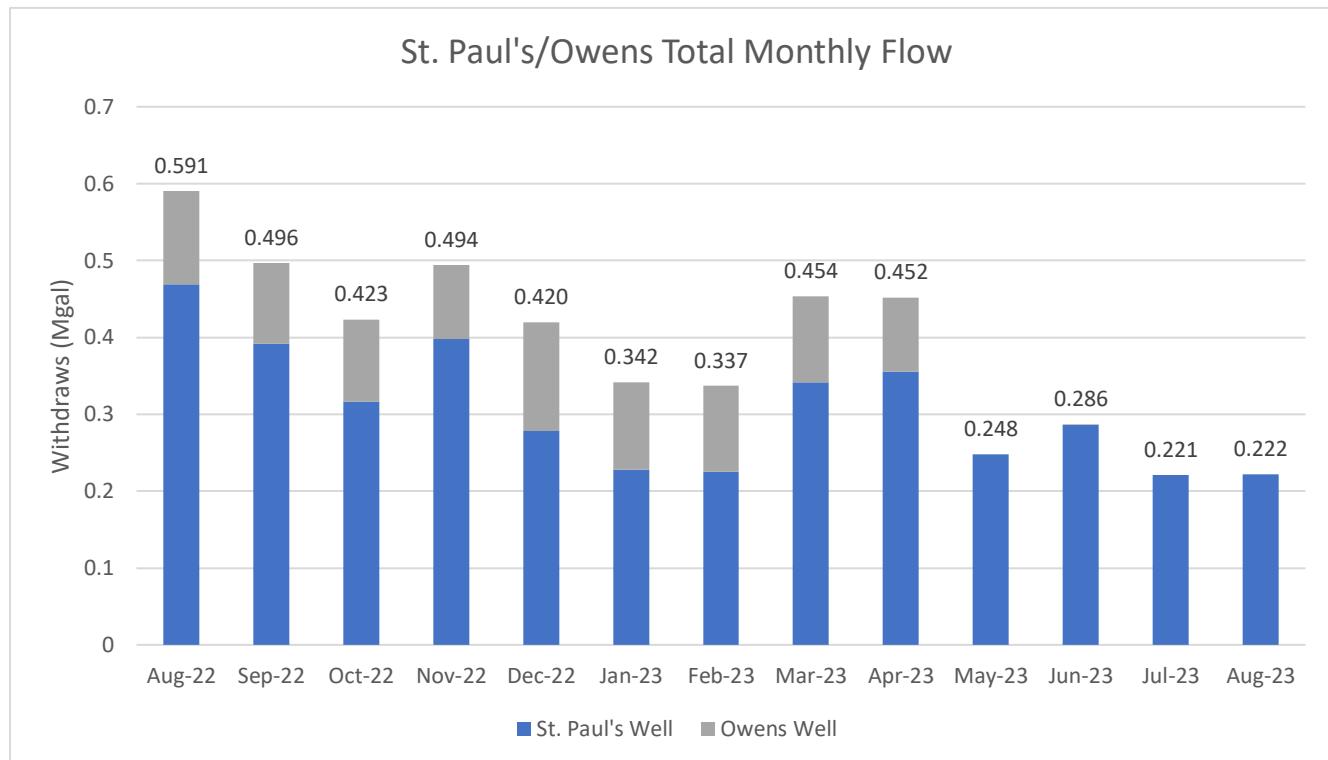
## Bacteriological Analysis

Location Code	Location Address	Date	Result
030	5109 Rose Avenue	8/4/2023	Absent

## Operational Notes:

- 8/1: Owens: Meter stuck

## System Production:



---

# WASTEWATER

## Overview:

- Fairview Beach WWTP exceeded the permitted monthly average for Fecal Coliform (62 n/CML)
- Fairview Beach WWTP VPDES Permit Reissuance Application submitted—IES to follow up with additional effluent temperature data to DEQ-NRO
- Dahlgren WWTP effluent flow meter—but KGSA maintenance staff were notified of meter issues

