

Feb. 9, 2024

Utility Department Monthly Operating Report Sewer Department

Jan. 2024 Effluent Monitoring Data

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

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

WWTP Monthly Performance Table

Parameters	Jan.	Dec.	Nov.	YTD Low	YTD Hi	YTD Ave	2023 Ave	DEP Limit	YTD Exceed- acnes
Flow GPD	18633	30030	13338	18633	18633	18633	20449	63,000	0
Precip inches	1.94	8.07	2.79	1.94	1.94	1.94		n/a	0
TSS lbs/min	0.4	1	0.26	0.4	0.4	0.4	1.36	<76	0
TSS lbs max	1.6	9	2.25	1.6	1.6	1.6	3.09	report	0
TSS mg/l ave	6.0	4.6	7.7	6.0	6.0	6.0	10.6	<145	0
TSS mg/l max	7.7	5.8	14	7.7	7.7	7.7	12.9	report	0
TSS % removal	97.9	96.8	97.3	97.9	97.9	97.9	96.1	>50	0
BOD lbs/min	9	11	6.31	9	9	9	19.7	<107	0
BOD lbs max	52	278	33.45	52	52	52	65.6	report	0
BOD mg/l ave	192	113	126	192	192	192	178	<203	0
BOD mg/l max	240	150	170	240	240	240	259.1	report	0
BOD % removal	33.8	44.3	56.5	33.8	33.8	33.8	39.4	>30	0
pH low	6.7	6.7	6.7	6.7	6.7	6.7	6.7	>6.0	0
pH high	6.9	7.0	6.9	6.9	6.9	6.9	6.9	<9.0	0
St solids ml/l	0.1	0.1	0.1	0.1	0.1	0.1	0.1	report	0
TRC mg/l max	0.05	0.05	0.04	0.05	0.05	0.05	0.066	<0.3	0
Fecal cfu ave	<4	<4	<4	<4	<4	<4	<4	<14	0
Fecal cfu max	<4	<4	<4	<4	<4	<4	<4	<31	0
Enterococcus cfu ave	n/a	n/a	n/a	n/a	n/a	n/a	108	<8	0
Enterococcus cfu max	n/a	n/a	n/a	n/a	n/a	n/a	9680	<54	0
Hg ng/l ave	n/a	n/a	n/a	n/a	n/a	n/a	4.1	33.4	0
Hg ng/l max	n/a	n/a	n/a	n/a	n/a	n/a	4.1	50.1	0

1. December mercury test result came in January was a 4.1 ppt
2. BOD concentration is up last week in January and first week in February.
3. Moore's Septage is scheduled to pump first 2 tanks on each train Feb. 14, 2024.
4. EPA renewal application was submitted on 11-29-23
5. MDEP Inspection still waiting on final report

Drinking Water Department

January 2024 Production and Water Quality.

Purchased water for the month averaged 9,530 gpd compared to 14,839 gpd for the same month in 2023. The weekly free chlorine residual in the drinking water ranged from 0.24 - 0.31 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl₂ 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.

