

# NVC UTILITIES MEETING

## MINUTES

March 20, 2015

**Present:** Chairman David Crofoot; Committee members: Jo Huntoon, Judy Metcalf via phone, Denis Wang; Office Manager Paul Bartels; Superintendent Richard McElhaney; Distribution Operator Bill E. Paige arrived late and announced that he with the help of Carla had found the water leak and shoveled four feet of snow and ice above the valve box to get to the street valve to stop the flow of water.

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

### **Discussions:**

Judy Metcalf brought up the fact that the committee (myself included) has to be more vigilant as to when and where we post the notices for the Utility meetings and that the treasurer should be notified when the other committee members are notified. They should be posted at least a week in advance.

The next meeting will be held on April 10, 2015.

### **Minutes**

Denis Wang moved to accept minutes of the October meeting, seconded by Jo Huntoon – **Voted and approved.**

### **Financials:**

The financial reports were distributed by Steve Kazilionis electronically before the meeting and were discussed. There was an overage in the Utility wages for Bill Paige in 2014. What is more, with the hours as Village agent and snow plowing now added on to his Utility hours each week, it may be more common for him to occasionally receive additional overtime pay in 2015. Dick McElhaney offered a formula for allocating overtime that is fairer ~~and~~ ~~relative~~ to the entities involved compared to the calculations used in 2014.

Note: The original statement that the overage in wages for Bill was mostly due to overtime is not correct as originally believed.

Dick questioned the overage in the water budget for office supplies. Will have Kathy check to see if something was misapplied.

Sewer water testing will be ~~is~~ over budget this year. Dick said it's because the budget was created under the assumption that DEP would have by now approved the NVC's methods to test weekly for BOD.

Four facilities owned by the Village; Library, Wharf, Fire House and the Lab need to have their billing revised to charge a base amount as well as usage. David Crofoot

moved to have the billing changed to charge a base rate plus usage for the Library, Lab, Wharf and Fire House, seconded by Jo Huntoon – **Voted and approved.**

## **SUPERINTENDENT’S REPORT**

March 20, 2015

### **Sewer Department**

#### **January 2014 Effluent Monitoring Data**

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

January flow averaged 4,952 gpd compared to 26,135 gpd in 2014. Daily flow ranged from a low of 2,000 gpd to a high of 14,700 gpd during the month. Precipitation for the month measured 4.17” versus 5.67” in 2014.

TSS and BOD<sup>5</sup> averaged 0.6lbs/day (16.2 mg/l) and 2.5lbs/day (95.3 mg/l), respectively compared to 1.7lbs/day (13 mg/l) and 1.5lbs/day (31.9 mg/l) in January of 2014.

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	January	December	YTD Lo	YTD Hi	YTD Ave	2014 Ave	DEP Monthly Limit	Exceedances
Flow GPD	<b>4952</b>	27823				16113	<b>&lt;63000</b>	0
Precip Inches	<b>4.17</b>	6.09				4.7	<b>n/a</b>	0
TSS lbs/day	<b>0.6</b>	2.5				2.43	<b>&lt;76</b>	0
TSS mg/l	<b>16.2</b>	7.8				22.7	<b>&lt;145</b>	0
BOD <sup>5</sup> lbs/day	<b>2.5</b>	6.0				8.8	<b>&lt;107</b>	0
BOD <sup>5</sup> mg/l	<b>95.3</b>	41.8				95.6	<b>&lt;203</b>	0
TSS% Removal	<b>94.4</b>	97.3				92.2	<b>&gt;50</b>	0
BOD% Removal	<b>67.1</b>	93.6				67.6	<b>&gt;30</b>	0
pH lo	<b>7.0</b>	7.0				6.95	<b>&gt;6.0</b>	0
pH Hi	<b>7.2</b>	7.2				7.23	<b>&lt;9.0</b>	0
S.S. ml/l	<b>&lt;0.1</b>	<0.1				<0.1	<b>Report</b>	0
TRC mg/l	<b>n/a</b>	n/a				0.01	<b>&lt;.052</b>	0
F Col/100 ml	<b>n/a</b>	n/a				<1	<b>&lt;15-ave</b>	0

F Col/100 ml	n/a	n/a				<1	<50-max	0
--------------	-----	-----	--	--	--	----	---------	---

**Note:** The last exceedance for flow was *106 months ago (2/2006)*. The last exceedance for fecal coliform was *27 months ago (8/2012)*. The last exceedance for BOD was *4 months ago (9/2014)*.

### February 2015 Snapshot

The NVC WTP was in full compliance with its license limits in February pending the DEP’s review of the NVC’s discharge monitoring report. Flow during the month averaged 2,618 gpd. The report for precipitation as measured by the BWD at the Little River Station was 2.37 inches.

### Drinking Water

#### January 2014 Usage and Water Quality

Water consumption during January averaged 9,877 gpd compared to 13,289 in 2014.

The average weekly chlorine residual in the drinking water was .18 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.

#### Water Leaks

Bill Paige discovered and responded to a water leak running across the road at 39 Broadway on February 18. Very little water was lost as he found it and closed the valve within an hour after the leak began. On Tuesday morning, March 10, a low water pressure complaint was received from a customer on Bayview Avenue. Bill found it to be a result of a frozen/busted pipe between the main house and the garage. The valve to the garage was shut off to enable the customer to stop the leak.

Wednesday morning, March 11 while reviewing the flow chart, it became apparent that a 20 gpm (29,000 gpd) leak developed somewhere in the system on the night before at 10:30 pm. Ron Boivin from Maine Rural Water Association has been coming in to assist Bill in locating the leak using acoustic listening devices, but to date (3/18/15) the leak has not been found and is continuing. The deep snow pack complicates the department’s efforts in finding the break.

More leaks from frozen and broken pipes are expected with the warmer days ahead and as the frost begins to come out of the ground. MRWA stated that in many areas the depth of the frost in the ground has been reported to be as deep as 5 ½ feet because of the extreme cold this winter this year.

#### 2014 Purchased Water Summary

The NVC Water Department purchased a total of 6.772 million gallons of water in 2014. 5.445 million gallons or 80.4% of the water purchased was billed to customers and

accounted for. The balance of 1.327 million gallons or 19.6% was unaccounted for (leaks).

David moved, Denis seconded to adjourn – **Voted and approved**

Submitted by Paul Bartels