

Northport Village Corporation

September 15, 2017

Utilities Meeting Minutes

Attendees:

Chairman: Dr. David Crofoot
Superintendent: Richard McElhaney
Village Agent: William Paige
Office Manager: Amy Eldridge

Utilities Board Members Present:

Judy Metcalf
Dick Brockway
Wendy Huntoon – on phone
Gordon Fuller

Visitors: None

Meeting Called to order: Judy M. called the meeting to order at 4:30 pm

Approval of Minutes: Dick B. moved to approve the August minutes, Gordon F. seconded the motion. 5 Approved, 0 Opposed, 0 Abstained.

Financials: Accrual basics for Sewer and Water Financials were discussed. Line items 6255 (Community Hall cleaning), 4180 (New Services Deposits), 6310 (New Service expenses), 1001 (Business Checking) and 4011 (Hydrant Rental) will need to be discussed with Steve Kazilionis to determine variances. Approval of the 2018 Utilities budget is a goal the Utilities Committee has for the November Overseers meeting.

Visitor Concerns: None

Report of the Superintendent: Dick M. went over the Superintendents Report (appendix A). Dick mentioned that the lead testing came out with no problems. Fire hydrant has been installed and an extension is going to be added on Monday to complete the job. No digging up of Broadway was needed to install the hydrant. The committee talked about what was going to happen to the old hydrant across the street. Currently there is a sign on the hydrant informing the fire department not use.

Dick M. reported that paint has been dump into the sewer system which resulted in high BOD. This issue was a good example of how BOD can spike up unexpectedly. Judy M. mentioned about provided communication to Village homeowners and companies hired about does and don't on dumping chemicals. Dick M. mentioned previous flyers that the Utilities Department has used in the past that might help with communication.

Hurricane Jose is coming and Dick M. mentioned the emergency plans that the Utilities department has set up. Personnel were informed to read over and be current on the emergency plan procedures. Every month Dick M also mentioned that every month he submits a report of discharge on the DEP website. This month he encountered a technical issue which resulted in Dick M. having to speak to Denise (State representative for the DEP) about the report. She advised Dick M. that he did not need to do anything further online and would let him know if further contact will be needed.

Dick M. mentioned that he would like to accept a proposal from Stevens Electric to complete repairs to the pump station in the amount of \$4,016.00. Judy M. moved to have Bill P. and Dick M. accept the proposal from Steven's Electric. Gordon F. seconded the motion. Discussion: questions about the quality of work Steven's Electric has provided. 5 Approved, 0 Opposed, 0 Abstained.

Discussions: Judy M. made a proposal that an easement be written up for the property owner of the land on Shore Road that the Pump station is located on. Due to the property is owned by the Metcalf family Judy M. mentioned that the Metcalf family should write up the easement and would be willing to pay the lawyer fees. Judy M withdraws herself from the conversation to prevent any conflict of interest. Wendy H. moved to accept the proposal, Gordon F. seconded the motion. Discussion: David C. expressed that the pump station is on the town right of way and not on the Metcalf property. David moved to table the motion on the proposal by the Metcalf family about the property on the Shore Road that the pump station is located on. Gordon F. seconded the motion. 4 Approved 0 Opposed 1 Abstained.

Meeting Adjourned: David C. moved to adjourn at 5:49 pm, Judy M. seconded the motion. 5 Approved, 0 Opposed, 0 Abstained.

Next meeting is October 6, 2017 at 2:30 pm in the Community Hall conference room.

Appendix A:

Utility Superintendent’s Report

September 15, 2017

Sewer Department

July 2017 Effluent Monitoring Data

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

Flow averaged 12,252 gpd compared to 17,688 gpd in 2016. Daily flow ranged from a low of 9,500 gpd to a high of 16,500 gpd during the month. Precipitation for the month was 1.24” versus 3.62” in 2016.

TSS and BOD⁵ averaged 4.9 lbs/day (52.0 mg/l) and 13.2 lbs/day (142.5 mg/l), respectively compared to 6.3 lbs/day (46.6 mg/l) and 16.6 lbs/day (124 mg/l) in July of 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 | July | June | May | YTD Lo | YTD Hi | YTD Ave | 2016 Ave | DEP Monthly Limit | Exceedances |
|--------------------------|--------------|------|-------|--------|--------|-------------|----------|-------------------|-------------|
| Flow GPD | 12252 | 9940 | 24323 | 9016 | 24323 | 14947 | 14713 | < 63000 | 0 |
| Precip Inches | 1.24 | 2.51 | 7.05 | 1.24 | 7.05 | 3.51 | 3.53 | n/a | 0 |
| TSS lbs/day | 4.9 | 2.1 | 1.0 | 0.6 | 4.9 | 1.85 | 2.7 | < 76 | 0 |
| TSS mg/l | 52 | 32.2 | 9.0 | 5.7 | 52.0 | 19.7 | 26.8 | < 145 | 0 |
| BOD ⁵ lbs/day | 13.2 | 6.8 | 3.3 | 1.1 | 13.2 | 5.4 | 7.6 | < 107 | 0 |

| | | | | | | | | | |
|-----------------------|----------------|-------|------|------|-------|----------------|------|-------------------|---|
| BOD ⁵ mg/l | 142.5 | 104.8 | 31.0 | 16.4 | 142.5 | 55.6 | 77.1 | <203 | 0 |
| TSS% Removal | 82.1 | 88.9 | 96.9 | 82.1 | 98.0 | 94.3 | 90.2 | >50 | 0 |
| BOD% Removal | 50.9 | 63.9 | 89.3 | 50.9 | 94.4 | 80.9 | 73.8 | >30 | 0 |
| pH lo | 6.8 | 6.7 | 6.7 | 6.6 | 6.8 | 6.63 | 6.75 | >6.0 | 0 |
| pH Hi | 7.1 | 7.0 | 7.0 | 6.9 | 7.1 | 7.01 | 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 | 0.02 | 0.02 | 0.02 | .02 | .02 | 0.02 | 0.02 | <.052 | 0 |
| F Col/100 ml | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <15-ave | 0 |
| F Col/100 ml | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <50-max | 0 |

