

Oct. 14, 2024

## Utility Department Monthly Operating Report Sewer Department

### Sept. 2024 Effluent Monitoring Data

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

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

### WWTP Monthly Performance Table

Parameters	Sept.	August	July	YTD Low	YTD Hi	YTD Ave	2023 Ave	DEP Limit	YTD Exceed- acnes
Flow GPD	10602	18801	17868	7748	43915	21478	<b>20449</b>	<b>63,000</b>	0
Precip inches	1.13	4.33	3.92	1.01	10	3.61	n/a	n/a	0
TSS lbs/min	2	4	4	0.4	4	1.63	<b>1.36</b>	<b>&lt;76</b>	0
TSS lbs max	4	10	9	0.7	10	3.44	<b>3.09</b>	<b>report</b>	0
TSS mg/l ave	3	40	34	3.0	40	15.7	<b>10.6</b>	<b>&lt;145</b>	0
TSS mg/l max	44	64	42	7.7	64	25.3	<b>12.9</b>	<b>report</b>	0
TSS % removal	87.6	86.2	88.2	86.2	97.9	93.4	<b>96.1</b>	<b>&gt;50</b>	0
BOD lbs/min	9	16	16	7	16	11.8	<b>19.7</b>	<b>&lt;107</b>	0
BOD lbs max	17	34	42	12.3	190	49.3	<b>65.6</b>	<b>report</b>	0
BOD mg/l ave	159	174	174	139	248	<b>180.7</b>	<b>178</b>	<b>&lt;203</b>	2
BOD mg/l max	180	205	254	180	360	<b>259.1</b>	<b>259.1</b>	<b>report</b>	0
BOD % removal	45	40	40	14.4	52	37.9	<b>39.4</b>	<b>&gt;30</b>	2
pH low	6.8	6.8	6.8	6.6	6.8	6.7	<b>6.7</b>	<b>&gt;6.0</b>	0
pH high	7.1	7.1	7.1	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	0.02	0.03	0.04	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	<4	<b>&lt;14</b>	0
Fecal cfu max	<4	<4	<4	<4	<4	<4	<4	<b>&lt;31</b>	0
Enterococcus cfu ave	<4	<4	<5	<4	<5	<4	<b>108</b>	<b>&lt;8</b>	0
Enterococcus cfu max	<4	<4	11	<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 1.13 inches of rain in September.
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**
  - c. **The study should conclude in October and a draft report should be available for the November meeting.**
  - d. **Dirigo Engineering and RECAP will proceed with the collection system monitoring this fall.**
  - e. **The FSP and CAP Grant application was submitted to the MMBB on 9/29/24.**

## **Drinking Water Department**

### Septemeber 2024 Production and Water Quality.

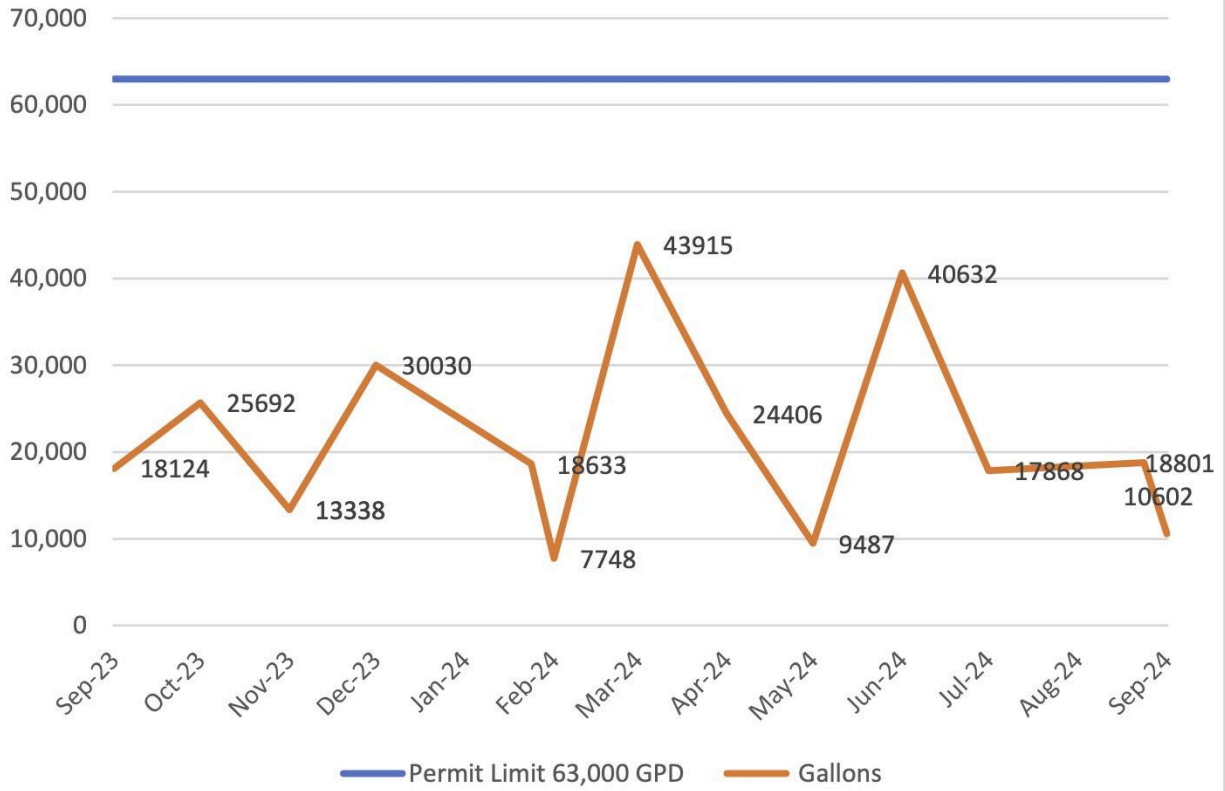
Purchased water for the month averaged 30,917 gpd compared to 31,216 gpd for the same month in 2023. The weekly free chlorine residual in the drinking water ranged from 0.21 - 0.27 ppm/Cl<sup>2</sup> compared to the recommended goal of >.20 to <1.0 ppm/Cl<sup>2</sup> at the entry point to the distribution 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. **Two Rates structures have been approved by the Maine PUC 1.5 percent annual, one-time 25 percent increase.**
  - a. **The one percent and 25 percent are ready for implementation in the Nov. bill.**
4. **At this time and one time meter replacement fee is on hold.**
5. **Lead service line work concluded on Oct. 16, 2024.**

