

Water System Description

The Alto Utilities Ltd. water system provides water for approximately 420 domestic unmetered connections, 1 school and 1 metered church (approximately 1000 people).

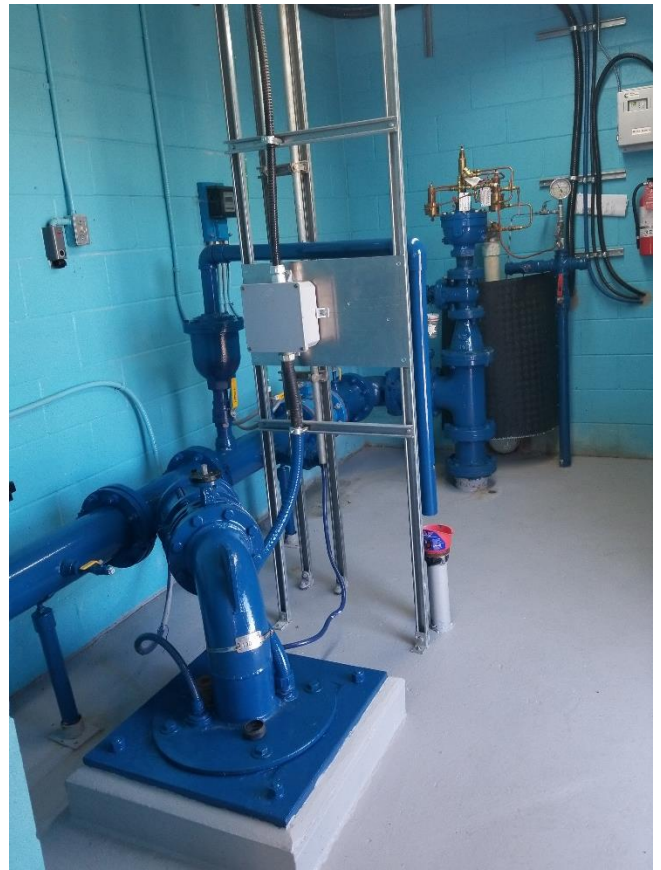
Untreated groundwater is drawn from two deep wells located on Lodge Road. These wells replenish three concrete reservoirs with a total capacity of over 1,700m³. The reservoirs are situated above the subdivision where gravity feeds the system through a series of mains, 32 fire hydrants, and two pressure reducing valve stations (PRVs).

Alto Utilities operates as required, and in accordance with the following programs:

- Capital Plan - no updates this year.
- Water Quality Monitoring Plan - monitoring continues as required.
- Emergency Response Plan - updated with current contact numbers. An electronic copy has been forwarded to the Interior Health Authority.
- Cross Connection Control Program - no changes this year.
- Environmental Operators Certification - Alto has negotiated a service contract to provide a Level II Operator, as well as a Level 1 Operator In Training.



Lodge Road Pump House



Inside the Lodge Road Pump House

Alto Utilities Ltd. is a privately-owned, public regulated water utility.

