

March 8, 2024

## Utility Department Monthly Operating Report Sewer Department

### Feb. 2024 Effluent Monitoring Data

During the Feb operating period there were two 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	Feb.	Jan.	Dec.	YTD Low	YTD Hi	YTD Ave	2023 Ave	DEP Limit	YTD Exceed- ances
Flow GPD	7748	18633	30030	7748	18633	13191	20449	63,000	0
Precip inches	1.01	1.94	8.07	1.01	1.94	1.48	n/a	n/a	0
TSS lbs/min	0.5	0.4	1	0.4	0.5	0.5	1.36	<76	0
TSS lbs max	0.7	1.6	9	0.7	1.6	1.15	3.09	report	0
TSS mg/l ave	11.8	6.0	4.6	6.0	11.8	8.9	10.6	<145	0
TSS mg/l max	16	7.7	5.8	7.7	16	11.9	12.9	report	0
TSS % removal	95.9	97.9	96.8	95.9	97.9	96.9	96.1	>50	0
BOD lbs/min	8.4	9	11	8.4	9	8.7	19.7	<107	0
BOD lbs max	12.3	52	278	12.3	52	32.2	65.6	report	0
BOD mg/l ave	222.5	192	113	192	222.5	207.3	178	<203	1
BOD mg/l max	270	240	150	240	270	255	259.1	report	0
BOD % removal	23.2	33.8	44.3	23.2	33.8	28.5	39.4	>30	1
pH low	6.7	6.7	6.7	6.7	6.7	6.7	6.7	>6.0	0
pH high	6.9	6.9	7.0	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	0.05	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
Entero cfu ave	n/a	n/a	n/a	n/a	n/a	n/a	108	<8	0
Entero 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 see attached

## Drinking Water Department

### February 2024 Production and Water Quality.

Purchased water for the month averaged 15485 gpd compared to 12,523 gpd for the same month in 2023. The weekly free chlorine residual in the drinking water ranged from 0.24 - 0.28 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. **Meter problems began in January so water usage was artificially low**
2. **The new 6 inch meter was installed on Feb. 29<sup>th</sup>**
3. **RCAP continues work on water rate increase**
4. **NVC is supplying financials to help complete the rate increase**
5. **6 inch meter will increase fire flows from 1000 gallon to 2000 gallons per minute**

Good Morning NVC Utilities

Rachel Rosa  
7 Auditorium Park

I have completed the RCAP Rate and Asset Management training last month and have attached one of the four documents requested to read before participating in the program. The Basics of Financial Management For Small Community Utilities provides information that is of interest to you. I ask that you please read it. Some of the best practice information I learned is that reserves should be planned and funded into separate dedicated reserve accounts. Rates should be assessed at least every three years. This doesn't mean budgets it means rates. USDA loans typically require a separate reserve account to cover 10% of the asset to provide for future capital improvements. If the Utility is concerned about the ability of lower income ratepayers to pay for usage then a rate review is in the Utilities and ratepayers best interest. Best practices seem to show a very different view of utility management than budget only considerations.

Sewer Utility – If you have to pump out trains in February after a pump out in September to comply with DEP discharge regulations it is obvious that year round residences are having a significant impact on the system.

Water Utility – It would be easy to determine how much water loss the NVC Water Utility is paying for from Belfast compared to the amount of water billed to and received from ratepayers March to March. I am confident that the CUSI billing software has billed water usage information. That information might make a difference in the conversation regarding replacing 25 year old water meters.

Thank you.