# Dahlgren – WWTP

## Effluent Quality:

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

## Wastewater Treatment:

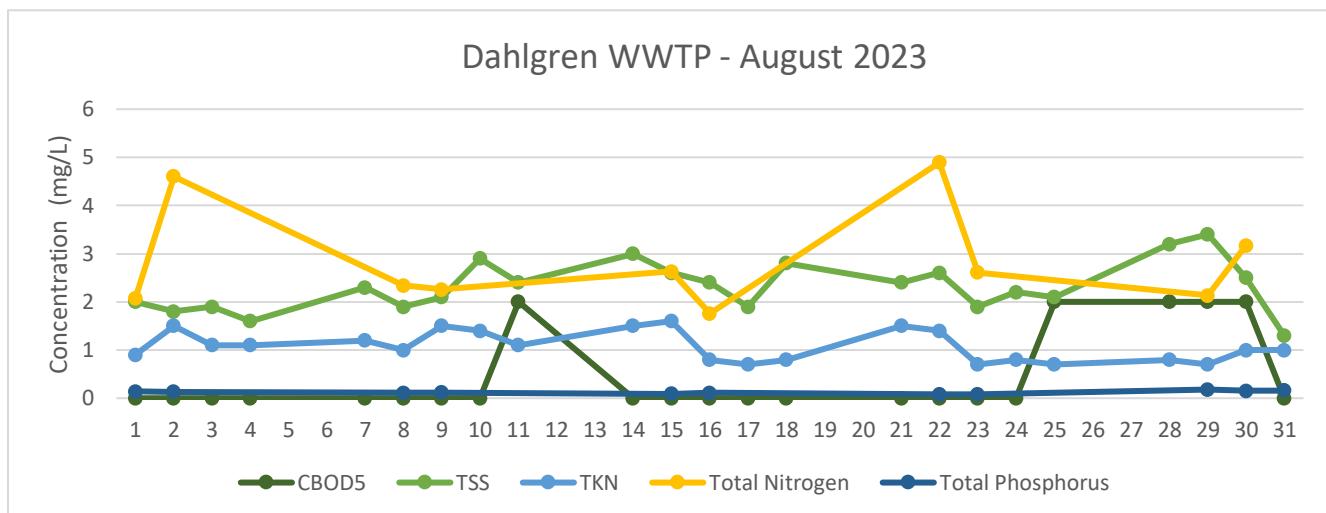
The Dahlgren WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.262 MGD and a total monthly discharge of 8.122 MG.

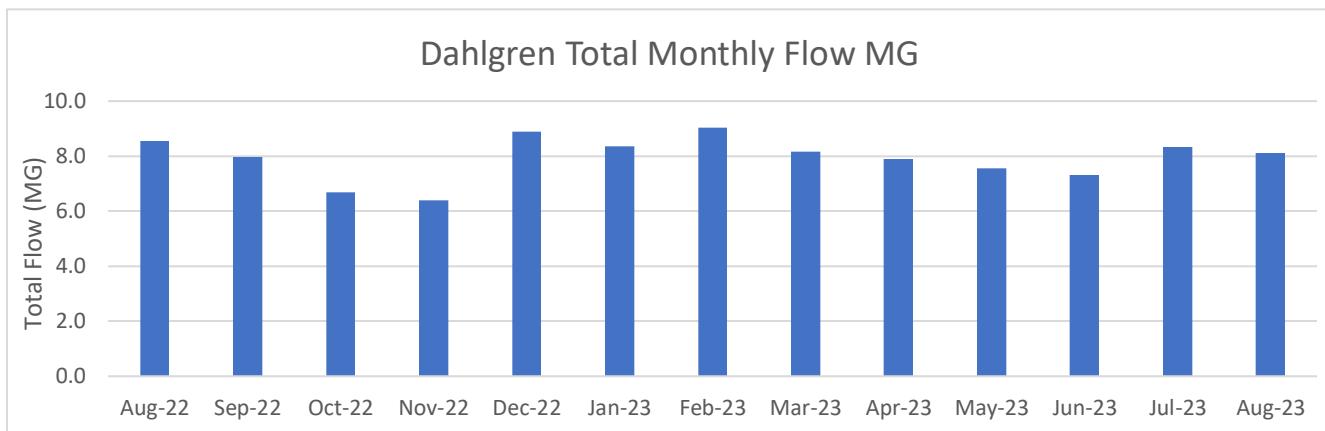
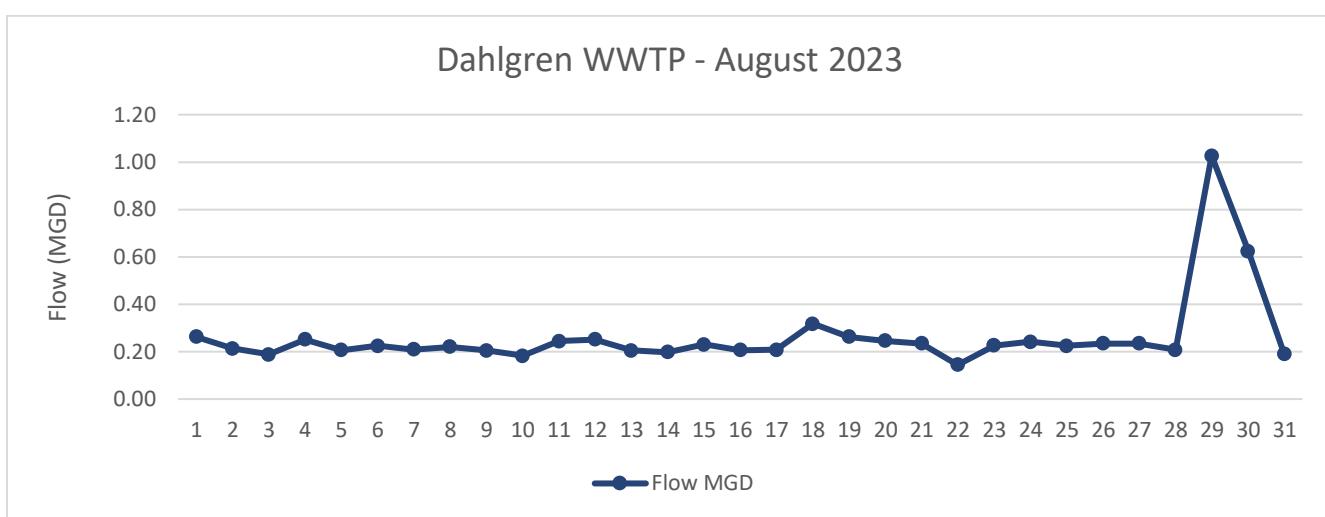
## Operational Notes:

- King George maintenance performed maintenance on Rotors, tightened up drive chain.
- SEI performed work on SCADA software to allow for functionality through SCADA network.
- Changed out suction line on 1850 pump system, installed a screen to prevent small particles from clogging check ball system of chemical pump.
- Continuing optimum sludge management to keep runtime low on belt press.

## Data Trending:

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





## Hopyard – WWTP

### Effluent Quality:

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

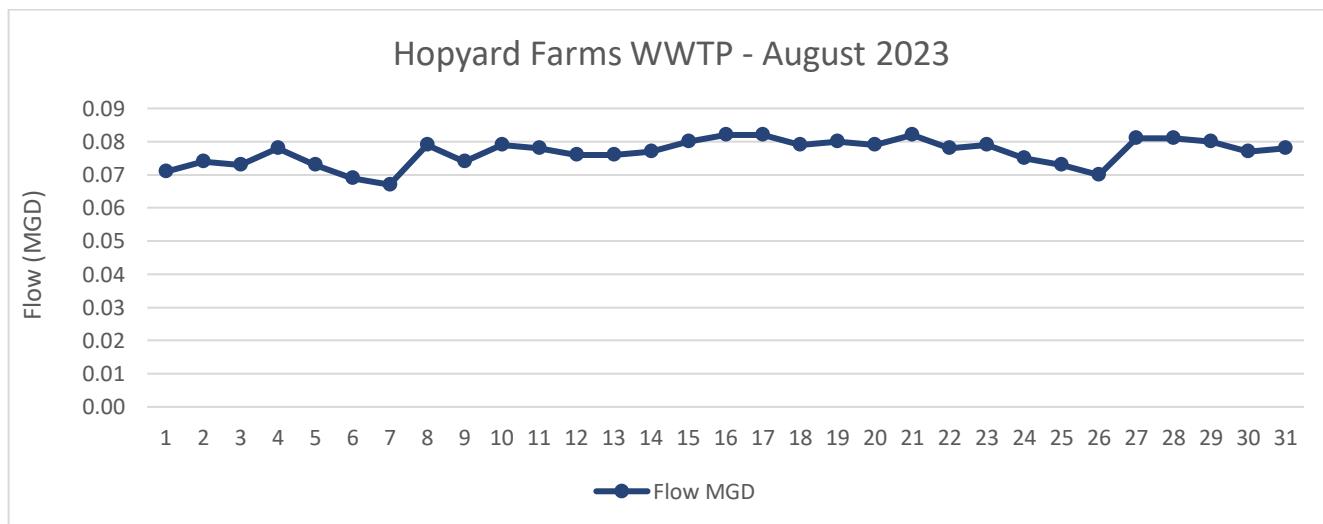
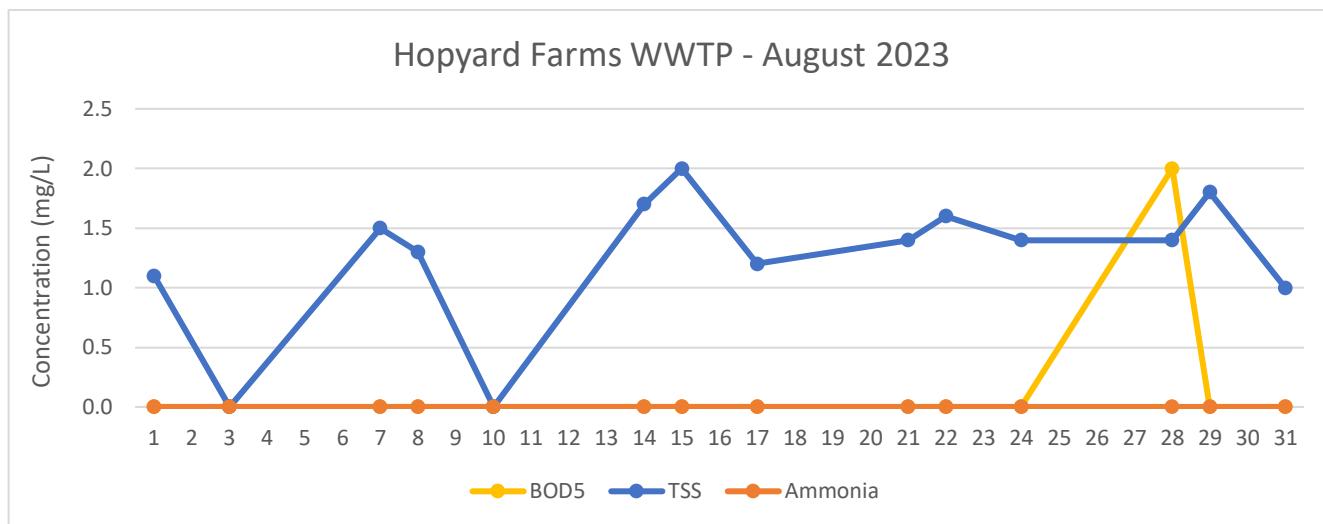
### Wastewater Treatment:

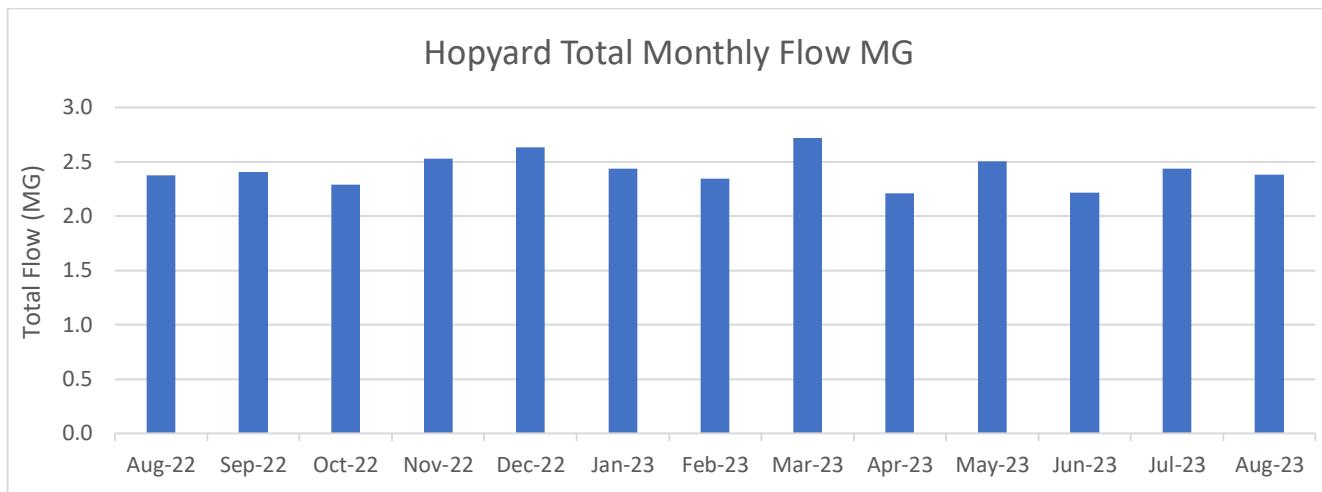
The Hopyard WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.077 MGD and a total monthly discharge of 2.380 MG.

### Operational Notes: N/A

### 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 operated well and maintained compliance with all permit-required sampling.

