

Sept. 16, 2024

## Utility Department Monthly Operating Report Sewer Department

### August 2024 Effluent Monitoring Data

During the August operating period there were no exceedances. See performance table below for further details of the regulatory monitoring data, for the month of August 2024.

See updated Flow, TSS and BOD Trend Charts at the end of this report.

### WWTP Monthly Performance Table

Parameters	August	July	June	YTD Low	YTD Hi	YTD Ave	2023 Ave	DEP Limit	YTD Exceed- ances
Flow GPD	18801	17868	40632	7748	43915	22686	<b>20449</b>	<b>63,000</b>	0
Precip inches	4.33	3.92	3.79	1.01	10	3.92	n/a	n/a	0
TSS lbs/min	4	4	1	0.4	4	1.58	<b>1.36</b>	<b>&lt;76</b>	0
TSS lbs max	10	9	3	0.7	10	3.37	<b>3.09</b>	<b>report</b>	0
TSS mg/l ave	40	34	15	5.0	40	17.3	<b>10.6</b>	<b>&lt;145</b>	0
TSS mg/l max	64	42	21	7.7	64	23	<b>12.9</b>	<b>report</b>	0
TSS % removal	86.2	88.2	94.8	86.2	97.9	94.1	<b>96.1</b>	<b>&gt;50</b>	0
BOD lbs/min	16	16	12	7	16	12.1	<b>19.7</b>	<b>&lt;107</b>	0
BOD lbs max	34	42	13	12.3	190	53.3	<b>65.6</b>	<b>report</b>	0
BOD mg/l ave	174	174	139	139	248	<b>183.4</b>	<b>178</b>	<b>&lt;203</b>	2
BOD mg/l max	205	254	230	205	360	269	<b>259.1</b>	<b>report</b>	0
BOD % removal	40	40	52	14.4	52	37	<b>39.4</b>	<b>&gt;30</b>	2
pH low	6.8	6.8	6.6	6.6	6.7	6.7	<b>6.7</b>	<b>&gt;6.0</b>	0
pH high	7.1	7.1	6.9	6.9	7.1	6.9	<b>6.9</b>	<b>&lt;9.0</b>	0
St solids ml/l	0.1	0.1	0.1	0.1	0.1	0.1	<b>0.1</b>	<b>report</b>	0
TRC mg/l max	0.03	0.04	.05	0.03	0.05	0.05	<b>0.066</b>	<b>&lt;0.3</b>	0
Fecal cfu ave	<4	<4	<4	<4	<4	<4	<b>&lt;4</b>	<b>&lt;14</b>	0
Fecal cfu max	<4	<4	<4	<4	<4	<4	<b>&lt;4</b>	<b>&lt;31</b>	0
Enterococcus cfu ave	<4	<5	<5	<4	<5	<4	<b>108</b>	<b>&lt;8</b>	0
Enterococcus cfu max	<4	11	8	<4	11	<6	<b>9680</b>	<b>&lt;54</b>	0
Hg ng/l ave	n/a	n/a	n/a	n/a	n/a	n/a	<b>4.1</b>	<b>33.4</b>	0
Hg ng/l max	n/a	n/a	n/a	n/a	n/a	n/a	<b>4.1</b>	<b>50.1</b>	0

1. Moore's Septage pumped first 2 tanks on each train Mar. 27th, 2024 and all tanks on 6-28-24.
2. Moore's is scheduled for pumping on Oct. 25<sup>th</sup>, 2024
3. EPA renewal application was submitted on 11-29-23
4. There was 4.33 inches of rain in August.
5. There was a single day flow recorded at 440,660 gallons on 6-29-24 when we received 1.07 inches of rain in very short period

6. **Influent Loading Testing and before chemical addition study continues**
  - a. **Some high influent BODs have been recorded as high as 800 mg/l**
  - b. **It is common for the influent weir to become clogged limiting the flow to one or two trains**

