

**NVC UTILITIES MEETING**  
**MINUTES**  
**October 10, 2014**

**Present:** Chairman David Crofoot; Committee members: Marge Brockway, Jo Huntoon, Judy Metcalf, Denis Wang; Office Manager Paul Bartels; Superintendent Richard McElhaney; Distribution Operator Bill E. Paige; Treasurer Steve Kazilionis; Consultant Dick Brockway.

Chairman Crofoot called the meeting to order at 2:30 PM.

**Minutes**

Judy Metcalf moved to accept minutes of the September meeting, seconded by Jo Huntoon – **Voted and approved.**

**Discussions:**

Dick McElhaney discussed the violation of the water treatment plant that exceeded our license limits for BOD mg/l. He said this is a ~~minor~~ problem which will be monitored closely in the future.

Solution for the runoff problem on Maple Street was talked about. It was pointed out that the new runoff pipe would run on top of the sewer main. The sewer line is old and might need replacing in the near future and since that would require breaking through any new runoff pipe, the feeling was that the sewer and runoff pipes should be done in conjunction with one another. This fact will be presented to the Overseers by the trustees.

Discussion of a sign needed to notify boaters coming in to the boat float area that there is limited water depth at mean low tide. Bill Paige will get together with Gordon Fuller and create a sign and decide where to post it.

Steve Kazilionis reviewed the new format of the financial reports and pointed out that there weren't any large variances in the P&L.

Dick McElhaney presented the water and sewer budgets for next year. Judy Metcalf pointed out minor typos. Denis Wang moved to approve the budgets as modified by Judy Metcalf and present them to the Overseers for their approval, seconded by Jo Huntoon – **Voted and approved.**

Dr. Crofoot talked about the Kelly Cove culvert/bridge repairs going on at this time. The water main is not as deep as they thought it was. Bill Paige brought this to their attention. The new footings from the decision to widen the culvert/bridge will place them directly on top of the water line instead as originally planned. Dr. Crofoot moved to have an Overseer communicate with the Selectmen to point out the chance of the water line may need repairs in the future and that the Town should share half of the expense if that should happen, seconded by Denis Wang – **Voted and approved.**

Steve Kazilionis reviewed his understanding of capital improvements that were brought to his attention. The project list was reviewed and modified. He will send an email with a corrected and updated list of capital projects.

**SUPERINTENDENT’S REPORT  
NORTHPORT VILLAGE CORPORATION - UTILITIES DEPARTMENT**

October 10, 2014

**Sewer Department**

August 2014 Effluent Monitoring Data

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

August flow averaged 15,300 gpd compared to 10,000 gpd in 2013. Daily flow ranged from a low of 2,400 gpd to a high of 36,000 gpd during the month. Precipitation for the month measured 3.22” versus 3.16” in 2013.

TSS and BOD<sup>5</sup> averaged 4.3 lbs/day (29.1 mg/l) and 30.2 lbs/day (194 mg/l), respectively compared to 4 lbs/day (49 mg/l) and 11.2 lbs/day (140 mg/l) in August of 2013.

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, BOD<sup>5</sup> and fecal coliform (May thru Sept), daily for pH and settleable solids, and twice per day for total residual chlorine (May thru Sept).

Performance Table

Parameters	August	July	YTD Lo	YTD Hi	YTD Ave	2013 Ave	DEP Monthly Limit	Exceedances
Flow GPD	<b>15,284</b>	23,419	5,054	26,667	<b>16,692</b>	9602	<b>&lt;63000</b>	0
Precip Inches	<b>3.22</b>	8.07	3.16	8.07	<b>4.51</b>	3.26	<b>n/a</b>	0
TSS lbs/day	<b>4.3</b>	6.0	1.0	6.0	<b>2.8</b>	1.9	<b>&lt;76</b>	0
TSS mg/l	<b>29</b>	38	9.4	57.2	<b>26.0</b>	25.7	<b>&lt;145</b>	0
BOD <sup>5</sup> lbs/day	<b>30.2</b>	23.0	1.5	30.2	<b>9.5</b>	7.0	<b>&lt;107</b>	0
BOD <sup>5</sup> mg/l	<b>194</b>	141	29.8	194	<b>80.7</b>	80.2	<b>&lt;203</b>	0
TSS% Removal	<b>90.0</b>	87	80.3	96.8	<b>91.0</b>	91.1	<b>&gt;50</b>	0
BOD% Removal	<b>33.1</b>	51.4	33.1	89.7	<b>72.2</b>	70.8	<b>&gt;30</b>	0
pH lo	<b>7.0</b>	6.9	6.9	7.0	<b>6.95</b>	6.8	<b>&gt;6.0</b>	0
pH Hi	<b>7.2</b>	7.2	7.2	7.4	<b>7.26</b>	7.0	<b>&lt;9.0</b>	0
S.S. ml/l	<b>0.1</b>	0.1	<0.1	0.1	<b>&lt;0.1</b>	<0.1	<b>Report</b>	0
TRC mg/l	<b>0.01</b>	0.01	<.01	0.02	<b>0.01</b>	.02	<b>&lt;.052</b>	0
F Col/100 ml	<b>&lt;1</b>	<1	<1	<1	<b>&lt;1</b>	<1.4	<b>&lt;15-ave</b>	0
F Col/100 ml	<b>&lt;1</b>	<1	<1	<1	<b>&lt;1</b>	<1.6	<b>&lt;50-max</b>	0

