

NVC UTILITIES MEETING

MINUTES

April 10, 2015

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

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

Minutes

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

Financials:

Steve Kazilionis reviewed the financials and pointed out some over spending which was discussed and will be rectified.

Sewer water testing will be over because we are still having water tested in an independent lab. Dick thought that the DEP would have approved our testing in house by now. Glassware cleaning using “Nochromix” sulfuric acid was discussed.

Repairs overage was due in part to fixes made to help eliminate freeze ups at the 3 dedicated pump stations by installing heat strips inside the control panels and the replacement of the remaining mercury switches at the Shore Road main pump station.

Steve had a discussion about audits, budgets and financial reports and how we can track things more easily.

Discussions:

The water leak found by Bill Paige brought on a discussion about billing for water leaks. Dick McElhaney does not want to charge for unmetered water in leaks on the ~~street~~ supply side of the water meter since it is customary for water districts to eat these kinds of losses and then report those losses in their annual PUC audits. Note: Conflicting understandings after the meeting among some of the attendees as to the decision on this discussion may require that the decision be restated at the next Trustees’ meeting.

The repaired 2-inch yard hydrant in Ruggles Park has been activated. This will be used for fire protection and cleaning the sewer tanks. Dick recommended that the rental fee be \$598 annually or 1/3rd the cost of the Drinkwater School 6-inch fire hydrant which the Village currently pays \$1794. Denis Wang recommended the rental fee be based on the area of the respective hydrant pipes instead of the pipe diameter or \$190. David Crofoot moved that the trustees recommend to the Overseers that the general account and the sewer department split the cost of \$190 per year, seconded by Denis Wang, - **Voted and approved.**

David questioned Dick on the status of the 2009 wastewater discharge license renewal application, Dick said the Village continues to operate under the conditions of the expired 2009 license, has since updated the EPA 301(h) questionnaire as requested by EPA in 2014, received final draft license approval from the MDEP in 2011-12, but is still waiting for EPA's approval now into 2015 and counting. Only a few 301 (h) waivers from the requirement of secondary treatment remain in the country. Winterport and Bucksport recently had their 301 (h) permits rescinded and are now attempting, or have found the extra millions of dollars needed from their customer base, to finance the construction upgrade or replacement of their existing plants to go from primary to secondary treatment of their wastewaters.

The Dirigo estimate for new water and sewer lines on Maple Street was presented by Bill Paige and discussed.

SUPERINTENDENT'S REPORT

April 10, 2015

Sewer Department

February 2014 Effluent Monitoring Data

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

February flow averaged 2,618 gpd compared to 5,054 gpd in 2014. Daily flow ranged from a low of 2,000 gpd to a high of 3,300 gpd during the month. Precipitation for the month measured 2.37" versus 3.28" in 2014.

TSS and BOD⁵ averaged 0.3lbs/day (16.5 mg/l) and 1.6lbs/day (80.6 mg/l), respectively compared to 0.7lbs/day (23 mg/l) and 1.6lbs/day (52 mg/l) in February 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, BOD⁵ 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 | February | January | YTD Lo | YTD Hi | YTD Ave | 2014 Ave | DEP Monthly Limit | Exceed- ances |
|--------------------------|-----------------|---------|-----------|-----------|--------------|----------|-------------------------|------------------|
| Flow GPD | 2618 | 4952 | 2618 | 4952 | 3785 | 16113 | <63000 | 0 |
| Precip Inches | 2.37 | 4.17 | 2.37 | 4.17 | 3.27 | 4.7 | n/a | 0 |
| TSS lbs/day | 0.3 | 0.6 | 0.3 | 0.6 | .45 | 2.43 | <76 | 0 |
| TSS mg/l | 16.5 | 16.2 | 16.2 | 16.5 | 16.35 | 22.7 | <145 | 0 |
| BOD ⁵ lbs/day | 1.6 | 2.5 | 1.6 | 2.5 | 2.05 | 8.8 | <107 | 0 |
| BOD ⁵ mg/l | 80.6 | 95.3 | 80.6 | 95.3 | 87.9 | 95.6 | <203 | 0 |
| TSS% Removal | 94.3 | 94.4 | 94.3 | 94.4 | 94.35 | 92.2 | >50 | 0 |
| BOD% Removal | 72.2 | 67.1 | 67.1 | 72.2 | 69.65 | 67.6 | >30 | 0 |
| pH lo | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.95 | >6.0 | 0 |
| pH Hi | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.23 | <9.0 | 0 |

| | | | | | | | | |
|--------------|------|------|------|------|------|------|---------|---|
| S.S. ml/l | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | Report | 0 |
| TRC mg/l | n/a | n/a | n/a | n/a | n/a | 0.01 | <.052 | 0 |
| F Col/100 ml | n/a | n/a | n/a | n/a | n/a | <1 | <15-ave | 0 |
| F Col/100 ml | n/a | n/a | n/a | n/a | n/a | <1 | <50-max | 0 |

Note: The last exceedance for flow was **107 months ago (2/2006)**. The last exceedance for fecal coliform was **28 months ago (8/2012)**. The last exceedance for BOD was **5 months ago (9/2014)**.

March 2015 Snapshot

The NVC WTP was in full compliance with its license limits in March pending the DEP's review of the NVC's discharge monitoring report. Flow during the month averaged 5,823 gpd. The report for precipitation as measured by the BWD at the Little River Station was 1.12 inches.

Drinking Water

February 2014 Usage and Water Quality

Water consumption during February averaged 10,382 gpd compared to 14,103 in 2014. 3,300 gpd of the difference from year to year was due to the 94,000 gallon water main break on Crest Street in the Birchcrest housing development.

The average weekly chlorine residual in the drinking water was .21 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl².

The monthly coliform test result was negative. The NVC serves its customers with pre-chlorinated drinking water purchased from the Belfast Water District.

Yard Hydrant Rental

After being out of service for more than a decade, the Ruggles Park fire hydrant was put back into working order last year. The Water Department is now catching up on this repair and proposes to charge an annual rental rate of \$598 for the service. The hydrant provides for fire protection in the center core area of the Village as well as a clean source of water for use at the wastewater treatment plant. (1-way or 2-way customer split?)

Note: The \$598 rate for the 2-inch hydrant is one-third of the \$1794 rate that is charged for the rental of the 6-inch fire hydrant that is located in front of the Drinkwater School. ***[The preceding paragraph reflects the Superintendent's Report; the action of the committee on this matter are reflected above the report]***

Consumer Confidence Report

The annual CCR and drinking water quality report will be sent out of with the May tri-mesterly billing.

Next Meeting date set for May 8, 2015, 2:30 PM

David moved, Denis seconded to adjourn – **Voted and approved**
Submitted by Paul Bartels