

NVC Utilities Committee Meeting
September 10, 2021
Community Hall
2:30 pm (masks and/or social distancing)
Also via Zoom Connection

Present: Chairman David Crofoot, Jeffrey Wilt, Judy Metcalf (by ZOOM), Casey Brown, Supt. Dick McElhaney, Bill Paige, also Dan and Lisa Webster
Absent: Brady Brim-DeForest

Agenda

Minutes of the August 13, 2021 meeting were approved unanimously

Financial report- deferred

Superintendent's Report:

Wastewater: Supt. McElhaney presented the results of sewer treatment for July. Flow was high due to high rainfall. BOD was high due to full house occupancy. But there were no violations for July. However, there were two positive tests for enterococcus and one for coliforms in August and a reading for BOD⁵ of 242 mg/L exceeded our license limit. The chlorine concentrations are 20-25 times higher than what were used previously. The possibility of false positives has not yet been resolved. Specimens were sent to IDEXX labs for species confirmation but results are not yet back.

Water: The Interlocal Agreement to Purchase Water between the NVC Water Utility and the Belfast Water District must be renewed every five years. The proposed agreement was reviewed. We feel the agreement should make mention of new fire hydrants.

The potable water system was inspected by an engineer from the Maine Drinking Water program. No significant deficiencies were identified. They recommended disconnection of a hypochlorite injection system that has not been used for the last 20 years and this was done.

They recommended annual flushing of the water mains. Supt. McElhaney pointed out that it is difficult to flush the terminal ends of the mains on Shore Rd. and Bluff Rd. He recommended installation of two new hydrants to enable this at a cost of about \$3000 per hydrant. **Motion** to incorporate this into the 2022 budget was made by Wilt, 2nd by Crofoot. **Voted unanimously.** It was pointed out that the Village budget is tight with no room for two new hydrant fees of \$900 each in their 2022 budget. It was felt that the Water budget could defer payment for a year although the hydrant fees eventually allow the water customers to recoup the cost of hydrant installation.

2 requests for sewer connection:

Dan and Lisa Webster submitted requests for sewer connections for two lots: (U7-7;43 Shore road and U6-751 Shore Road). These are lots of record adjacent to the sewer line. Webster has no immediate plans to build on them but would like to confirm his access to the sewer system. **Motion by Crofoot, 2nd by Wilt** to approve these requests with the usual restrictions. **Unanimously approved**

Planning Board: NVC has a request for a building permit for the wastewater treatment plant before the Northport Planning Board who meets on Tuesday, Sept 14, 2021. We are requesting permission to build permanent stairs and to extend a porch at floor level around the northwest corner to provide access to the generator for maintenance. Janae Novotny and Jeffrey Wilt will attend the meeting.

2022 budget: Dick McElhaney will meet with Wendy Huntoon this month to obtain 2021 actuals to help in construction of the 2022 budget. This will be presented at the October meeting.

Lots of Record and Sewer Capacity:

Crofoot presented data on current sewer customers and the increase since 1985. In 1985 when the NVC was granted a permit for wastewater treatment, it was specifically limited to lots of record adjacent to the wastewater treatment collection mains and that the system should not be expanded beyond 10%.

In 1985 there were about 200 actual customers and there were 251 lots of record within 200 feet of sewer mains. A 10% expansion would set a limit of 276.

Since 1985, houses have been constructed on 33 lots of record. Five more lots of record have been granted permission to connect although houses have not yet been built upon them. There are only 8 remaining unbuilt /unpermitted lots of record. Since 1985, another 11 connections have been allowed on subdivided lots for a variety of reasons.

The current customer count with these unbuilt lots is about 253.

In the end, the decision of whether to grant permission to connect is based on the capacity of the treatment plant to handle wastewater without violating the conditions of the license, as determined by the Superintendent.

Next meeting: Friday, October 8 at 2: 30 in the Community Hall.

Respectfully submitted,
David D. Crofoot, Chairman

Addendum:
September 10, 2021

Utility Department Monthly Operating Report

Sewer Department

July 2021 Effluent Monitoring Data

During the month no exceedances or violations of the special or standard conditions of the MDEP or EPA discharge permit or license were reported.

