

Northport Village Corporation

January 12, 2018

Utilities Meeting Minutes

Attendees:

Superintendent: Richard McElhaney
Village Agent: William Paige
Office Manager: Amy Eldridge

Utilities Board Members Present:

Chairman: Dr. David Crofoot
Judy Metcalf
Wendy Huntoon

Visitors: Jerry Reid

Meeting Called to order: at 2:39 pm

Approval of Minutes: Judy M. moved to approve the minutes; Wendy H. seconded the motion all in favor

Financials:

Water - Dick M. reported that Hydrant rentals were billed out and paid. Amy E. will double check to make sure that the Hydrants receipts were coded correctly. The Services Fees that were in question last month was corrected. He mentioned that the Utilities Department was under budgeted on employee benefits for 2017 and that he is working with Steve K. on line item 4013 (service fees). Judy M. is going to work Amy, the bookkeepers, and Steve to determine how deposits and misc. charges are assessed to determine variances on the P & L for water.

Sewer – Dick M. reported that we had under budgeted for employee benefits. The trustees discussed that occurred as a consequence of the establishment of an HSA account for the benefit of an employee approved by the Overseers. He also reported that there is maintenance anticipated in FY 2017 that was needed for service of the pumps has not been completed. That project (and, therefore, expense) will be a priority for 2018. Dick M. will try again to contact Stevens Electric.

Visitor Concerns: Jerry Reid expressed is concerns about paying extra utility payments in 2017. Dick M. encouraged Mr. Reid to contact him so they could discuss his concerns on the billing for 2017. (The trimesterly billing periods remain the same; just the timing of the mailing of the bills changed. Some users find themselves paying 4 bills in 2017 but that is because they paid the bill received in the middle of December in December. As stated on the bills, they had thirty days to pay).

Judy M. reported concerns a utility customer had provided to her. Jane Strauss sent out a letter about the bushes and the access to the pump station to which the Village has an easement on her property. Because of her placement of a gate in the easement area, snow sometimes prevents her gate from opening. She reported that the person from Lawns R Us (Basil Littlefield) caused damaged to the fence when he couldn't get through the gate. This poses a concern because that is the enclosure for her pet.

Bill P. has talked with Lawns R Us and they report that that employee will no longer be working on this area.

Dick M. reported that Angela Cassidy had a comment about a service fee that she was charged on her statement. He was able to communicate with Angela about why the service fee was there. The Trustees want to remind water customer that there is a fee of \$25 in the spring and in the fall related to meter installation and removal. Even if a customer hires a private plumber to handle the closing of their cottage, the fee is assessed and due.

Dick M. reported a 30 gpm leak in the water distribution system that was discovered this Friday morning January 12th. Bill P. is in the process of investigating the source.

Utility Superintendent's Report

January 12, 2018

Sewer Department

November 2017 Effluent Monitoring Data

The NVC Wastewater Treatment Plant (WTP) was in full compliance with its wastewater discharge license in November. There were no license exceedances.

Flow averaged 3,457 gpd compared to 9,823 gpd in 2016. Daily flow ranged from a low of 600 gpd to a high of 11,600 gpd during the month. Precipitation for the month was 2.34" versus 6.12" in 2016.

TSS and BOD⁵ averaged 0.6 lbs/day (28.4 mg/l) and 1.9 lbs/day (80 mg/l), respectively compared to 4.3 lbs/day (28 mg/l) and 13.7 lbs/day (66 mg/l) in 2016.

See performance table below for this month's comparisons, averages, year-to-date highs and lows, permit limits, and year-to-date (YTD) exceedances. Testing frequency is continuous for flow, weekly for TSS, BOD⁵ and fecal coliform (May thru Sept), daily for pH and settleable solids (S.S.), and twice per day for total residual chlorine (May thru Sept).

Monthly Performance Table

Parameters	November	October	September	YTD Lo	YTD Hi	YTD Ave	2016 Ave	DEP Monthly Limit	Exceedances
Flow GPD	3457	2,603	5160	2,603	24323	12391	14713	<63000	0
Precip Inches	2.34	4.22	2.45	1.24	7.05	3.31	3.53	n/a	0
TSS lbs/day	0.6	1.1	2.0	0.6	4.9	1.92	2.7	<76	0
TSS mg/l	28.4	41.5	47	5.7	55.0	28.13	26.8	<145	0
BOD ⁵ lbs/day	1.9	2.2	3.0	1.1	13.9	5.34	7.6	<107	0
BOD ⁵ mg/l	80	87.5	73.3	16.4	171.1	72.8	77.1	<203	0
TSS% Removal	90.2	85.7	83.8	81.0	98.0	91.0	90.2	>50	0
BOD% Removal	72.4	69.8	74.7	41.0	94.4	74.9	73.8	>30	0
pH lo	6.8	6.7	6.7	6.6	6.8	6.66	6.75	>6.0	0
pH Hi	7.1	7.1	7.1	6.9	7.1	7.05	6.98	<9.0	0
S.S. ml/l	<0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	Report	0
TRC mg/l	na	na	0.02	.02	.02	0.02	0.02	<.052	0
F Col/100 ml	na	na	<1	<1	<1	<1	<1	<15-ave	0
F Col/100 ml	na	na	<1	<1	<1	<1	<1	<50-max	0

Note: The last exceedance for flow was *139 months ago (2/2006)*. The last exceedance for fecal coliform was *62 months ago (8/2012)*. The last exceedance for BOD was *37 months ago (9/2014)*.

December 2017 Snapshot

The NVC WTP is expected to be in full compliance with its license limits in December pending the DEP’s completed review of the NVC’s discharge monitoring report. Flow averaged 7,906 gpd. The report for precipitation as measured by the Belfast Water District (BWD) at their Little River Station was 3.63 inches.

Winter Cyclone Grayson

Dubbed as the "bomb cyclone" or "bombogenesis" because of a rapid drop in atmospheric pressure of 51 millibars or 1.51 inches of mercury over a period of 24 hours, a rare winter cyclone swept through the mid-coast area on Thursday, January 4 dumping around a foot of snow and with it winds gusting to near hurricane forces. As luck would have it, there were no reported power outages or damages to the pier or treatment plant control building as would be feared.

Accompanying the snow and high winds was an estimated 2 foot tidal surge that coincided with an astronomical high tide of 12.6 feet (normal high tide is 10 feet). The resulting 14.6 foot tide effectively overtopped the 12 inch V- notch weir that measures flow for a period of about one hour as recorded on the weekly flow chart. This flooding of the weir resulted in a false positive flow of about 29,000 gallons during the 24 hour day compared to the trending flows of about 6,000 gpd before and after the high tide storm event.

The colored photos below show two sea levels at differing high tides relative to the north and south viewpoints of the pier. The first Gordon Fuller photo was taken at the height of the 14.6 foot tide during the January 4 storm. The second photo, which shows the opposite side of the pier, was taken on December 4, 2017 during calm seas and at the height of a 13.1 foot high tide. For comparison, the downstream water level of the V-notch weir was observed to be about 2-3 inches below the crotch of weir at that moment in time. This was also corroborated on the weekly flow chart.



Drinking Water Department

November 2017 Usage and Water Quality

Water consumption for November averaged 11,568 gpd compared to 11,905 gpd in 2016. The weekly free chlorine residual in the drinking water ranged from 0.05 - 0.11 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl². The EPA maximum concentration level (MCL) not to be exceeded is 4.0 ppm.

There were no leaks to the water distribution system reported or discovered during the month. The monthly total and e-coli water sample test results were negative.

Discussions: February 16th 2018 is the next meeting.

Meeting Adjourned: at 3:35 pm.