

July 14, 2024

## Utility Department Monthly Operating Report Sewer Department

### June 2024 Effluent Monitoring Data

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

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

### WWTP Monthly Performance Table

Parameters	June	May	April	YTD Low	YTD Hi	YTD Ave	2023 Ave	DEP Limit	YTD Exceed- acnes
Flow GPD	40632	9487	24406	7748	43915	24137	<b>20449</b>	<b>63,000</b>	0
Precip inches	3.79	2.85	3.66	1.01	10	3.87	n/a	n/a	0
TSS lbs/min	1	1	0.5	0.4	1	0.77	<b>1.36</b>	<b>&lt;76</b>	0
TSS lbs max	3	1	2.7	0.7	3	2.0	<b>3.09</b>	<b>report</b>	0
TSS mg/l ave	15	13	7.6	6.0	15	11	<b>10.6</b>	<b>&lt;145</b>	0
TSS mg/l max	21	16	9.7	7.7	21	13	<b>12.9</b>	<b>report</b>	0
TSS % removal	94.8	94.4	97.4	94.4	97.9	96.4	<b>96.1</b>	<b>&gt;50</b>	0
BOD lbs/min	12	12	7	7	16	10.75	<b>19.7</b>	<b>&lt;107</b>	0
BOD lbs max	13	29	52	12.3	190	58	<b>65.6</b>	<b>report</b>	0
BOD mg/l ave	139	<b>248</b>	147	139	248	<b>186.4</b>	<b>178</b>	<b>&lt;203</b>	2
BOD mg/l max	230	360	240	230	360	282	<b>259.1</b>	<b>report</b>	0
BOD % removal	52	<b>14.4</b>	49.3	14.4	52	35.7	<b>39.4</b>	<b>&gt;30</b>	2
pH low	6.6	6.7	6.7	6.6	6.7	6.7	<b>6.7</b>	<b>&gt;6.0</b>	0
pH high	6.9	6.9	6.9	6.9	6.9	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	.05	0.4	0.05	0.04	0.05	0.05	<b>0.066</b>	<b>&lt;0.3</b>	0
Fecal cfu ave	<4	<4	<4	<4	<4	<4	<4	<b>&lt;14</b>	0
Fecal cfu max	<4	<4	<4	<4	<4	<4	<4	<b>&lt;31</b>	0
Enterococcus cfu ave	<5	<4	<4	<4	<5	<4	<b>108</b>	<b>&lt;8</b>	0
Enterococcus cfu max	8	<4	4	<4	8	<5	<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. EPA renewal application was submitted on 11-29-23
3. There was 3.79 inches of rain in June.
4. 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
5. Influent Loading Testing and before chemical addition study is underway

## Drinking Water Department

### June 2024 Production and Water Quality.

Purchased water for the month averaged **13,015 gpd compared to 17,079 gpd** for the same month in 2023. The weekly free chlorine residual in the drinking water ranged from 0.24 - 0.36 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. 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 both negative.

1. **The new meter appears to be reading correctly after flushing on 4-26-24, there was most likely air interfering with the correct reading**
2. **The new 6 inch meter was installed on Feb. 29<sup>th</sup>**
3. **Rates are under consideration with the Maine PUC**
4. **Grant was applied to identify lead in service lines for \$16,600 to the Maine DWP**
5. **Also need a vote for:**

One time Assessment to replace the existing water meters with certified lead free replacements estimated at a total of \$109,196.86. Northport Village Corporation will be each customer a **one time fee of \$328.91.**

Northport Village Corporation will offer an interest free payment plan for customers whom request such up to 6 equal payments of \$54.82. (Northport Village Corporation bills 3 times per year for water)

This will also stream line Northport Village Corporation meter reading process with a radio read system, as currently touch pads and manual reads are needed to complete meter reading.