WTP Monthly Performance Table

Parameters	July	June	May	YTD Lo	YTD Hi	YTD Ave	2020 Ave	DEP Limit	YTD Exceed-ances
Flow GPD	31967	10060	13384	5643	31967	15152	12718	<63,000	0
Precip inches	10.10	2.18	2.65	1.58	10.10	3.45	3.17	n/a	0
TSS lbs/day	7.6	2.8	1.7	0.9	7.6	2.5	1.6	<76	0
TSS lbs max	11.4	5.8	2.3	1.7	11.4	5.2	na	report	0
TSS mg/l	38.8	44.3	18.8	16.5	44.3	30.1	23.2	<145	0
TSS mg/l max	62	58	29	26	64	44.4	na	report	0
TSS % removal	78.6	80.0	93.5	80.0	94.3	87.3	92.7	>50	0
BOD lbs/day	23.2	9.8	12.2	2.8	23.2	9.3	6.3	<107	0
BOD lbs max	34.1	16.5	30.8	6.1	34.1	17.6	na	report	0
BOD mg/l	114.6	155.0	100	37.2	155.0	125.2	81.1	<203	0
BOD mg/l max	170	230	160	51	230	115.5	na	report	0
BOD % removal	41.4	46.6	65.5	41.4	87.2	64.5	69.7	>30	0
pH low	6.5	6.5	6.6	6.5	6.6	6.5	6.6	>6.0	0
pH high	6.7	6.7	6.8	6.7	6.8	6.8	6.9	<9.0	0
St solids ml/l	0.2	0.18	0.1	0.1	0.15	0.14	0.13	report	0
TRC mg/l max	0.02	0.03	0.03	0.02	0.03	.03	.02	<0.3	0
Fecal cfu ave	<8	<8	<8	<8	<8	<8	11.34	<14	0
Fecal cfu max	<8	<8	<8	<8	<8	<8	20.24	<31	0
Enteroc cfu ave	<8	<8	<8	<8	14.54	9.29	12.23	<8	1
Enteroc cfu max	8	<8	<8	<8	48	12.52	40.65	<54	0
Hg ng/l ave	na	na	na	na	na	na	14.4	33.4	0
Hg ng/l max	na	na	na	na	na	na	14.4	50.1	0

Note: The last exceedance for flow was 183 months ago (2/2006). The last exceedance for BOD was 81 months ago (9/2014). The last exceedance for fecal coliform was 13 months ago (7/2020). The last exceedance for enterococci ave was 4 months ago (4/2021). The record annual average low for flow was 12,017 gpd in 2017.

Drinking Water Department

July 2021 Production and Water Quality.

Purchased water for the month averaged 39,547 gpd compared to 45,554 gpd for the same month in 2020. The weekly free chlorine residual in the drinking water ranged from 0.13 - 0.33 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl². The EPA maximum concentration level (MCL) not to be exceeded for chlorine residual is 4.0 ppm. The monthly total and e-coli water sample test results were both negative.

Interlocal Agreement between the Belfast Water District and Northport Village Corporation for Purchase of Water

Attached is the Interlocal Agreement and cover letter for the purchase of water from Belfast. The agreement is reviewed every five years and is now due. Keeping with the past, the agreement should be signed by the Overseers hopefully this Sunday for submittal to Belfast for their Board signatures and approval of the agreement at their next board meeting. Paragraph 4 c Section 2. (4) is revised.

Sanitary Survey Inspection PWSID ME0091165

A Sanitary Survey of the NVC's water treatment and distribution system was performed by the Maine Drinking Water Program on July 30, 2021. Sanitary Surveys of public water systems are required by rule every three (3) years.

- There were no significant deficiencies discovered
- A cross connection between the sodium hypochlorite metering pump and the injection point should be disconnected since this supplemental treatment is not active. The cross connection was disconnected Friday, August 2, 2021
- It was recommended the NVC begin flushing the distribution system annually since the installation of additional fire hydrants have been installed in the core of the Village. Certainly the Water Department would not discourage anyone from suggesting the installation of two more fire hydrants at the long dead ends of the water main on the roads of Shore and Bluff to better assist the Department (Bill) in executing an effective flushing program.
- It was suggested that the Water Department check with the local restaurant to establish if their Reduced Pressure Zone (RPZ) backflow preventer is being tested annually.

The follow up letter to the Sanitary Survey dated August 25, 2021 is attached herewith under separate cover.

