

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

**Present:** Chairman David Crofoot; Committee members: Marge Brockway by phone; Denis Wang; Judy Metcalf by phone; Office Manager Paul Bartels; Superintendent Richard McElhaney.

**Absent:** Distribution Operator Bill E. Paige

Chairman Crofoot called the meeting to order at 9:00 AM.

**Financials**

Bill Cressey presented the closing Profit and Loss report. for 2013.

He explained the apparent overspending of interest on the sewer bonds. This will be resolved by reviewing with the auditors.

While the line item for Distribution Operator is over budget, that is to be expected given the fact that we are relying on our DO more than the budget estimate anticipated. As Bill reminded the Trustees, the budget is built on assumptions on the role of a DO which role is still being explored and defined.

Water service fees are not showing up in the report yet, will show another \$4,500 when billed. The water vehicle allowance should be on the W2.

Legal fees for refinancing bonds are currently posted under professional services but may be reassigned to the debt services line as they are paid out of the proceeds of the refinancing customarily.

Bill recommends using a sweep account at BSB instead of CDARs. The interest is a little less but it gives us access without waiting for a CD to mature. He will recommend it to the Overseers.

**Minutes**

Denis Wang moved to accept the revised minutes of the November meeting, seconded by David Crofoot – **Voted and approved.**

**SUPERINTENDENT'S REPORT**

January 10, 2014

**Wastewater Treatment Plant**

**November 2013 Effluent Monitoring Data**

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

November flows averaged 11,180 gpd compared to 5,203 gpd in 2012 and 11,760 gpd in 2011. Daily flow ranged from a low of 1,800 gpd to a high of 183,000 gpd when 3.68

inches of rain fell. (This one day high flow of 183,000 represented 54% of the total flow for the month of 335,400 gallons.) Rainfall during the month measured 5.73” versus 1.32” in 2012 and 2.76” in 2011.

TSS and BOD<sup>5</sup> averaged 0.5 lbs/day (24.0 mg/l) and 1.9 lbs/day (89.3 mg/l), respectively compared to 1.5 lbs/day (39.6 mg/l) and 3.9 lbs/day (105 mg/l) in November of 2012.

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	November	October	YTD Lo	YTD Hi	YTD Ave	2012 Ave	DEP Monthly Limit	Exceedances
Flow GPD	<b>11180</b>	<b>2132</b>	2132	15300	<b>9695</b>	11004	<b>&lt;63000</b>	0
Precip Inches	<b>5.73</b>	<b>1.16</b>	.86	6.19	<b>3.34</b>	3.87	<b>n/a</b>	0
TSS lbs/day	<b>0.5</b>	<b>0.5</b>	.4	6.0	<b>1.9</b>	2.7	<b>&lt;76</b>	0
TSS mg/l	<b>24.0</b>	<b>27.5</b>	9.7	49.0	<b>27.0</b>	26.4	<b>&lt;145</b>	0
BOD <sup>5</sup> lbs/day	<b>1.9</b>	<b>1.7</b>	1.2	27.2	<b>7.1</b>	7.8	<b>&lt;107</b>	0
BOD <sup>5</sup> mg/l	<b>89.3</b>	<b>102.6</b>	20	166	<b>87.5</b>	77.6	<b>&lt;203</b>	0
TSS% Removal	<b>91.7</b>	<b>90.5</b>	83	96.7	<b>90.7</b>	90.6	<b>&gt;50</b>	0
BOD% Removal	<b>69.2</b>	<b>64.6</b>	42.6	93.1	<b>69.4</b>	74.0	<b>&gt;30</b>	0
pH lo	<b>6.8</b>	<b>6.8</b>	6.7	6.8	<b>6.8</b>	6.7	<b>&gt;6.0</b>	0
pH Hi	<b>7.0</b>	<b>7.0</b>	6.9	7.0	<b>7.0</b>	6.9	<b>&lt;9.0</b>	0
S.S. ml/l	<b>&lt;0.1</b>	<b>&lt;0.1</b>	<0.1	0.1	<b>&lt;0.1</b>	<0.1	<b>Report</b>	0
TRC mg/l	<b>na</b>	<b>na</b>	.02	.02	<b>.02</b>	.02	<b>&lt;.052</b>	0
F Col/100 ml	<b>na</b>	<b>na</b>	<1	<4.6	<b>&lt;1.4</b>	<4.4	<b>&lt;15-ave</b>	0
F Col/100 ml	<b>na</b>	<b>na</b>	<1	<10	<b>&lt;1.6</b>	<11.4	<b>&lt;50-max</b>	0

**Note:** The last exceedance for flow was **92 months ago (2/2006)**. No exceedance for pH, TRC, TSS and BOD<sup>5</sup> has occurred for **98 months (8/2005)**. The last exceedance for fecal coliform was **15 months ago (8/2012)**.

### December 2013 Snapshot

The NVC Wastewater Treatment Plant was again in full compliance with its discharge license in December. Flow during the month will average around 9000 gpd. The report for precipitation as measured by the BWD at the Little River Station was 2.43 inches.

### Sewer Improvement Projects (SIP)

WARRANTY ITEMS – Waiting for Sargent to repair the damaged water service line from the Yacht Club to the Wharf – Sargent has indicated they plan to complete the repairs in the spring if they find the failure was associated with their prior work.

\$2000 was due Sargent as retainage; however Sargent in October agreed to accept \$1200 - an amount equal to the balance remaining in the \$600,000 funding package. Dirigo

Engineering believes and wants the NVC to pay Sargent the \$1200 now since Sargent agreed to the lesser amount and the required warranty work is in writing and Sargent has indicated they will complete.

#### Shore Road Main Pump Station High Water Alarm

At the Department's request this month, Stevens Electric and Pump relocated the high water alarm's flashing red light from the side of the building to on top of the roof where it can be better seen by utility staff and the public during an emergency.

#### Shore Road Dedicated Simplex Pump Stations

Extreme and sustained cold weather this winter has been plaguing 2 of the 3 small pump stations this month. Fernie and/or Bill have been called in on several occasions to reset the pumps after their respective high water alarms went off. Steven's Electric and Pump was called-in to troubleshoot the problem when they were down to relocate the high water alarm for the Main Pump Station on Shore Road, but could not find anything wrong with the pumps. Amperage draws under load were normal.

The Department believes now that the problem may be more related to the top side of the pump station inside the control box. The control boxes are not insulated and stand up alone unprotected from the weather on top of the concrete wet wells. Accordingly the Department has asked Stevens to investigate/install strip heaters inside the control boxes since it now believes that the three phase contactors may not be contacting properly when the temperature starts to dip too much below zero degrees.

In interim, Billy has been going down to the pump stations on a regular basis to manually pump things down to stay ahead of the problem until the extreme cold lets up and/or the strip heaters are installed.

**The annual sewer water test has shown a high level of mercury. Dick thinks that it's an aberration, will retest immediately and will report on the new test next month.**

### Water

#### November 2013 Usage and Water Quality

Water consumption during November averaged 11,153 gpd compared to 14,200 in 2012 and 13,762 in 2011.

The average weekly chlorine residual in the drinking water was .08 ppm/Cl<sup>2</sup> compared to the recommended level 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 water it purchases from the Belfast Water District.

#### Visitor's Concerns

None voiced.

### Adjourn

Next meeting scheduled tentatively for February 14<sup>th</sup> 2014 at 9:00 AM

Judy Metcalf moved to adjourn at 10:05 AM, seconded by Denis Wang, **Voted - majority approved.**

Submitted by Paul Bartels