The District of New Hazelton Water System Annual Report for 2017

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/industrial connections.

The District of New Hazelton also supplies water to the First Nation Village of Hagwilget. The Village has a population of 238, 82 residential connections, and 4 commercial connections.

Bacteriological sampling is done twice a month from three locations that are representative of our distribution system. Once a week, an audit sample is taken from three separate 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 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. A total of 48 samples were submitted for testing during 2017. There were zero (0) samples showing the presence of total coliforms or E. coli.

District of New Hazelton water quality data can be viewed at www.healthspace.ca/nha .

Reservoir and chlorine contact storage tank cleaning took place in March. Valard Dive Services in conjunction with MTR Utility and Raven Rescue were contracted to carry out the work. The duration of the inspection and cleaning services took two days with written reports, photos, and video footage. During the inspection and cleaning process, the contractors established both sites were in good condition. There were small amounts of sediment build up in both sites, which were removed. The vent pipe in the reservoir had missing riser clamp bolts. This issue was also addressed. It was recommended to inspect our reservoir every five years.

This year the District of New Hazelton was awarded 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 two 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 six blocks worth of waterline on 13th Avenue were slated to be replaced under the project. Five blocks have been completed with the last block scheduled for completion in the summer of 2018, including landscaping and paving. The project could not be completed in 2017 due to weather factors, soil conditions, and expansion the project.

Testing for trihalmoethanes and haloacetic acids (THMs and HAAs) has continued through 2017 on a quarterly basis.

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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, please contact our District office at 250-842-6571.

Submitted by,

Christopher Lawrence
Public Works Superintendent