

Union Bay Public Works

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AGM **Public Works Report**

Water Stats:

The Union Bay Water System went through a total of 156,358m³ of water in 2019. Our minimum daily recording was 267m³ on January 10th and our maximum daily recording of 665m³ on August 8th. We are using 19% of our total license from Langley Lake at 809,203m³/year.

Water Sampling and Testing:

The water system is constantly sampled for turbidity and chlorine 24/7 from online analyzers. Ministry of Health samples are taken from raw water and the distribution system 3 days a week. All of the samples from the distribution system were negative in 2019 sent by VIHA to their lab.

New Installations:

It was a busier year for new houses in Union Bay this year with 10 new service connections. These are ¾ and 1" services that are hot tapped into the mainline and trenched to the property line where they are metered.

Repairs:

There were 19 water leak repairs in the District in 2019 and some very large and some able to hand dig. Some very large leaks require excavators, Vac Trucks, dump trucks and flaggers. We had 7 of these leaks in 2019 and the asbestos pipe failure is to blame as well and poor construction methods 50 plus years ago when installed. The smaller leaks are fixed by renting a mini excavator and also hand digging the real small leaks. The leaks come from Asbestos Cement (AC) pipe failure, corporation stops, service line splits, holes in the mainlines, failing copper, poly, and PVC pipes, and gasketed pipe failures.

Langley Lake:

The lake level did really well this last year staying on Level 1 water restriction and only going down 58cm below the spillway on September 13th. The rains came slowly and saturated the forest for a month before the lake started to overflow on October 23rd. Then the heavier rains came and on December 31st we went on a Boil Notice as the turbidity went above 1.0Ntu.

Water Treatment Plant:

The water treatment plant has been running now for over a month and is producing great water. The turbidity is 0.02Ntu and a Ph of 7.5. We are providing Island Health with monthly reports of all the parameters set by the operating permit which we received June 11th. The plant is classified as a Water Treatment Facility III by the governing body EOC. The plant is operated by certified operators and they will continue to maintain and upgrade their certifications by attending classes and seminars. This requires an extensive amount of training every year and also exams to advance from an Operator in Training (OIT) to a level 3 operator. On staff we currently have 1 level 3, 1 level 1 and an OIT.

Respectively Submitted

Danny McGill
UBID Public Works Superintendent