

April 13, 2025

## Utility Department Monthly Operating Report

### Sewer Department

#### March 2025 Effluent Monitoring Data

During the operating period of March 2025 there were no exceedances. See performance table below for further details of the regulatory monitoring data, for the month of March 2025.

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

#### WWTP Monthly Performance Table

Parameters	Mar.	Feb	Jan	YTD Low	YTD Hi	YTD	2024	DEP Limit	YTD Exceed-ances
Flow GPD Avg	32564	5927	5977	5927	32564	<b>14822</b>	18995	<b>63,000</b>	0
Precip inches	3.92-4 in snow	0.9 – 22 in snow	1.20	1.20	3.92	2.11	3.50	n/a	0
TSS lbs/min	1	0.3	1	0.3	1	<b>0.8</b>	1.41	<b>&lt;76</b>	0
TSS lbs max	2	1	1	1	2	<b>1.3</b>	3.56	<b>report</b>	0
TSS mg/l ave	10	14	11	10	14	<b>12</b>	16.0	<b>&lt;145</b>	0
TSS mg/l max	21	15	12	12	21	<b>16</b>	24.0	<b>report</b>	0
TSS % removal	96.6	95.1	99.7	95.1	99.7	<b>97.1</b>	93.8	<b>&gt;50</b>	0
BOD lbs/min	4	2	4	2	4	<b>3.3</b>	9.5	<b>&lt;107</b>	0
BOD lbs max	34	5	6	5	34	<b>15</b>	43.6	<b>report</b>	0
BOD mg/l ave	73	87	94	73	94	<b>85</b>	<b>164.1</b>	<b>&lt;203</b>	0
BOD mg/l max	127	114	121	114	127	<b>121</b>	232.9	<b>report</b>	0
BOD % removal	74.8	70	68.5	68.5	74.8	<b>70.9</b>	43.5	<b>&gt;30</b>	0
pH low	6.7	6.7	6.7	6.7	6.7	<b>6.7</b>	6.7	<b>&gt;6.0</b>	0
pH high	6.9	7.0	7.0	6.9	7.0	<b>7.0</b>	6.9	<b>&lt;9.0</b>	0
St solids ml/l av	0.07	0.1	0.1	0.07	0.1	<b>0.09</b>	0.1	<b>report</b>	0
TRC mg/l max	0.03	0.03	0.02	0.02	0.03	<b>0.03</b>	0.03	<b>&lt;0.3</b>	0
Fecal cfu ave	<4	<4	<4	<4	<4	<b>&lt;4</b>	<4	<b>&lt;14</b>	0
Fecal cfu max	<4	<4	<4	<4	<4	<b>&lt;4</b>	<4	<b>&lt;31</b>	0
Enterocfu ave	n/a	n/a	n/a	n/a	n/a	<b>n/a</b>	<5	<b>&lt;8</b>	0
Enterocfu max	n/a	n/a	n/a	n/a	n/a	<b>n/a</b>	211	<b>&lt;54</b>	0
Hg ng/l ave	n/a	n/a	n/a	n/a	n/a	<b>n/a</b>	3.5	<b>33.4</b>	0
Hg ng/l max	n/a	n/a	n/a	n/a	n/a	<b>n/a</b>	3.5	<b>50.1</b>	0

1. In March 2025 we experienced the lowest BOD Concentrations for some time including all of 2024.
2. March 2025 we experienced a 73 BOD avg mgl and a 74.8 percent BOD removal.
3. PLC was repaired and daily readings restored on 1-7-25. Pricing is being obtained to replace or fix the flow recorder.
4. Moore's Septage pumped first 2 tanks on each train April 4<sup>th</sup> 2025, Feb 14, 2024.
5. Moor's will pump all tanks on June 27, 2025.
6. We have scheduled the 3 pump outs for 2025 as recommended in the recently completed Crowley Loading Study for the village. April 4, June 27 and Oct. 3.
7. The flow meter was calibrate on April 4, 2025.
8. A new flow recorder was installed, calibrated and recording on April 4, 2025.
9. Final Permit received from EPA on 2-19-25 Jim Crowley has submitted comments to EPA and MDEP regarding the draft permit. These are all minor in nature spelling etc and factual corrections.
10. There is also a public education required of primary waivers. That will be conducted at the April meeting and will also be presented at the Donuts & Dialogue this summer.
11. The required certification complying with the Maine Coastal Program has been processed.
12. Work is complete on upgrading the Wet Weather Plan.
13. The Operations & Maintenance Plans is required to be upgraded and work is under way.
14. 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, resulting in a June 2024 daily average of 40,632 gallons with a 63,000 gpd permit limit.
15. I am working with Dirigo Engineering to schedule Cctv work under the FSP and CAP Program.

