



Town of Woodstock

Board of Selectmen

Workshop Minutes

December 5, 2023, at 12 pm

Horizons Engineering - Water System Asset Management Plan

Board Attendees: Gil Rand, Charyl Reardon, Scott Rice

Staff: Mike Welch, Cathy Riley

Horizon Engineering: Jesse Halikas, Cathy Conway

NHDES: Mathew Deterling, Katie Curtis

Pennichuck: Donald Ware

Jessie Halikas, Project Engineer with Horizon Engineering, addressed the Board of Selectmen and others in attendance to give an update on the Water System Asset Management Plan.

Introduction:

Jesse thanked Judy Welch, Scott Rice, and Mike Welch for all their help with the project.

Process Review:

Mr. Halikas informed the attendees that he and Mike made a map of all the repairs made to the system, and they did a full assessment of the Town of Woodstock water assets. They walked parts of the system and pump rooms, checked tanks, and then, using a formula, Mr. Halikas came up with a list of the most likely assets to fail.

Those assets were put in order from highest risk to lowest. They reviewed the most elevated risk assets with Mike to see what he thought was most important out of the list and then devised a ten-year capital improvement plan.

System Mapping: Mr. Halikas stated that Lead and Copper mapping was done in preparation for the new rules that are coming up. The mapping will show before and after 1986. Mike helped to create a map with the recent history of repairs in the Town of Woodstock.

Key Takeaways:

We assigned a 5% value for inflation and 2% tacked on top to help save money for the water capital improvements. After ten years, there should be a surplus of \$700,000.00 - \$900,000.00.

Water Loss: For 2022, the data looked pretty good. It was declining steadily, from 60% down to 30%, but in 2023, it jumped back to 60%, and they are not sure why. Mike will be purchasing some equipment that will be used to find leaks. Some spikes were detected in December, probably due to Ice Castles' water usage.

Average Day Pumpage: It steadily increased until 2022; there was a decline for a short time, but it's back up in 2023.

2.

Capacity: We can add 1,700 3-bedroom homes to the system based on the well capacity. Another 1000 3-bedroom homes can be added to the system based on the water tank.

Capital Improvement Plan:

Adding to the Annual Reserve every year for Hydrants, Water Mains, Valves, and leak Contingency:

\$100,000/year for the Annual Reserve

\$25,000/year for the Leak Contingency and Valves

The main segments to be repaired are cut and cap at the Kanc/Morris Street and outdated mains, i.e., Rte. 3, North Station down South Station Rd. Plans are already in place to begin work on that segment that will create a loop.

Mr. Halikas added that the hydrant on Morris Street is undersized, and Horizons is working on a design.

Action Plan: Mr. Halikas stated the town added flow meters at both well sources in 2023 to help track water loss more accurately. In preparation for the Lead and Copper Rules, Woodstock does not currently have a database for customers, so it will be focused on creating one.

2024 Action Plan:

The line to Lincoln will be cut and capped. The Town cannot blend water with Lincoln due to different sources and treatment methods.

Complete the loop on Morris Street,

Replace four undersized hydrants.

Work on funding to replace the old water main on Daniel Webster Highway, from North Station Road down South Station Road.

Review rates annually to maintain profitability.

Review growth in the service area.

Prepare higher capacity usage recommendations for additional customers.

When asked for questions or comments, Water System Operator Donald Ware added that Lincoln uses chlorine as a disinfectant in their water. This does not blend well and creates an ineffective mixture at chloritization. In a major emergency, you could mix the two supplies. Mr. Ware recommended that there should be a hydrant on either system to connect in case of a significant emergency.

Mike Welch said that Woodstock had tried in the past but did not have enough pump to get water past GH Pizza and would have to put in another pump to go further. Gil believed it was a gravity feed and not a pump at the time.

Mr. Halikas thanked Mike again and informed the attendees that there were copies of the plans, maps, and USB drives provided for the Town.

Mr. Halikas stated that there was an Excel sheet on the USB with every segment on mains between all cross streets so that Mike could input repairs and replacements in the sheet, which can be updated as they progress.

Scott added that we need a database created for every single user.

Don Ware let the attendees know that the State was having an online seminar to review the status of the Copper and Lead Regulation, which will describe what the state will allow for the service materials, such as records.

It was recommended that the seminar be signed up for, that the EPA just sent out the revisions, and that some information could be provided tomorrow.

Katie Curtis with the NHDES had a question on whether there will be a review on an annual basis, to which Scott replied that they have been working on and looking 2-3 years down the road and have already raised rates to keep up with the changes.

Ms. Curtis added that if all the money had not been spent, they would need a letter to disburse the final funds for further funding.


Charyl thanked everyone for the hard work put into the project.

The Select Board Workshop ended at 12:23 pm.


Charyl Reardon, Chairperson

December 12, 2023
Date

Scott Rice


R. Gil Rand