**June 23 - June 2024 Northport Village**

**Flow Bod TSS Data**

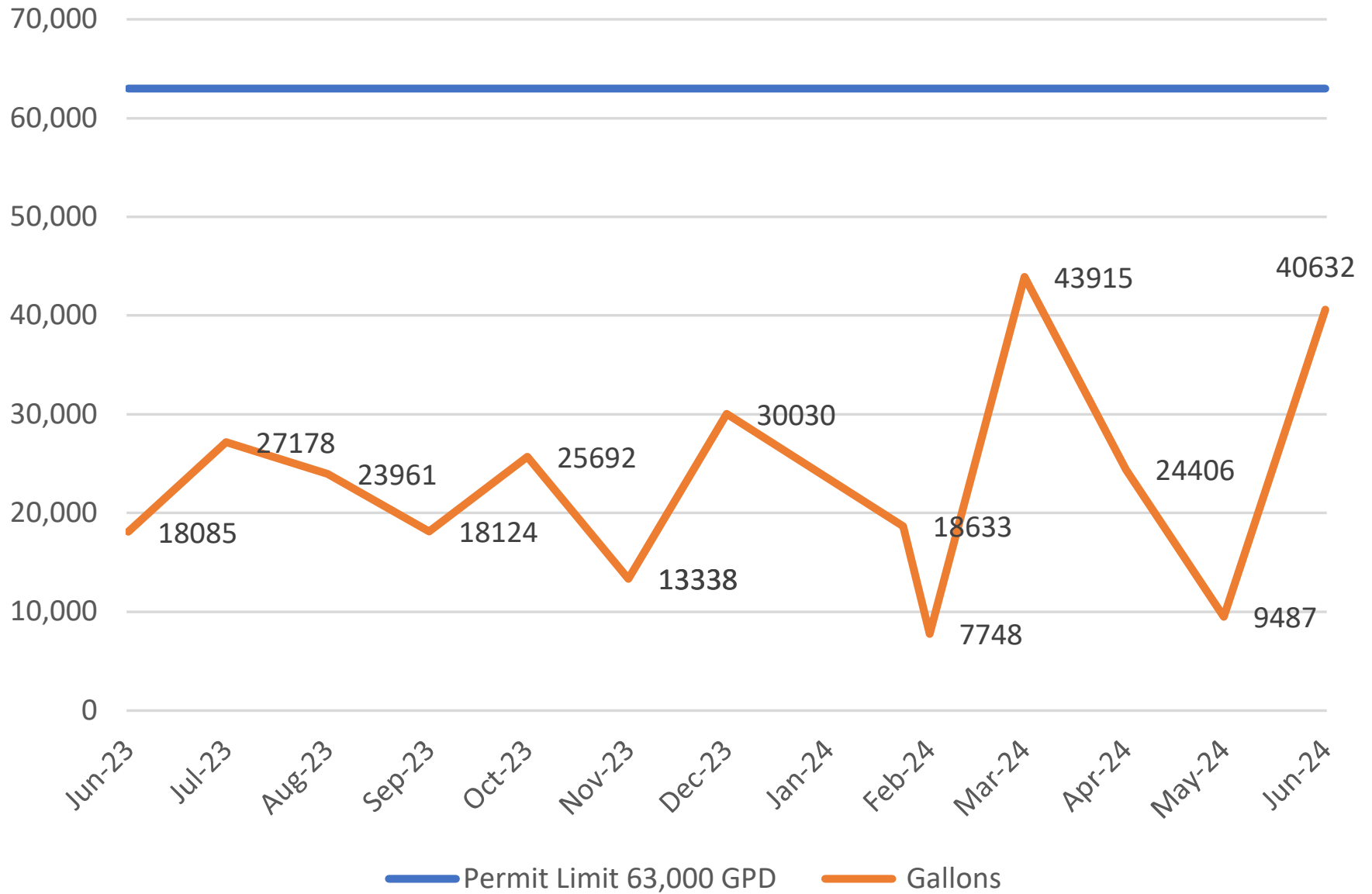
Daily Flow Avg

	<b>May-23</b>	<b>Jun-23</b>	<b>Jul-23</b>	<b>Aug-23</b>	<b>Sep-23</b>	<b>Oct-23</b>	<b>Nov-23</b>	<b>Dec-23</b>	<b>Nov-23</b>	<b>Jan-24</b>	<b>Feb-24</b>	<b>Mar-24</b>	<b>Apr-24</b>	<b>May-24</b>	<b>Jun-24</b>
Permit Limit 63,000 GPD	63,000	63,000	63,000	63,000	63,000	63,000	63,000	63,000	63,000	63,000	63,000	63,000	62,999	63,000	63,000
Gallons	17246	18085	27178	23961	18124	25692	13338	30030	13338	18633	7748	43915	24406	9487	40632