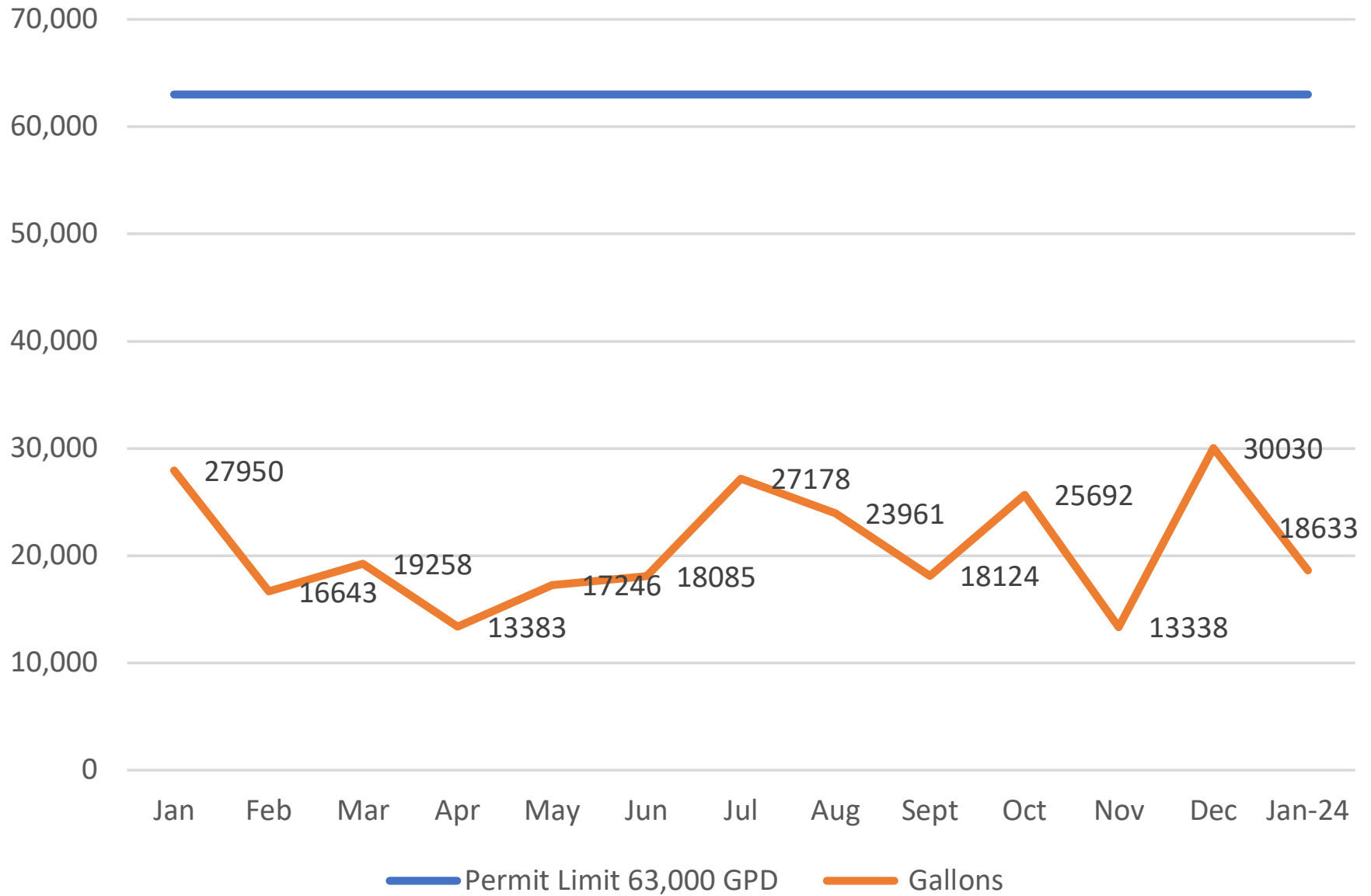
- 1. Meter problems began in January so water usage is artificially low**
- 2. Belfast water bills will be averaged during the time of the faulty meter**
- 3. RCAP continues work on water rate increase**
- 4. Four increase meter at the Belfast water vault failed and can not be repaired**
- 5. A new 6 inch meter is ordered and will increase fire flows from 1000 gallon to 2000 gallons per minute**
- 6. The approximate cost for the meter replacement is \$8,000 and will come from the water reserve account**
- 7. Northport Fire Department may contribute to the cost of increased meter replacement to 6 inch**

