

NVC Utilities Committee
Minutes of Friday, July 9, 2021 meeting

Meeting convened at 2:30 p.m.

Present: Committee members Brown, Crofoot (chmn.), Metcalf, Novotny, Wilt, Supt. McElhaney, Bill Paige, NVC Treasurer Wendy Huntoon (by Zoom); also Rob Sherman, Svea Tullberg, Vincent Abado

Minutes of the June 11, 2021 were unanimously **approved**.

There were two **pending applications for sewer connections**:

Svea Tullberg and Vincent Abado who own a property at the corner of George and Griffin Streets applied for permission to connect. Review of their application showed that they have a lot of record and that they will need to limit the length of the culvert under their driveway on Griffin Street to allow the sewer line to pass without passing under the driveway culvert and to remain at least three feet from the guy wire to a CMP pole.. They provided photos to show that this could be done. **Motion by Metcalf** to approve their application with these conditions was seconded and **passed unanimously**.

John Woolsey applied for a sewer connection to a triangular lot between West, Clinton, and George Streets. After discussion, it was felt that the sewer connection should pass to West Street which has a 6" sewer main. Woolsey intends to sell this lot and wished to have permission for sewer connection recorded before the sales agreement. **Motion by Metcalf** to approve this application conditionally based on results of a site visit by Superintendant and conformance with plumbing codes was **passed unanimously**.

Financials Review.

Financial reports for the two utilities were provided by Treasurer Wendy Huntoon two hours before the meeting. Review of the water budget revealed a > \$30,000 overrun of line 6190 (Legal and Professional Fees). It was the consensus that this expense had been inappropriately allocated to this line and probably represented expenses related to construction of the wastewater treatment plant (line 8225). Treasurer Huntoon will work with Bookkeeper Nina Richard to correct this and to see that money from the reserve account is brought back into the checking account to pay these expenses.

The need to provide the Superintendant with detailed expense sheets that allow him to correctly allocate income and expenses was once again stressed. Treasurer Huntoon proposed a monthly Friday meeting with Bookkeeper Richards, the Treasurer, the Superintendant and Bill Paige. The first such meeting will take place on Friday, July 16, 2021.

Bill Paige expressed the need for an income line item into which sewer development charges will be deposited (line 4510). Actual charges for sewer and water installation will then be drawn from a separate line item.

Sewer system capacity

There has been a steady increase in sewer customers as lots of record are built upon. The wastewater treatment plant was designed to serve only those houses already connected or on such small lots that they could not support conventional septic systems. The Sewer Utility has a policy that sewer mains will not be extended. The number of connections now stands at 247 before the approval of two applications today.

One condition of our license and 401H waiver was that the sewer system was not to be expanded beyond the existing lots of record in 1985 plus a 10% expansion of capacity granted to Kelly Cove Subdivision.

The Trustees expressed the need to record how many remaining lots of record exist within the service area of the sewer mains and how many connections can be added without taxing the ability of the treatment plant to successfully treat wastewater during peak season.

The Committee members will research the existing connections and remaining lots of record.

Superintendent's report (appended to these minutes)

There were no violations of license limits.

There were three significant equipment failures:

The ultrasonic pool level transducer that measures wastewater flow failed. This 20-year old instrument was replaced and recalibrated at a cost of about \$1400.

The Teledyne/Isco Refrigerated sampler also failed. A rental replacement was installed while the existing unit is repaired. Rental cost \$600. Replacement cost would be @\$4000.

One of the two pumps at the South Shore pump station kept tripping its breaker. Stevens Electric pulled and examined the pump. They found that wipes flushed into the wastewater stream had clogged the pump. The superintendent stressed the "3 P rule": the only substances that should be flushed are Pee, Poop, and toilet Paper. A notice will be sent to Dan Webster's web site and this rule will be stressed at the Annual Meeting.

The flow and pressure from the fire hydrants was tested and each hydrant will be color coded according to its flow capacity.