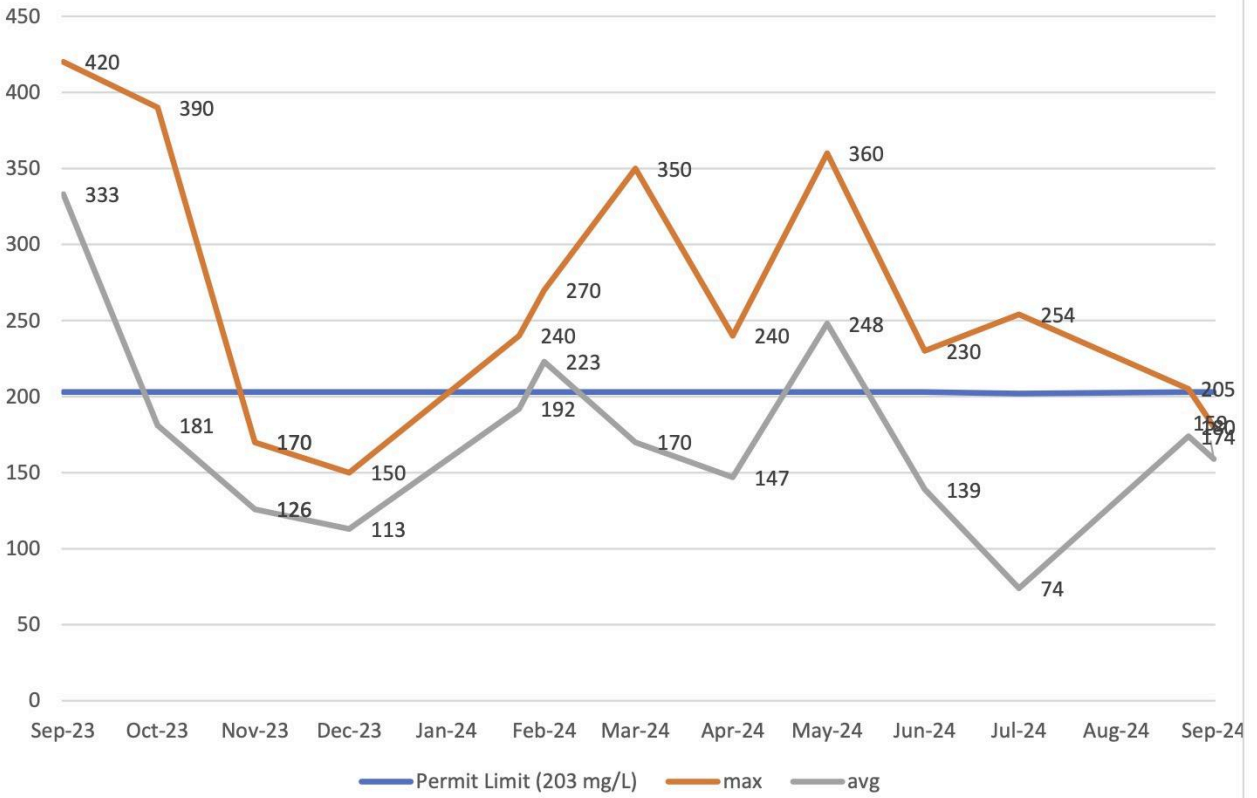
**September 23 - September 2024 Northport Village  
Flow Bod TSS Data**

	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	Sep-24
<b>Flow Avg</b>															
Gals	23961	18124	25692	13338	30030	13338	18633	7748	43915	24406	9487	40632	17868	18801	10602
<b>BOD mg/l</b>															
max	350	420	390	170	150	170	240	270	350	240	360	230	254	205	180
avg	298	333	181	126	113	126	192	223	170	147	248	139	74	174	159
<b>TSS mg/l</b>															
max	19	18	17	14	5.8	14	7.7	16	7.7	9.7	13	22	42	64	44
avg	17	15	8	8	4.6	8	6	11.8	6	7.6	16	15	34	40	36

## September 2023 - September 2024 Daily Flow Average



September 2023 - September 2024 BOD (mg/L)



September 2023 - September 2024 TSS (mg/L)