2023 - Jan 24 Northport Village

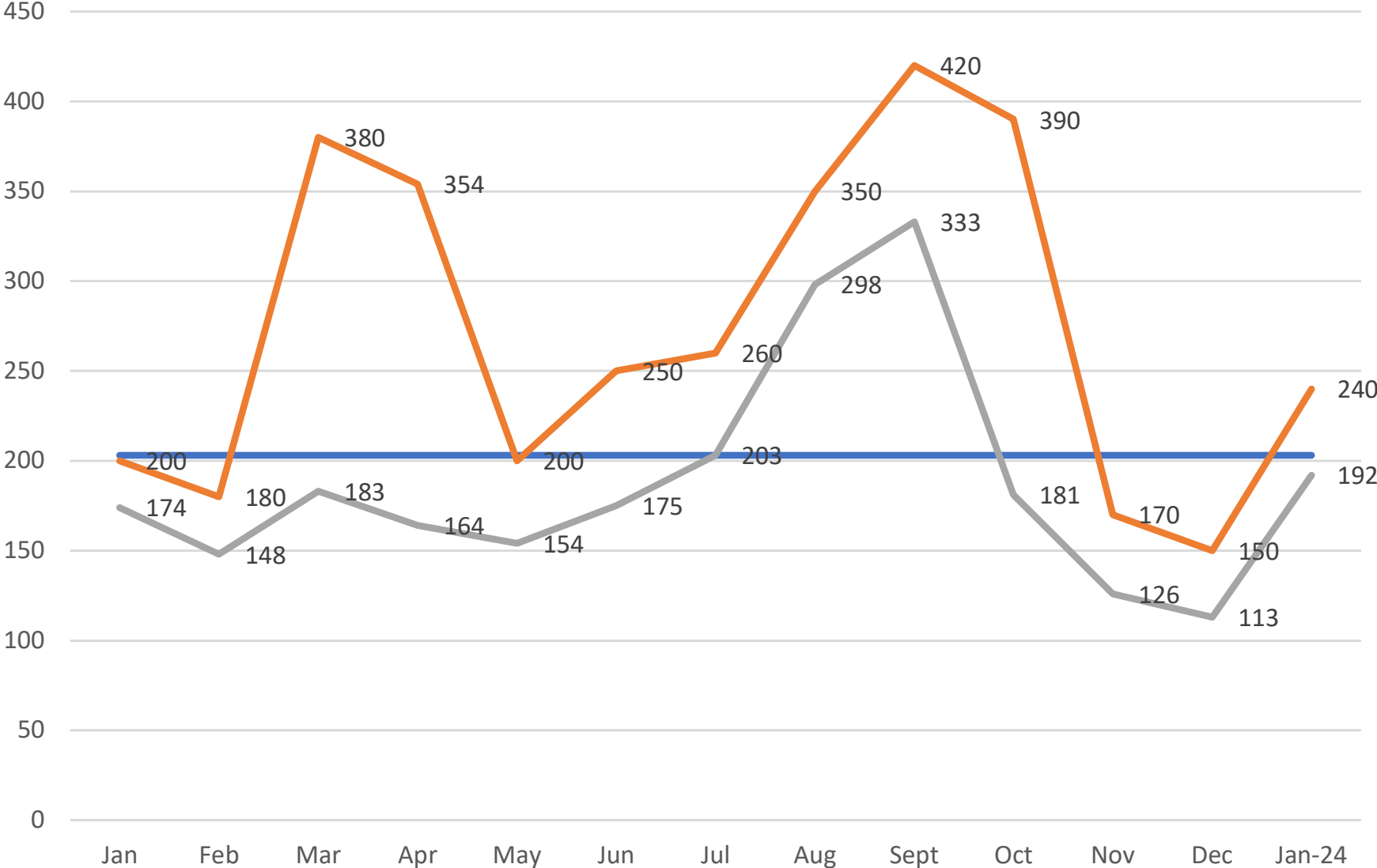
Flow Bod TSS Data

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	24-Jan
Flow Avg	permit limit 63,000 gpd												
Gals	27950	16643	19258	13383	17246	18085	27178	23961	18124	25692	13338	30030	18633
BOD mg/l	permit limit 203 mg/l monthly average												
max	200	180	380	354	200	250	260	350	420	390	170	150	240
avg	174	148	183	164	154	175	203	298	333	181	126	113	192
TSS mg/l	permit limit 145 mg/l monthly average												
max	14	9.2	13	13	13	16	16	19	18	17	14	5.8	7.7
avg	10	8.7	10	9	9	12	15	17	15	8	8	4.6	6

2023-Jan 24 Daily Flow Average



2023 - Jan 24 BOD (mg/L)



— Permit Limit (203 mg/L) — max — avg

2023-Jan 24 TSS (mg/L)