Craftsmen from the Village have generously volunteered to beautify the new wastewater treatment plant by addition of latticework slats along the base, construction of permanent stairs, and the possible addition of a railed porch along the west side facing the park. Application to the Town of Northport for a building permit for an additional 27-33 square feet for the porch and railings has been submitted and the hearing of the Planning Board will take place on Tuesday, July 13. The existing plant covers 176 square feet and this addition would represent a 15.3-

18% increase in square footage. Rob Sherman explained the building project outlined and designed by Dick Brockway and himself.

Meeting adjourned at 4 pm.

Respectfully submitted,

David D. Crofoot, chmn.

Addendum-Superintendent's Report:

July 9, 2021

Utility Department Monthly Operating Report

Sewer Department

May 2021 Effluent Monitoring Data

During the month there were 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	May	April	Mar	YTD Lo	YTD Hi	YTD Ave	2020 Ave	DEP Limit	YTD Exceed-ances
Flow GPD	13384	18187	16840	5643	18187	12807	12718	<63,000	0
Precip inches	2.65	3.25	1.58	1.58	3.25	2.37	3.17	n/a	0
TSS lbs/day	1.7	0.9	2.5	0.9	2.5	1.7	1.6	<76	0
TSS lbs max	2.3	1.7	3.8	1.7	4.6	3.8	na	report	0
TSS mg/l	18.8	31.2	16.5	16.5	38	25.6	23.2	<145	0
TSS mg/l max	29	64	26	26	64	38.2	na	report	0
TSS % removal	93.5	89.3	94.3	83.1	94.3	90.5	92.7	>50	0
BOD lbs/day	12.2	6.6	6.4	2.8	12.2	6.4	6.3	<107	0
BOD lbs max	30.8	15.9	11.1	6.1	30.8	14.5	na	report	0
BOD mg/l	100	114.8	37.2	37.2	114.8	79.2	81.1	<203	0
BOD mg/l max	160	140	51	51	160	106.4	na	report	0
BOD % removal	65.5	60.4	87.2	60.4	87.2	72.7	69.7	>30	0
pH low	6.6	6.6	6.5	6.5	6.6	6.5	6.6	>6.0	0
pH high	6.8	6.8	6.8	6.7	6.8	6.8	6.9	<9.0	0
St solids ml/l	0.1	0.1	0.1	0.1	0.15	0.11	0.13	report	0
TRC mg/l max	0.03	0.02	na	0.02	0.03	na	.02	<0.3	0
Fecal cfu ave	<8	<8	na	<8	<8	<8	11.34	<14	0
Fecal cfu max	<8	<8	na	<8	<8	<8	20.24	<31	0
Entero cfu ave	<8	14.54	na	<8	14.54	10.8	12.23	<8	1
Entero cfu max	<8	48	na	<8	48	19.6	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 181 months ago (2/2006). The last exceedance for BOD was 79 months ago (9/2014). The last exceedance for fecal coliform was on July 31, 2020. The last exceedance for enterococci ave was April, 2021. The record annual average low for flow was 12,017 gpd in 2017.

Flow Measuring Device

The ultrasonic pool level transmitter bit the dust after over 20 years of service. A new one was purchased through USA Bluebook and was installed and programmed by Dirigo Engineering.

Teledyne/Isco Refrigerated Sampler.

The refrigeration section of the Isco Effluent composite sampler failed and has been returned to the manufacturer for repairs. A rental has been received from Isco in its place until the NVC one can be repaired and returned.

Drinking Water Department

May 2021 Production and Water Quality.

Purchased water for the month averaged 24,864 gpd compared to 21,948 gpd for the same month in 2020. The weekly free chlorine residual in the drinking water ranged from 0.24 - 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. There were no reported or discovered leaks in the water distribution system.

Hydrant Flow Test.

EJP, Inc was called in to conduct flow tests the Fire Hydrants at Merithew Square, Shore Road and the fire pond hydrant at the corner George and Sea Street.

- Merithew Square - Static Pressure 75 PSI; Flow Rate 750 gpm @ 20 PSI
- 763 Shore Road – Static Pressure 96 PSI; Flow Rate 840 GPM @ 25 PSI
- Fire Pond Hydrant – Static Pressure 44 PSI; Flow Rate 530 GPM @ 10 PSI

Hydrants will be color coded to match the flow capacities of each hydrant for the benefit of Fire Fighters and first responders. The fire pond hydrant will also be marked as non-potable water.