



# Village of Fraser Lake

## 2025 Community Water Systems Report

### Capacity

The Village of Fraser Lake water system currently supplies potable drinking water to approximately 1,000 residents through 525 connections, including homes and businesses.

All water is treated at the Level 3 Water Treatment Plant located at 305 Molywood Drive. The Water Plant currently treats approximately 244,000m<sup>3</sup>/year. The demand on the treatment system is at its lowest in the winter months, with an average of 517m<sup>3</sup>/day, and summer being the highest at an average of 1050m<sup>3</sup>/day.

### Process

The Water Plant treatment process begins with raw lake water being pumped into the Water Treatment Plant through a series of contact chambers and multi-media filtration tanks that consist of granular media filtration and granulated carbon media, which are different layers of sand and gravel that separate suspended solids in the water that pathogens can attach themselves to. The water is then mixed with calcium chloride and finally treated with ultraviolet light, the process successfully destroying pathogens that may have initially entered the water supply.

### Quality Control

The Village of Fraser Lake is required by the Northern Health Authority to obtain a water sample from different locations and remit the collected sample to a certified laboratory for bacteriological testing once per week. For a complete listing of bacteriological results, click [here](#).

To date, all monthly bacteriological analysis samples have been returned as having satisfactory quality rating. The annual chemical analysis is readily available to the Village Office upon request.

The Fraser Lake Public Works Department flushes all Water Distribution lines within the municipality annually as a proactive approach to ensure satisfactory water quality.

The reservoir on Mouse Mountain is inspected bi-annually by certified diving operators for any build up on tank walls and to check the structural integrity of the reservoir. This inspection is recorded and filed within the municipality.

## Capital Investments

In 2024 the reservoir upgrades began with a pad for the new water tower and the installation of a supply and distribution line along Tunasa Crescent, Carrier Crescent, and Tunasa Drive and up to the water tower. The new Water tower will be installed in June 2025 with the project fully commissioned by October 2025.

The construction on the designated water line started in May 2025 and will be completed in October 2025. New Supervisory Control and Data Acquisition and Program Logic Control systems will be installed in the water plant in October of 2025 as well to provide real-time data and alerts in the event of a fault in the system.

These large infrastructure projects demonstrate the municipality's commitment to safe, sustainable water supply within the Fraser Lake.