The District of New Hazelton Water System Annual Report for 2020

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 323 and 69 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 2 times a month from 3 locations that are representative of our distribution system. Once a week, an audit sample is taken from 3 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 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. Testing for THM's and HAA's continued through 2020 quarterly.

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

2020 saw the completion 13th Avenue Waterline Upgrade Project. The project began in 2017 as the District of New Hazelton was awarded a Capital Infrastructure Grant Funding from the Federal Government of Canada and the Province of BC. The extension was a tie in from 14th avenue to 13th avenue on Laurier Street. The 4" asbestos cement waterline was replaced with 6" PVC waterline and an old connection point from the Waterfall Trail was abandoned. Paving and landscaping were completed in summer of 2020. This completes the upgrade project that began in 2017, and final reporting was completed in 2019.

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. One of the two chlorine injection pumps was upgraded in 2020, with the other to be upgraded to the newer series of pumps in 2021. The new chlorine pump allows more accurate chlorine dosing.

In 2020 the water operators for the District of New Hazelton successfully completed a number of Environmental Operators Certification Program (EOCP) courses, with three operators

maintaining certified operator status and are fully compliant with the EOCP and Northern Health Authority regulations.

The District of New Hazelton experienced extremely high precipitation most of the spring, summer and fall in 2020, 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 upgrading 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

May 03, 2021