



INNOVATION

A LOOK INSIDE METRO VANCOUVER'S SEYMOUR-CAPILANO FILTRATION PLANT

Metro Vancouver's drinking water comes from reservoirs in three watersheds – Capilano, Seymour and Coquitlam. The Seymour-Capilano Filtration Plant (SCFP) treats water from both the Seymour and Capilano sources.

The Seymour-Capilano Filtration Plant provides two-thirds of the water for Greater Vancouver's 2.4 million residents, primarily to the westernmost of the region's 20 Water Districts.

The plant is located in the Lower Seymour Conservation Reserve, and is the largest water filtration plant in Canada. It began distributing water to the residents of Metro Vancouver in December 2009, and has the capacity to produce up to 1.8 billion litres per day.

An extensive ten year project to improve the water quality and supply in all seasons was completed in May 2015 as twin water tunnels connecting the

Seymour and Capilano watersheds became operational. The underground tunnels transport water over 7 kilometers from the Capilano Reservoir to this filtration plant, so that water from both Seymour and Capilano can be treated at one facility.

The primary objective of the filtration plant is the removal of particulates, organic matter and micro-organisms that are naturally present in the source water. This ensures a safe and high quality of drinking water that exceeds the Guidelines for Canadian Drinking Water Quality.

Water Services: People & Process

The centralized control room at SCFP is responsible for monitoring, operating, treating and distributing drinking

water to Metro Vancouver's member jurisdictions. The computerized control system allows operators to remotely monitor and operate Metro Vancouver's region-wide water distribution and wastewater collection systems 24 hours a day, seven days a week.

All staff (Operations, Maintenance, Quality Control and Control System Specialists working at the SCFP are highly trained and qualified. All water treatment and distribution operations staff are certified by the Environmental Operators Certification Program, and maintenance staff are comprised of certified electricians, mechanics, instrument mechanics and millwrights.

INNOVATION

If you have implemented new technology, please help us share the information with your fellow Operators.





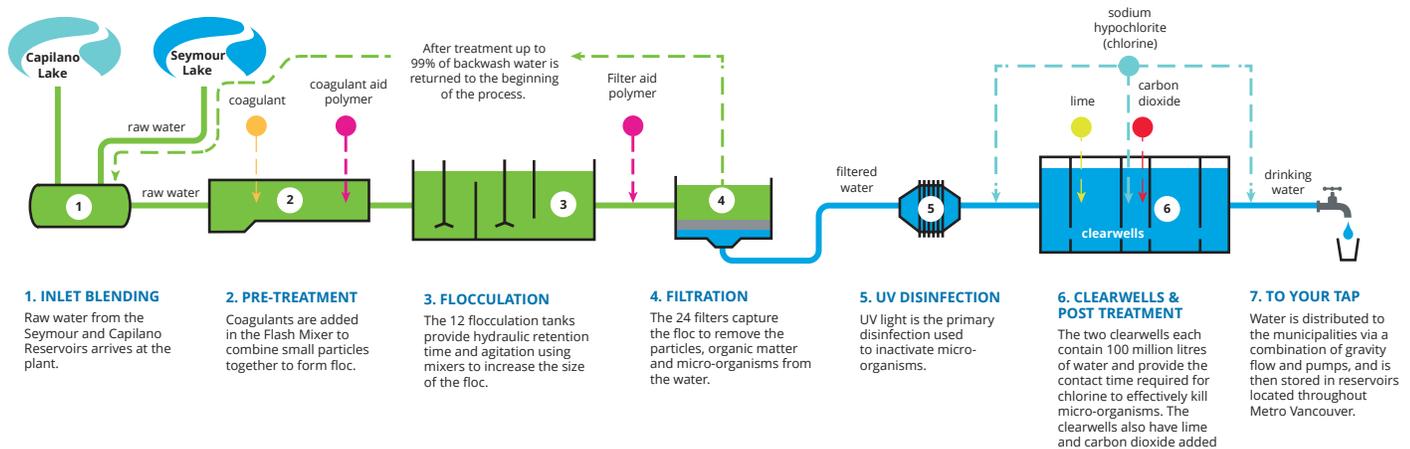
LEED® GOLD BUILDING

The Seymour-Capilano Filtration Plant follows LEED®, an international green building certification system committed to improving energy savings, water efficiency, and CO2 emissions reduction. LEED features are incorporated in all areas of the building and process.

The LEED® green building rating system is a third-party certification program and an internationally accepted benchmark for the design, construction and operation of high performance green buildings.



The water filtration process



Treating the waste water

