

**NVC UTILITIES MEETING
MINUTES
August 16, 2013**

Present: Chairman David Crofoot; Committee members: Dick Brockway, Ned Lightner; D.O. Bill E. Paige; Treasurer Bill Cressey; Office Manager Paul Bartels.

Absent: Superintendent Dick McElhaney; Committee members Denis Wang and Judy Metcalf.

Chairman David Crofoot called the meeting to order at 10:00 AM.

Minutes

Ned Lightner, moved to approve the minutes from the July 12th utilities meetings, seconded by David Crofoot – **Voted and approved.**

Financials

Bill Cressey provided Financial Reports for the Committee members. No issues were discussed.

Residents' Concerns:

Overseer Steve Kazilionis asked if we could provide a water fountain in Ruggles Park. However doing so would be cost prohibitive. He instead recommended it be installed in the Wharf. David Crofoot said he had no problem with bringing drinking water to the dock provided NVC pays for the materials and have an automatic shutoff to deter vandalism.

**SUPERINTENDENT'S REPORT
NORTHPORT VILLAGE CORPORATION - UTILITIES DEPARTMENT
August 9, 2013**

Sewer Department

June 2013 Effluent Monitoring Data

The NVC was in full compliance with its wastewater discharge license in June. There were no license exceedances.

June flows averaged 15,300 gpd compared to 25,110 gpd in 2012 and 8,357gpd in 2011. Daily flow ranged from a low of 5,200 gpd to a high of 66,500 gpd. Rainfall during the month measured 6.19" versus 8.31" in 2012 and 3.82" in 2011.

TSS and BOD⁵ averaged 3.0 lbs/day (28.0 mg/l) and 7.1 lbs/day (82 mg/l), respectively compared to 10.3 lbs/day (25 mg/l) and 29.1 lbs/day (66 mg/l) in June of 2012.c

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 | June | May | YTD Lo | YTD Hi | YTD Ave | 2012 Ave | DEP Monthly Limit | Exceed-ances |
|--------------------------|----------------|-------|--------|--------|----------------|----------|-------------------|--------------|
| Flow GPD | 15300 | 15155 | 4047 | 15300 | 10579 | 11004 | <63000 | 0 |
| Precip Inches | 6.19 | 5.08 | .86 | 6.19 | 3.1 | 3.87 | n/a | 0 |
| TSS lbs/day | 3.0 | 2.1 | .4 | 3.0 | 1.5 | 2.7 | <76 | 0 |
| TSS mg/l | 28 | 28 | 9.7 | 28 | 19.2 | 26.4 | <145 | 0 |
| BOD ⁵ lbs/day | 7.1 | 16.2 | 1.2 | 16.2 | 5.4 | 7.8 | <107 | 0 |
| BOD ⁵ mg/l | 66 | 151 | 20 | 151 | 60.8 | 77.6 | <203 | 0 |
| TSS% Removal | 90.3 | 90.3 | 90.3 | 96.7 | 93.4 | 90.6 | >50 | 0 |
| BOD% Removal | 72 | 48 | 48 | 93.1 | 78.2 | 74.0 | >30 | 0 |
| pH lo | 6.8 | 6.8 | 6.7 | 6.8 | 6.8 | 6.7 | >6.0 | 0 |
| pH Hi | 7.0 | 7.0 | 6.9 | 7.0 | 7.0 | 6.9 | <9.0 | 0 |
| S.S. ml/l | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | Report | 0 |
| TRC mg/l | .02 | .02 | .02 | .02 | .02 | .02 | <.052 | 0 |
| F Col/100 ml | <1 | <4.6 | n/a | n/a | <1.7 | <4.4 | <15-ave | 0 |
| F Col/100 ml | <1 | <10 | n/a | n/a | <2.2 | <11.4 | <50-max | 0 |

Note: The last exceedance for flow was **87 months ago (2/2006)**. No exceedance for pH, TRC, TSS and BOD⁵ has occurred for **93 months (8/2005)**. The last exceedance for fecal coliform was **10 months ago (8/2012)**.

July 2013 Snapshot

The NVC Sewer Department was in full compliance with its discharge license in July. Flow during the month averaged 14,506 gpd. Precipitation as measured by the BWD at the Little River Station was about 2.9 inches.

Sewer Improvement Projects (SIP)

TREATMENT PLANT IMPROVEMENTS – Waiting for Sargent (Harlan Pease) to complete the installation of the high tide transducer - tentatively scheduled for August 16.

WARRANTY ITEMS – Waiting for Sargent to resolve damaged water service line from the Yacht Club to the Wharf – requested to be done after Labor Day.

RD GRANT – The undisbursed balance on the grant to completion is \$2,379.14

In-house Testing for Total Suspended Solids (TSS)

Q.C. Services of Harrison, Maine will be in the Village today to certify the testing equipment used to conduct the weekly compliance testing of the effluent for Total Suspended Solids. Testing equipment must be certified by a QA/QC vendor annually.