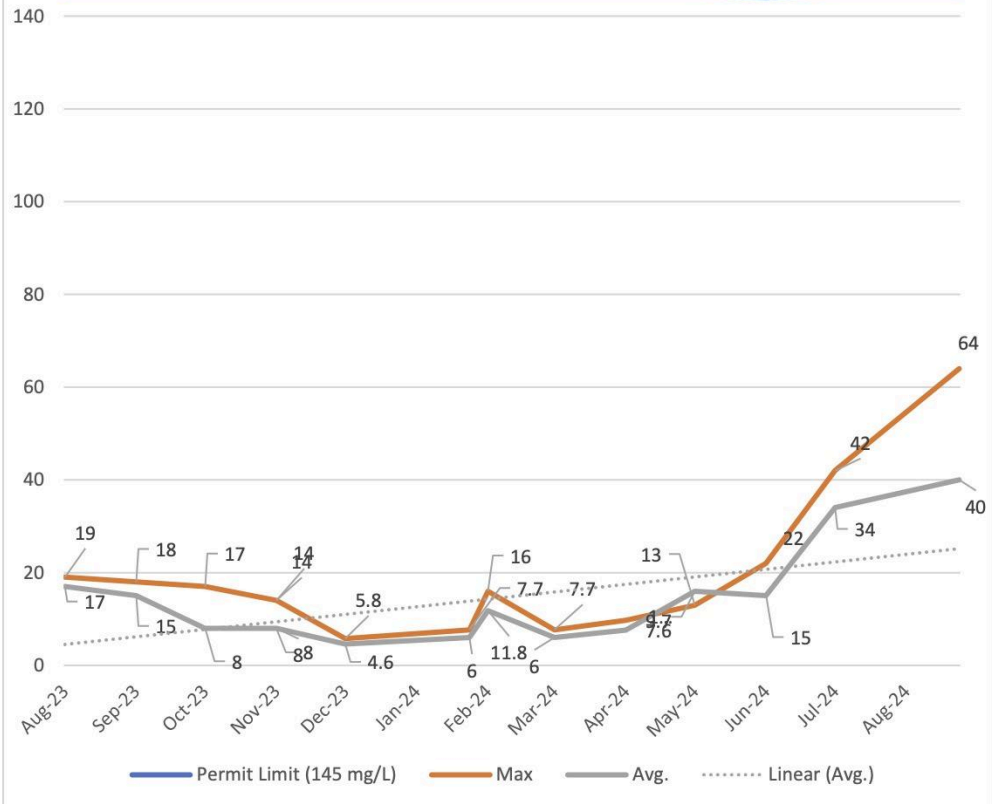
## **Drinking Water Department**

### August 2024 Production and Water Quality.

Purchased water for the month averaged 34,552 gpd compared to 41,381 gpd for the same month in 2023. Evidence that less folks were in Bayside during the month of August 2024. The weekly free chlorine residual in the drinking water ranged from 0.15 - 0.19 ppm/Cl<sup>2</sup> compared to the recommended goal of >.20 to <1.0 ppm/Cl<sup>2</sup> at the entry point to the distribution system and a residual at the tap. The EPA maximum concentration level (MCL) not to be exceeded for chlorine residual related to human health is 4.0 ppm. The monthly total coliform and e-coli water sample test results were negative.

1. **It appears that the chart recorder or relay wire caused interference with the meter reading we are waiting for a tech from Ti-Sales to check the cause of the problem. In the meantime, we don't have instantaneous flow information.**
2. **The new 6 inch meter was installed on Feb. 29<sup>th</sup>.**
3. **Three Rates are under consideration with the Maine PUC 1.5 percent annual, one-time 25 percent increase and one time meter replacement fee.**
  - a. **The one percent and 25 percent are ready for implementation in the Nov. bill.**
  - b. **The one time meter charge is further being considered by the MPUC.**
4. **Lead service line work is ongoing.**