## **Drinking Water Department**

### March 2025 Production and Water Quality.

Purchased water for the month averaged 9265 gpd compared to 11702 gpd for the same month in 2024. The weekly free chlorine residual in the drinking water ranged from 0.21 - 0.40 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 detectable 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.

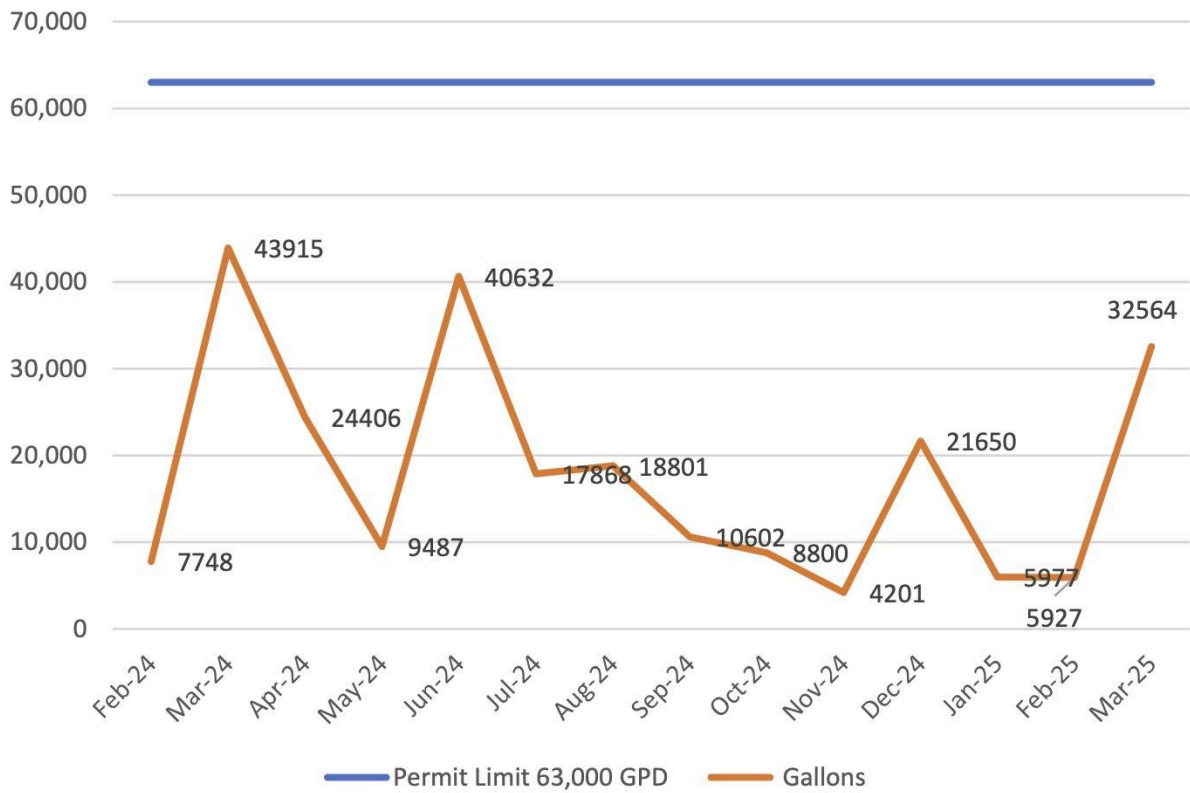
1. Some of the difference in usage readings between 2024 and 2025 are likely due to the leak discovered in January 2025 by Bill Paige.
2. The new 6 inch meter was installed on Feb. 29<sup>th</sup> 2024.
3. Two Rates structures have been approved by the Maine PUC 1.5 percent annual, one-time 25 percent increase.
4. Following up with MPUC on Town of Northport Fire Protection Charges.
5. At this time and the one-time meter replacement fee is on hold until we can experience revenues produced by the rate increases.
6. Lead service line work concluded on Oct. 16, 2024.

February 24 - March 2025 Northport Village

Flow Bod TSS Data

	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
<b>Flow Avg</b>														
Gals	7748	43915	24406	9487	40632	17868	18801	10602	8800	4201	21650	5977	5927	32564
<b>BOD mg/l</b>														
max	270	350	240	360	230	254	205	180	153	185	125	121	114	127
avg	223	170	147	248	139	74	174	159	110	142	92	94	87	73
<b>TSS mg/l</b>														
max	16	7.7	9.7	13	22	42	64	44	26	27	18	12	15	21
avg	11.8	6	7.6	16	15	34	40	36	18	20	13	11	11	10

## February 2024 - March 2025 Daily Flow Average



February 2024 - March 2025 BOD (mg/L)