**Note:** The last exceedance for flow was **101 months ago (2/2006)**. No exceedance for pH, TRC, TSS and BOD<sup>5</sup> has occurred for **107 months (8/2005)**. The last exceedance for fecal coliform was **23 months ago (8/2012)**.

## September 2014 Snapshot

The NVC WTP exceeded the license limits for BOD mg/l and percent removal in September. The exceedance occurred primarily due to the combination of low flows, dry weather and the lack of dilution, and stronger than usual incoming wastewater. The last exceedance for BOD was in August of 2005.

Flow during the month averaged 5,590 gpd. The report for precipitation as measured by the BWD at the Little River Station was 1.5 inches.

## Fall Septic Tank Cleanings

Moore's Septic has been scheduled to clean the first and second train of the septic tanks used during the summer season on October 10 (today). The tanks are cleaned twice per year in the spring and in the fall.

## Seasonal Chlorination

The effluent chlorination/de-chlorination chemical metering system was shut down for the season. The system to disinfect the treated wastewater before it is discharged into the bay to protect public health ran without a glitch under the masterful control the Village's operator, Fernie Barton.

## Pump Stations and Back-up Generator Annual Inspections

The annual inspections of the pump stations and the generator will be scheduled this October.

## New Coastal Wastewater Fund Surcharge

Sewer Users will have to absorb yet another surcharge to community's annual discharge license fee. Authorized by the Legislature in 2009, the primary purpose of the law is to collect funds to support the State Department of Marine Resource's shellfish water quality monitoring program. The surcharge applies to all publicly owned treatment plants who cause or discharge into closed shellfish harvesting areas. The fee is based on, in the case of the NVC, the 223 acres closed to shellfish growing because of the outfall. While the surcharge is small at \$59 annually, the fees all add up.

## **Drinking Water**

### August 2014 Usage and Water Quality

Water consumption during August averaged 38,378 gpd compared to 38,203 in 2013.

The average weekly chlorine residual in the drinking water was .13 ppm/Cl<sup>2</sup> compared to the recommended goal of >.20 to <1.0 ppm/Cl<sup>2</sup>. The monthly coliform test result was negative. The NVC serves its customers with pre-chlorinated drinking water purchased from the Belfast Water District.

### New Water and Sewer Customer

A new water and sewer customer was placed on line on Maple Street in the center core of Village this last month. Also upon the recent sale of a property on the South Shore Road, Office Manager, Paul Bartels discovered an undocumented sewer account and then accordingly successfully recovered the value of nearly 9 years in uncollected sewer fees. The billing omission occurred when the manual billing system was converted over to the computer billing system back in 2004-2005. Together this increases the number of water customers to 321 and sewer users to 240.

### Purchased Water Meter

The compound 4-inch water meter at the Belfast vault that totalizes the amount of water purchased daily from Belfast was de-installed for hand delivery to the Bangor Water District for a same day calibration and re-installation. The calibration of the water meter is an every two year requirement of the Inter-local Agreement between the NVC and Belfast Water District.

### Proposed Utility Budgets for 2015

The proposed water and sewer budgets for the 2015 fiscal year were sent to Board members under separate cover. A new line item for truck expenses was added to both the water and sewer departments to cover the expenses of the new utility truck. At the same time, the line item account allowance for the operator's use of his personal vehicle was retired.

Small increases in operating costs in both utilities were absorbed under the current user rates. User rates have been stable since 2005 when customers absorbed their last rate hike and will continue to remain stable into the foreseeable future barring any unforeseen and major catastrophes.

Submitted by Paul Bartels

Next meeting was scheduled for November 14, 2014 at 2:30 PM.

David moved, Marge seconded to adjourn – **Voted and approved.**