Note: The last exceedance for flow was *135 months ago (2/2006)*. The last exceedance for fecal coliform was *56 months ago (8/2012)*. The last exceedance for BOD was *33 months ago (9/2014)*.

August 2017 Snapshot

The NVC WTP will be in full compliance with its license limits in August pending the DEP's completed review of the NVC's discharge monitoring report. Flow during the month averaged 10,361 gpd. The report for precipitation as measured by the Belfast Water District (BWD) at their Little River Station was 1.95 inches.

WTP Control Building Electrical Work

Peter Simpson was summoned to replace a light switch and electrical outlet inside the wastewater treatment plant control building. Both had failed because of corrosion.

Shore Road Pump Station Annual Inspection and Electrical Work

Stevens Electric and Pump, at the beginning of the year, was asked to submit a proposal to replace and relocate or eliminate the two electrical junction boxes inside the wet well of the Shore Road Pump Station.

The job if approved will be done in conjunction with their work this fall to do their regular annual inspection and maintenance of the pumps and electrical control panel. The current electrical junction boxes are badly corroded and not up to code for hazardous atmospheres.

A copy of Steven's \$4,016 proposal has been submitted to Board members under separate cover for their review and approval.

USDA RD Walk-around and Review

The USDA, Bangor Office conducted an audit and walk-around of the WTP and CH office with Bill Paige on August 15, 2017.

The USDA reminded the NVC that the following statement "We are an equal opportunity employer and service provider" needs to be added to any upcoming brochures or materials to be printed and to any future websites, if any, that it might develop and own. The Superintendent was also asked to certify to the USDA that the NVC Sewer Department has a written Emergency Response and Vulnerability Assessment Plan that has been updated within the last three years. Two posters were given to the NVC for Amy to post in the office as well.

USDA reviews are completed at loan closings and every three years thereafter.

Drinking Water Department

July 2017 Usage and Water Quality

Water consumption for March averaged 43,203 gpd compared to 41,169 gpd in 2016.

The average weekly free chlorine residual in the drinking water ranged from 0.18 - 0.21 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl². The EPA maximum concentration level (MCL) is 4.0 ppm. The monthly total and e-coli form water sample test results were negative.

Annual Chlorine Disinfection By-Products (DBPs) Testing

Samples of the drinking water from the distribution system were taken on August 4 to test for Total Haloacetic Acids (THAAs) and Total Trihalomethanes (TTHMs). The THAAs test result was below the test detection level of 1 ug/l. The MCL is 60 ug/l. The TTHMs test result was 5.4 ug/l compared to the MCL of 80 ug/l.

Excessive DBPs can result from chemical reactions with organic and inorganic matter in water during the chlorination process and potentially cause cancer, adverse birth outcomes and birth defects such as bladder cancer and for babies being born small.

2017 Tri-annual Copper and Lead Testing

Ten customers of the NVC Water Department participated with the Department to collect first draw samples of water from their kitchen faucets for lead and copper testing in August. Samples were taken between August 12 and August 25 and after their water had been held motionless in their kitchen plumbing for at least 6 hours.

Copper concentration test results ranged from .038 mg/l – 0.2 mg/l. The 90th percentile was .19 mg/l Cu. The copper MCL at the consumer's tap is 1.3 mg/l.

Lead concentration test results ranged from 0.5 ug/l – 2.4 ug/l. The 90th percentile was 1.6 ug/l Pb. The MCL at the consumer's tap for lead in water is 15 ug/l. As required by rule, individual customers have been notified by mail of their respective lead test results.

Lead and copper enter drinking water primarily from a home's plumbing material and may cause health problems to infants and young children ranging from stomach distress to kidney and brain damage if concentrations are too high.

The Belfast Water District, from which the NVC purchases its water for resale, injects sodium hydroxide into the drinking water to control corrosion and to retard copper and lead from leaching out of household plumbing and into the water.

New Fire Hydrant

The new dry barrel fire hydrant was installed on Tuesday, September 12, 2017. Because the bury depth was deeper than anticipated, EJ Prescott will be back on Monday, September 18, 2017 to add an extension to the barrel stock to bring the hydrant and breakaway flange further above the ground. The installation was a joint effort of the NVC, Dean Brown Construction, EJ Prescott, Inc. and American Concrete, Inc.

The new hydrant will be connected to the public water supply and located at the corner of Park Row and Broadway. The flow rate is expected to be in the 750 – 800 gpm range with a residual pressure of 20-23 psi.

The Department will make a request to conduct an independent flow test of the hydrant at a later date to determine the exact flow rate and residual pressure.

Water Leak

Bill Paige, DO responded to and repaired a small water leak at a 673 Shore Road summer service connection.

New Water Customer

The NVC Water Department welcomed its 327th water customer to its water distribution network in August. The new service is located at 20 Summit Avenue in the Birchcrest development off of Route 1 in Northport.