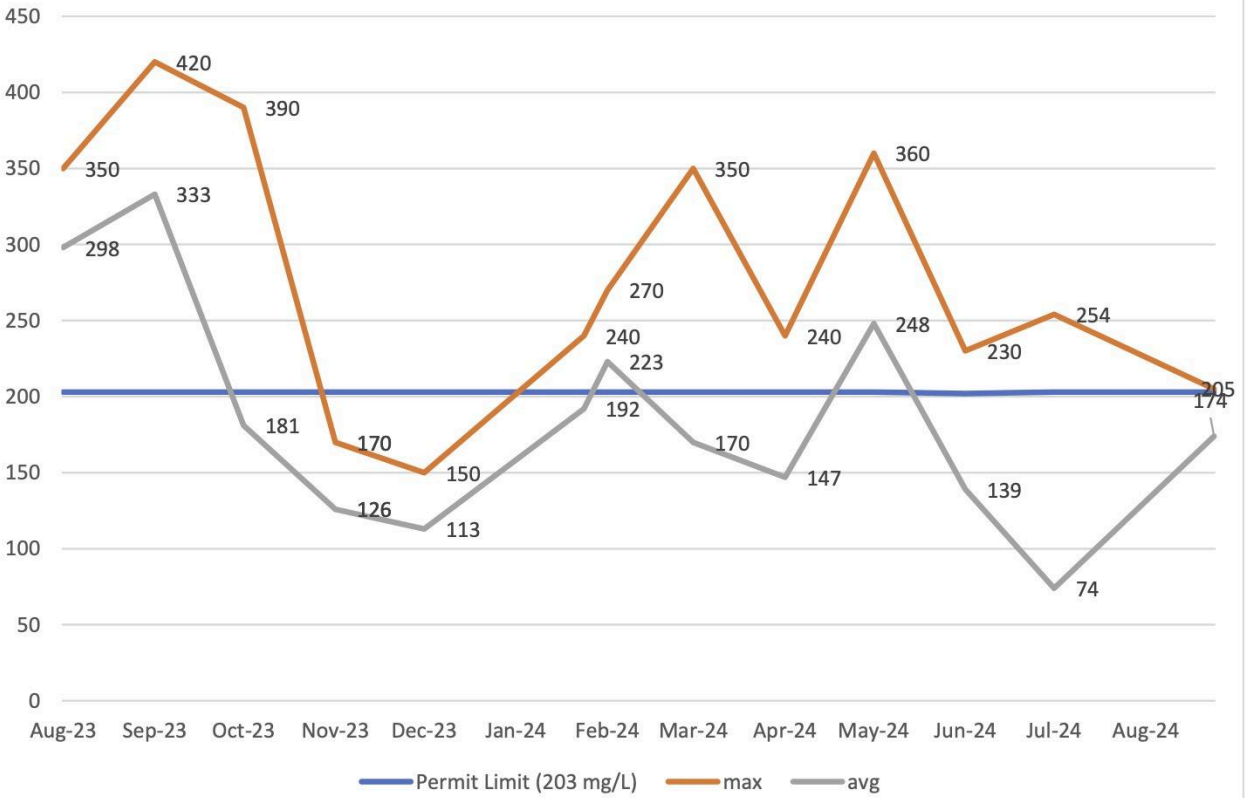
August 2023 - August 2024 TSS (mg/L)



**August 23 - August 2024 Northport Village  
Flow Bod TSS Data**

	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Nov-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24
<b>Flow Avg</b>															
Gals	27178	23961	18124	25692	13338	30030	13338	18633	7748	43915	24406	9487	40632	17868	18801
<b>BOD mg/l</b>															
max	260	350	420	390	170	150	170	240	270	350	240	360	230	254	205
avg	203	298	333	181	126	113	126	192	223	170	147	248	139	74	174
<b>TSS mg/l</b>															
max	16	19	18	17	14	5.8	14	7.7	16	7.7	9.7	13	22	42	64
avg	15	17	15	8	8	4.6	8	6	11.8	6	7.6	16	15	34	40

August 2023 - August 2024 BOD (mg/L)



### August 2023 - August 2024 Daily Flow Average