Flow Meter Failure

A July 17-18 lightning strike in Ruggles Park burned out the input card to the Flow recorder and accordingly stopped the functioning of the flow meter. Manual flow measurements (“million dollar dipstick confirmations”) were taken by Billy until the following Monday when the recorder was repaired and placed back into service. The input card earmarked for the yet-to-be installed ocean transducer was used to make the repair. Two new input cards have since been purchased so that a spare card will still be on hand once the input card for the Ocean transducer is installed, hopefully, next Friday.

Annual DEP Inspection

Denise Behr, MDEP was in the Village to conduct her annual review of the wastewater collection and treatment system last Friday, August 2.

Of a somewhat surprise, Ms. Behr continues to express concern for the remaining I&I (inflow) in the system, despite the extensive work the Village has performed over the last couple of decades to consistently reduce annual daily flows to nearly one-sixth of the permitted level or – as she was informed – annual daily I&I amounts of less than 100 gallons/day/inch-mile of pipe compared to the less than 500 gpd/inch-mile measurement that is generally accepted by engineers as a water tight collections system. Ms. Behr was not familiar with this unit of measure. Discussions of the impact that high tide events are having on the occasional over reporting of flows were counter-offered to her for the higher than usual daily flows she had specifically focused her attention on following rain events.

Ms. Behr had doubts and/or difficulty understanding this concept, but seemed to agree that the installation of the ocean transducer might provide good information going forward once it is installed.

She also reminded the Department for the need to update the O&M manual to reflect the recent improvements to the treatment plant - more specifically the new deep ocean outfall pipe dimensions and the installation of the isolation valves which now enable staff the ability to direct flow or shut off flow to the individual treatment trains without climbing down into the manhole. This is a reasonable request.

Along with Billy and me, she also inspected the improvements to the lab and utility garage as well as the lab equipment and testing procedures employed by the Department to perform the in-house testing of the effluent for Total Suspended Solids. She did

challenge us on the validity of the test results for compliance purposes since the analytical balance used to weigh the solids had yet to be certified by a qualified QA/QC vendor even though she was informed that certifiable weights had been used on it to insure the accuracy of the instrument before it was put into service. (As reported above, Q.C. Services is scheduled to be in today to certify the TSS testing equipment to validate with certainty future testing results). Ms. Behr indicated that she would like to come back in September to observe Billy's testing techniques at a time convenient with him.

Also in the mix of discussions, was the issue over – as it was previously believed - the possible sample handling error by the testing lab for the unusually high 420 mg/l BOD report for the 5/21/13 effluent sample. Ms. Behr opined that the high BOD number could be real and might be representative of a collective flushing of anti-freeze into the sewer system from the cottages in the Village that is used to protect their plumbing from freezing during the winter. While the strength of this BOD number is more likely that of untreated wastewater than that of a primary effluent, the Department submitted that it would take a closer look again at this possibility next May, and ensuing Mays, to see if this phenomena would repeat itself. A quick review of past May records indicated no such connection.

Talk ended on the status of the five year license renewal application of the 2004 wastewater discharge license submitted by the NVC Sewer Department to the DEP and EPA in 2009. Ms. Behr agreed that the likelihood the NVC would need to re-file another renewal application in 2014, if the 2009 renewal request has still not been acted upon by the EPA by then, was probable. It is EPA, and not DEP, Ms. Behr said, who is currently holding up the licensing renewal approval process.

Given that this is considered a minor discharge permit, it, perhaps, is not so unusual for this kind of an EPA delay to occur. The NVC therefore continues to operate under the provisions and conditions of its 2004 MDEP wastewater discharge license and EPA 301(h) permit.

A formal report on her findings and recommendations will be forthcoming.

A sewer application for a sewer modification (install foundation) was voted and approved by the Board for Scott Sebold and Kimberly Clark at 89 Clinton with the provision that the old clay lateral will be replaced with new PVC pipe.

Water Department

June 2013 Usage and Water Quality

Water consumption during June averaged 29,253 gpd compared to 25,748 in 2012 and 26,972 in 2011.

The average weekly chlorine residual in the drinking water was .24 ppm/Cl² compared to the recommended level of >.20 to <1.0 ppm/Cl². The monthly coliform test result was

negative. The NVC purchases pre-chlorinated water from the Belfast Water District to serve its customers.

New Customer

The NVC Water Department welcomes Liz Lee and Steve Komp of 613 Shore Road to its newest list of water customers. With this new water service line, the NVC Water Department now serves 318 customers.

David Crofoot moved, with Ned's permission, to recommend that NVC President Huntoon appoint Ned Lightner to a two year term on the Utilities Committee, seconded by Dick Brockway – Voted and carried.

It was announced that the Maine PUC approved the new Terms and Conditions for the NVC Water Department.

Adjourn

Next meeting scheduled for August 9th at 10:00 AM.

David Crofoot moved to adjourn at 11:20 AM, seconded by Ned Lightner, **Voted - majority approved.**

Submitted by Paul Bartels