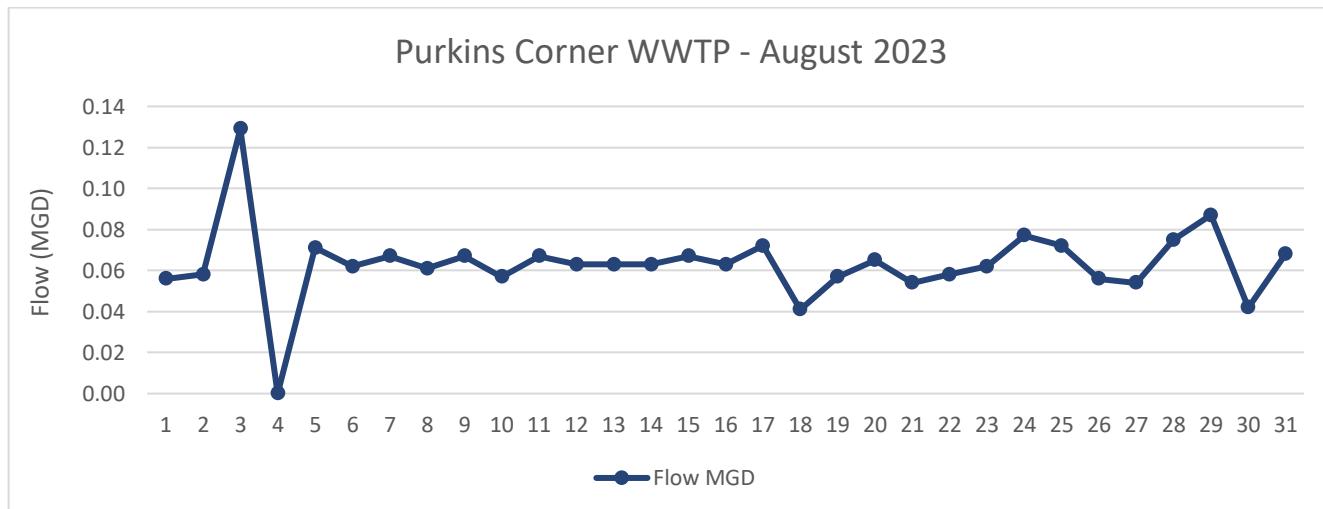
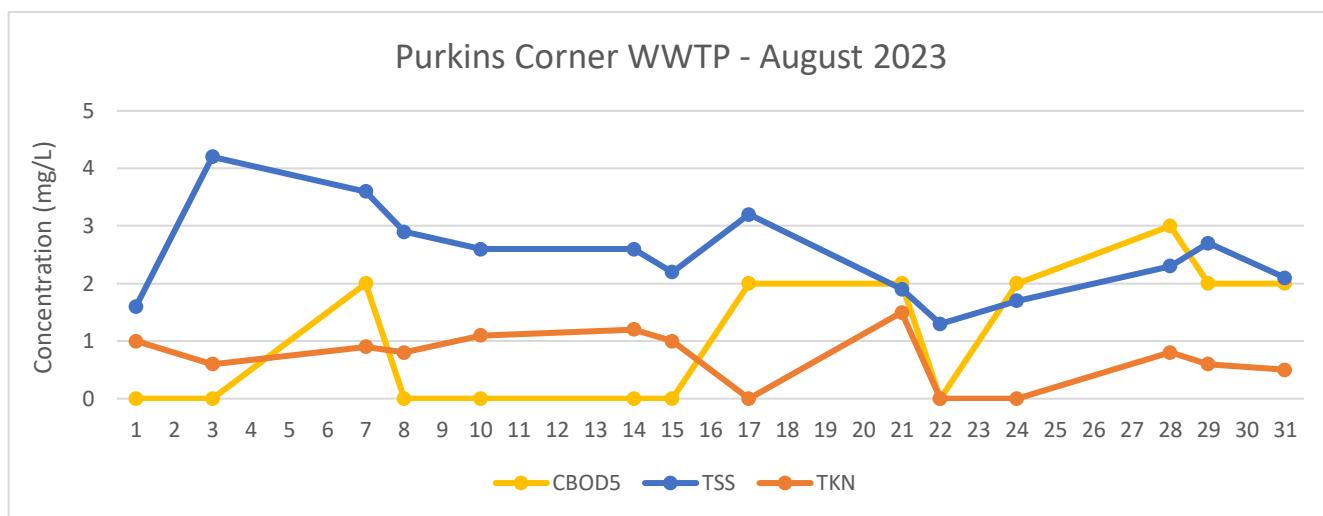
### Wastewater Treatment:

