The District of New Hazelton Water System Annual Report for 2023

Water for the District of New Hazelton is a surface source taken from Station Creek. The water is piped 900m to the water treatment plant. The water is then filtered through Slow Sand and chlorinated before being fed to the reservoir to be used for consumption and fire flow through. In addition, there is an impoundment to store water for use in cases of emergencies or high turbidity events.

The District of New Hazelton has a population of 580. The number of residential connections for New Hazelton is 326 and 70 commercial or industrial connections.

The District of New Hazelton also supplies water to Hagwilget Village. They have a population of 238 with 82 residential connections and 4 commercial connections.

Bacteriological sampling is done twice a month from three (3) separate locations that are representative of our distribution system. Once a week, an audit sample is taken from three (3) designated test locations to test the water for E.coli/coliform using the "Colilert" method. Sampling is up to date and completed as per the requirements of the Operating Permit. Chlorine residuals are monitored daily from the three (3) locations within the distribution system and all records show that the residuals are maintained at a minimum of 0.2ppm (free chlorine) at the ends of the distribution line. We sent in 48 samples for the year. There were zero (0) samples showing the presence of total coliforms or E. coli.

Our water quality data can be viewed at www.healthspace.ca/nha .

The New Hazelton Water Treatment Plant upgrade to its Supervisory Control And Data Acquisition system (SCADA) in December of 2019 continues to provide extremely accurate technical details to the EOCP certified operators and allows precise hypo-chlorination water treatment processes. The back up chlorine injection pump was upgraded in 2022 to the newer series of pumps, which allows more accurate chlorine dosing.

In 2023 the water operators for the District of New Hazelton successfully completed a number of Environmental Operators Certification Program (EOCP) courses, with two operators maintaining certified operator status and are fully compliant with the EOCP and Northern Health Authority regulations. Two operators are currently entered in the Environmental Operators Certification Program (EOCP) courses and will be certified upon completion of their one year practical experience in 2024.

The District of New Hazelton experienced adequate precipitation in the spring and fall in 2023, which assisted residents with their water conservation efforts. The Water Distribution System saw an annual water usage that was to be expected and was similar in usage to the previous year.

In summary the District of New Hazelton had another successful year in meeting our water quality guidelines and goals and maintaining our water distribution system.

For any additional information you can contact our District office at 250-842-6571.

Respectively submitted by Roger Smith, Public Works Superintendent

January 3, 2024