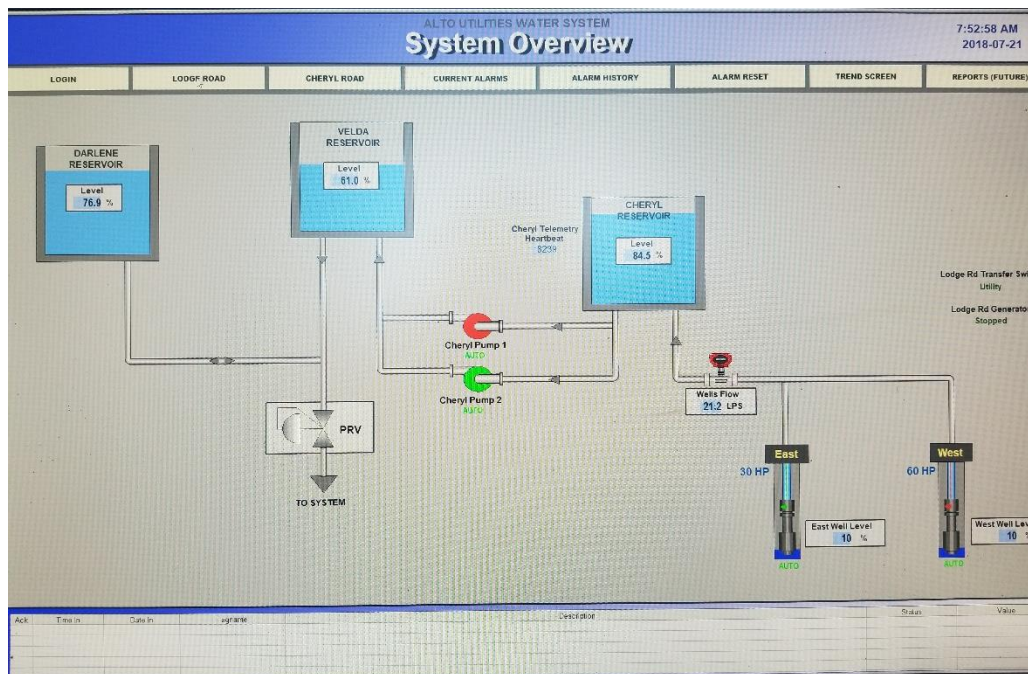
System Improvements & Maintenance

The distribution system was originally constructed in 1970, and has seen various upgrades over the years. This year we replaced one of the main pumps in the Cheryl Rd booster station. We also did a study with our engineers on the Darlene Rd PRV as to whether or not to refurbish and bring the PRV above ground. At this time we decided to leave the Darlene Rd PRV for the time being as this is a costly upgrade.

Alto Utilities performs annual inspections of all hydrants on the system, and reports findings to the local fire department.

The entire system is flushed semi-annually in April and October to ensure piping is refreshed and minor sediment within the pipes is removed. Monthly flushing is also performed on all ends of the system.

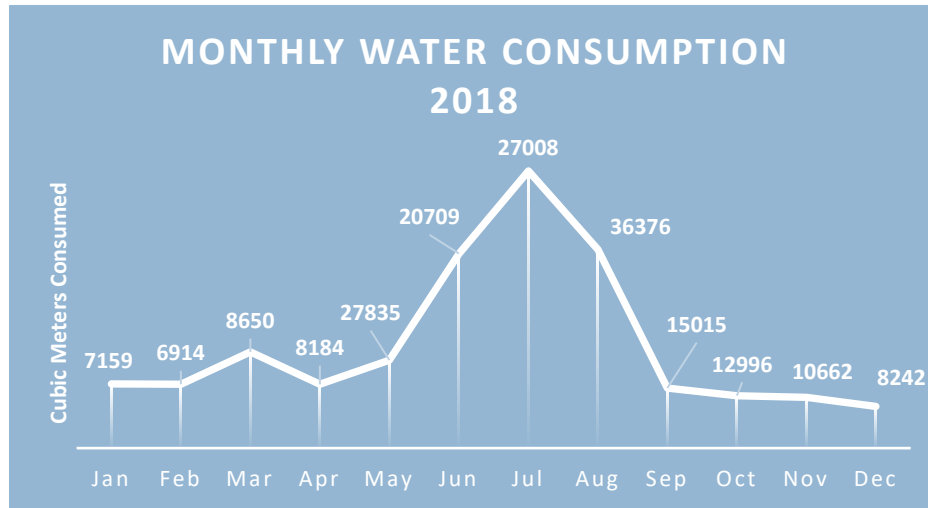
Billing is also being streamlined with the introduction of an electronic billing system. Bills are issued semi-annually in April and October.



Radio Telemetry System Overview

Water Consumption

Annual consumption was 239,944 cubic meters. Excellent job on saving water in 2018, that's a savings of 30,600,000 liters of water compared to the previous year.



Water Sampling & Quality Monitoring

Samples are collected on a weekly basis. We have four distribution points from which we collect and one source point; these are tested by an accredited laboratory. Of the 57 samples collected for bacteriological analysis in 2018 all met the standards set out in the B.C Drinking water Protection Regulation. Alto Utilities submits monthly reports to Interior Health. In 45 years, Alto Utilities has never had to issue a Boil Water Advisory.

Alto Water System	Total #of samples in 2018	E. Coli	Total Coliform
Source	12	0	0
Distribution	45	0	0-1

- No Total Coliform detected on resample

Sample Locations

- Woodsdale Road Test Station
- Darlene Road Test Station
- Velda Road Test Station
- Peter Greer Elementary School
- Main Pump House, Lodge Road

In addition, a complete chemical analysis of each well source is completed by an accredited laboratory; the most recent one was completed in the fall of 2018.