

Drinking Water Treatment System (150m³/day)



Case Study Details

This project was implemented to provide safe drinking water for the Canadian Forces Station (CFS) Alert located in Nunavut, Canada's northern most inhabited location.

Design Criteria: flow of 150 m³/day (10 m³/hr) and the required effluent characteristics according to the Guidelines for Canadian Drinking Water Quality (GCDWQ). Water is continuously pumped from Dumbell Lake approximately 2.4 km from the water treatment facility.

The water treatment packaged system was designed, built, shipped and started up by H2FLOW. The treatment system comprised of three Kinetico Hydrus Macrolite media filters for filtration and two Trojan ProMax Ultra Violet (UV) units for disinfection. The treatment system was built and mounted on an epoxy coated steel skid, pre-wired, pre-piped and equipped with controls and instrumentation.

Buyer: Public Works and Government Services

Supplier: H2Flow Equipment Inc.