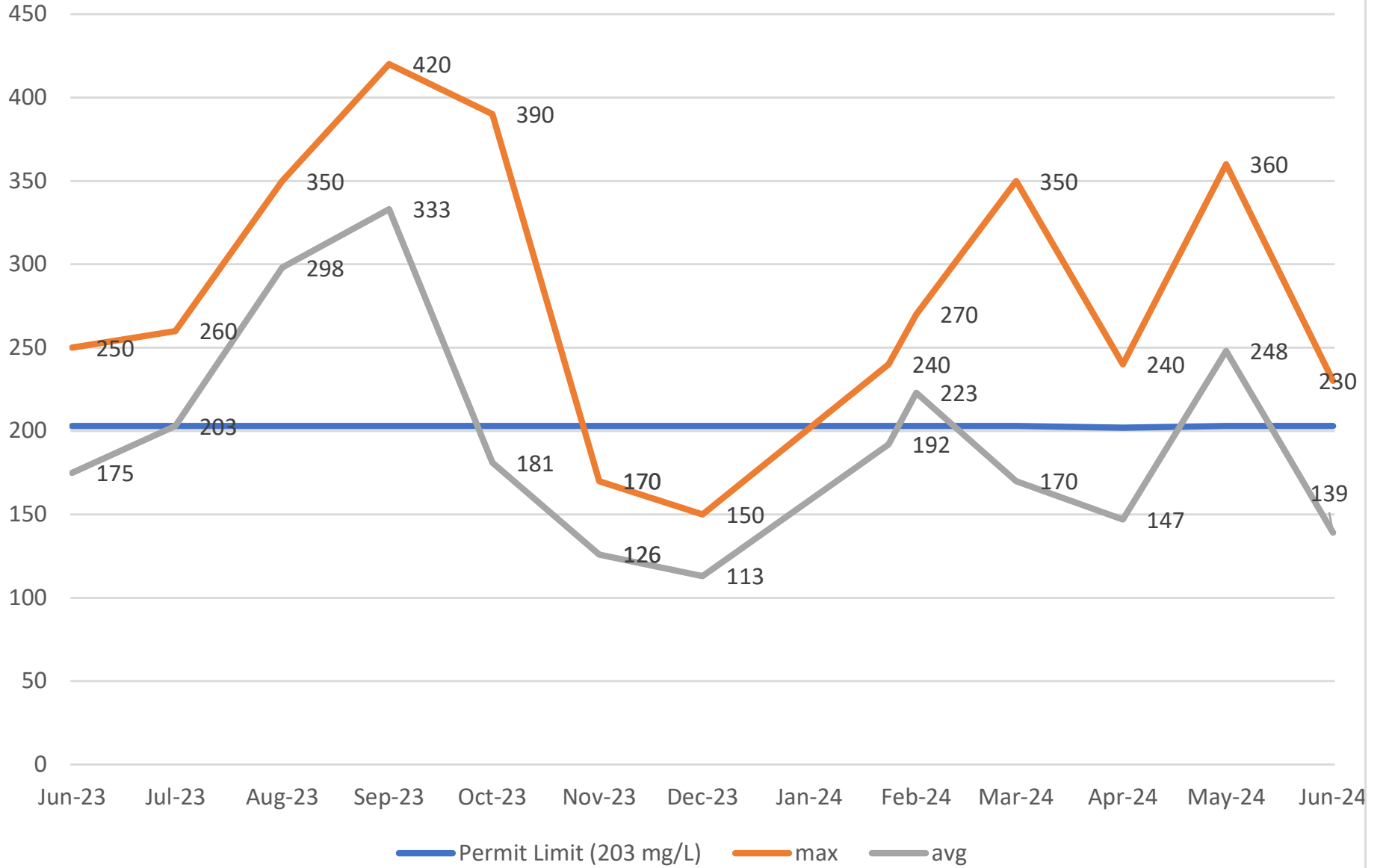
	<b>May-23</b>	<b>Jun-23</b>	<b>Jul-23</b>	<b>Aug-23</b>	<b>Sep-23</b>	<b>Oct-23</b>	<b>Nov-23</b>	<b>Dec-23</b>	<b>Nov-23</b>	<b>Jan-24</b>	<b>Feb-24</b>	<b>Mar-24</b>	<b>Apr-24</b>	<b>May-24</b>	<b>Jun-24</b>
<b>Permit Limit (203 mg/L)</b>	203	203	203	203	203	203	203	203	203	203	203	203	202	203	203
max	200	250	260	350	420	390	170	150	170	240	270	350	240	360	230
avg	154	175	203	298	333	181	126	113	126	192	223	170	147	248	139

	<b>May-23</b>	<b>Jun-23</b>	<b>Jul-23</b>	<b>Aug-23</b>	<b>Sep-23</b>	<b>Oct-23</b>	<b>Nov-23</b>	<b>Dec-23</b>	<b>Nov-23</b>	<b>Jan-24</b>	<b>Feb-24</b>	<b>Mar-24</b>	<b>Apr-24</b>	<b>May-24</b>	<b>Jun-24</b>
<b>Permit Limit (145 mg/L)</b>	145	145	145	145	145	145	145	145	145	145	145	145	144	145	145
Max	13	16	16	19	18	17	14	5.8	14	7.7	16	7.7	9.7	13	22
Avg.	9	12	15	17	15	8	8	4.6	8	6	11.8	6	7.6	16	15

# June 2023 - June 2024 Daily Flow Average



### June 2023 - June 2024 BOD (mg/L)



### June 2023 - June 2024 TSS (mg/L)