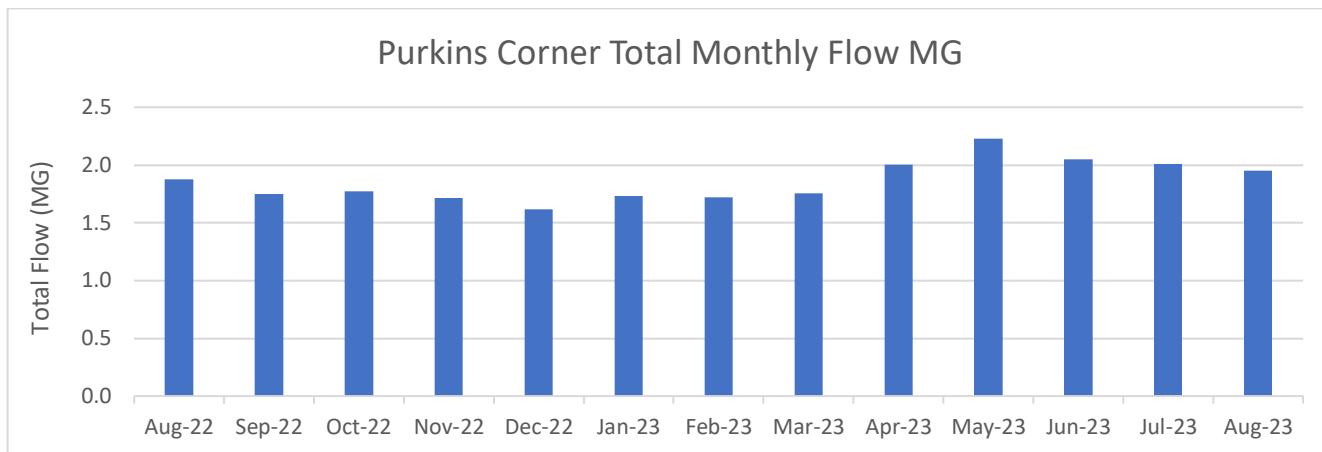
The Purkins Corner WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.063 MGD and a total monthly discharge of 1.954 MG.

### Operational Notes: N/A

### 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 operated well and maintained compliance with all permit-required sampling.

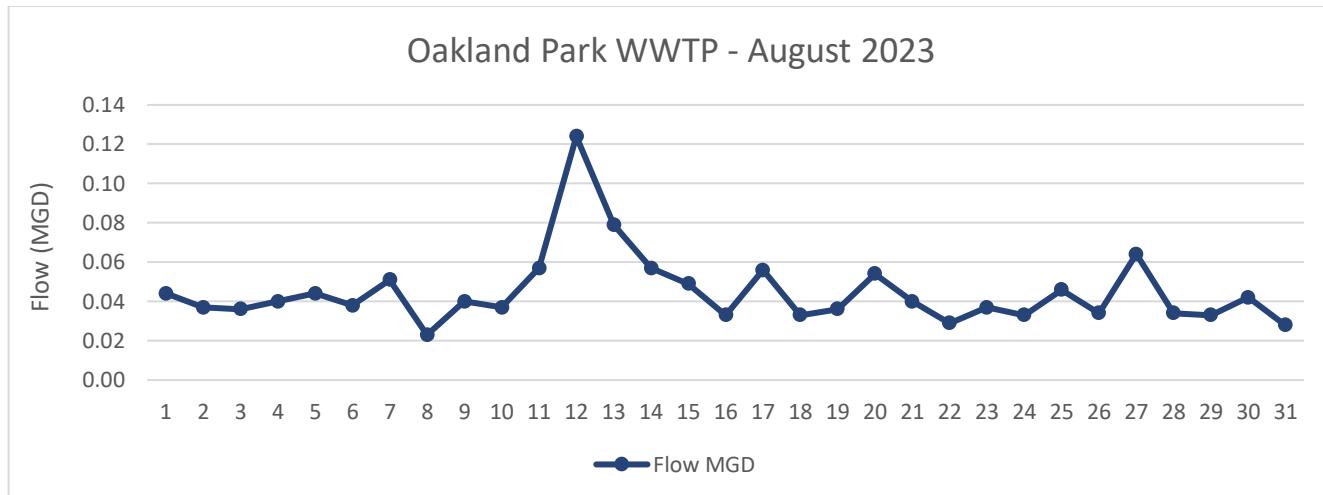
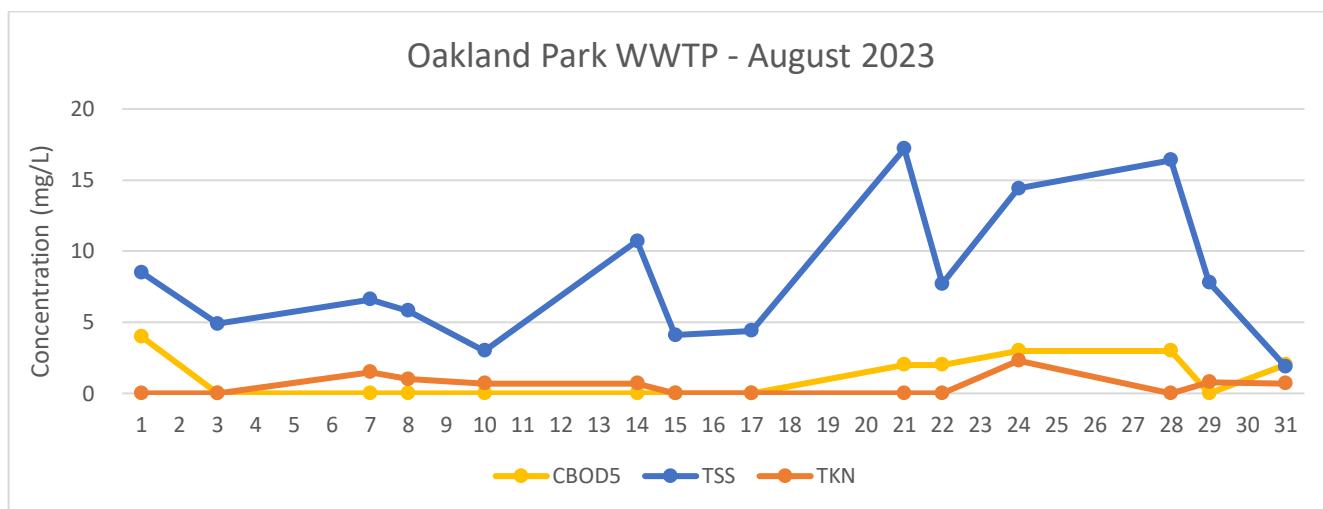
### Wastewater Treatment:

