The District of New Hazelton Water System Annual Report for 2018

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.

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

2018 saw the completion of the 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 final block of 13th avenue from Laurier Street to McBride Street was the last section on the scope of work for the project. The 4" asbestos cement waterline was replaced with 6" PVC waterline.

In 2017 the District of New Hazelton was awarded a Capital Infrastructure Grant Funding from the Federal Government of Canada and the Province of British Columbia. Our grant funding application highlighted the need to replace the existing 4" asbestos cement waterline along 13th Avenue with a 6" PVC waterline. We established that this would address 2 issues in our water distribution system. The existing material of the waterline was nearing the end of its life expectancy and increasing the diameter would increase water flows for firefighting applications. Opus International was contracted for engineering services and project management while Canyon Contracting Company was responsible for installation of infrastructure. The waterline installation was achieved with a combination of open cut excavation and underground directional drilling. A total of 6 blocks worth of waterline on 13th Avenue were slated to be replaced under the project. 5 blocks were completed with the last block completed in the summer of 2018 including landscaping and paving. The project could not be completed in 2017 due to weather factors, soil conditions, and expanding the project. With

the final block of the 13th Avenue Waterline Upgrade Project completed and online, the District of New Hazelton is identifying other aging infrastructure to upgrade in the future. 13th Avenue was a key location to upgrade within the municipality.

The summer of 2018 was quite warm and residents remained diligent with their water conservation efforts. The District of New Hazelton Water Conservation Plan was initiated at the end of May and ended in at the beginning of September. The Water Distribution System saw an annual water usage that was to be expected and was similar in usage to the previous year.

Also, testing for THM's and HAA's has continued through 2018 quarterly.

In summary the District of New Hazelton has had a 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.