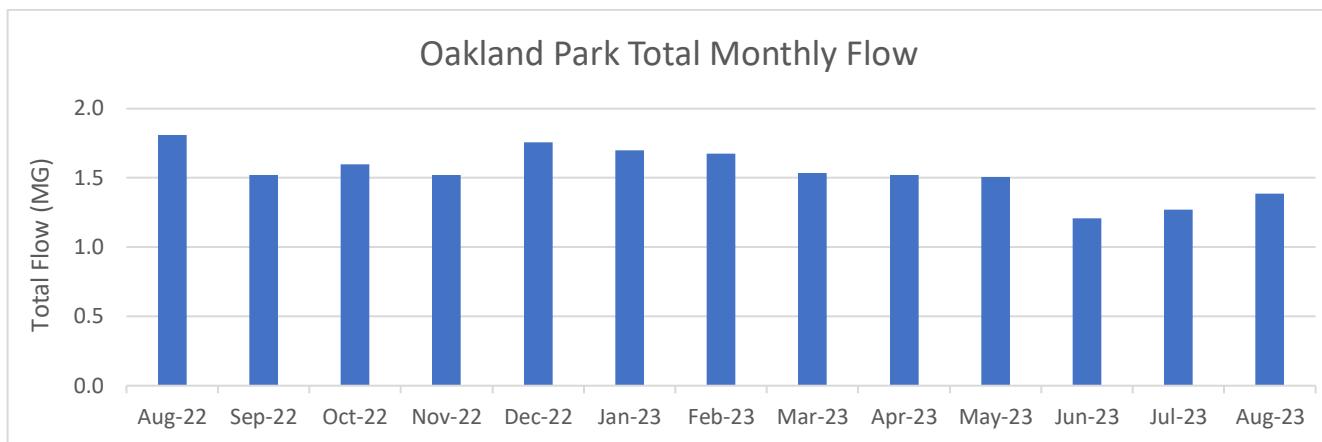
The Oakland Park WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.045 MGD and a total monthly discharge of 1.388 MG.

### Operational Notes: N/A

### 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 operated well and maintained compliance with all permit-required sampling.

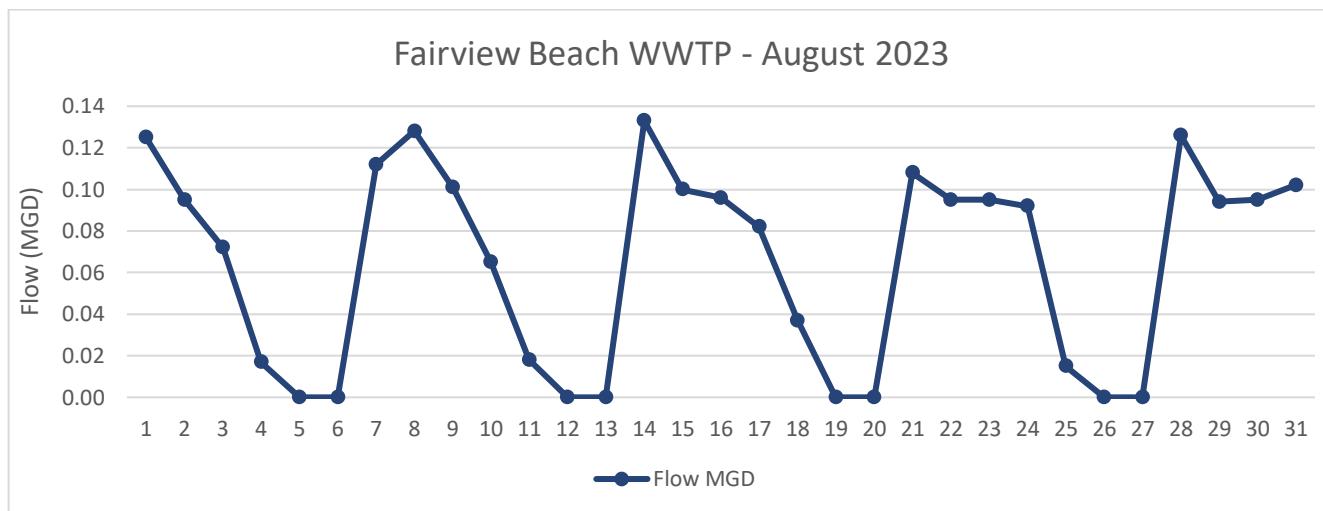
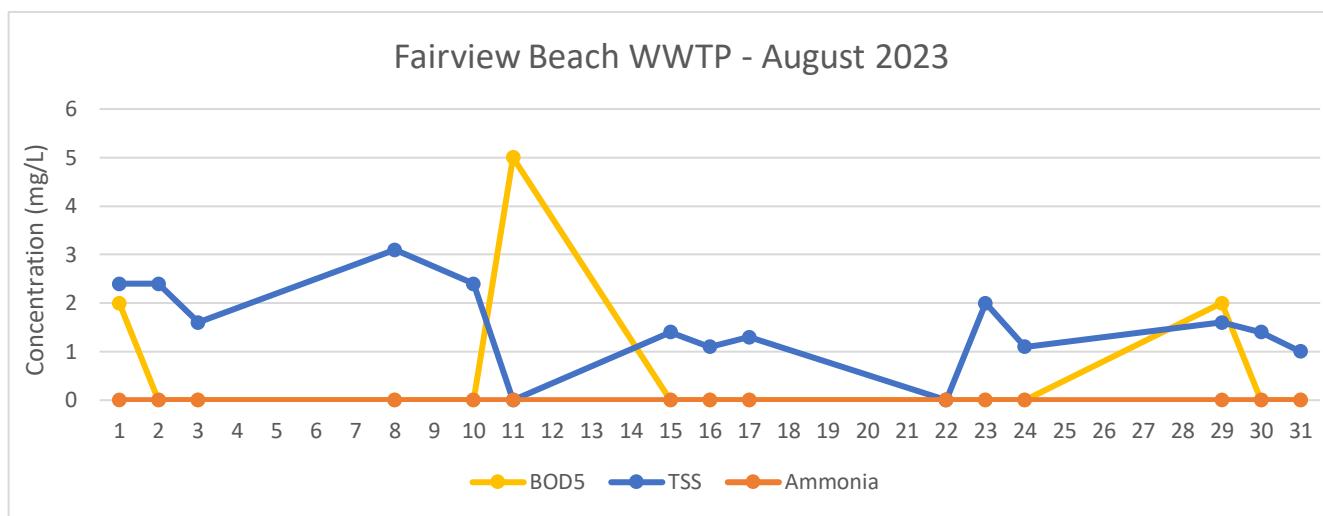
### Wastewater Treatment:

The Fairview Beach WWTP met the sewer service area's sanitation demand with an average daily discharge of 0.065 MGD and a total monthly discharge of 2.005 MG.

### Operational Notes: N/A

### Data Trending:

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



Fairview Beach Total Monthly Flow MG

