



AWS/ERWS Operations January Updates

Update #1 February 2023



New Piping for UVT Analyzer



Valve Seating and Blower Anchoring Work by Contractor

- Arrowsmith Dam Emergency Plan (DEP) was issued and accepted by the province in January 2023.
- Staff completed a deep cleaning of the strainers. More frequent cleaning is required in the fall and winter due to river higher seasonal turbidity levels. Manual dismantling, power washing, and assembling the units are required.
- New piping and sampling points were installed for the ultraviolet (UV) analyzer to eliminate air in the line that causes intermittent spikes and faulty alarms.
- Staff completed routine service on the air compressors which included motor checks, oil change, oil, and air filter replacement.
- New water service line was installed to increase the pressure for the coagulant dosing line. This increases the response time, accuracy, and provides a wider dosing range.
- Contractor returned to site to exercise and seat the main isolation butterfly valve and secure the blower units to the concrete base, under warranty.
- Our in-house engineer is updating Scada programming and system graphics.

Upcoming

- Contractor will be on site in February to review the system performance, to ensure efficiencies.
- Chemical underground spill holding tank will be cleaned out as part of the routine service.
- Preventative and maintenance service will be carried out for the ultrafiltration (UF) membrane system.
- Sampling will be conducted on the water distribution system to assess the well and surface water blending.
- Detailed cathodic inspection will be conducted for the Top Bridge Reservoir in spring. It is a technique used to inspect and ensure adequate measures are in place for corrosion control.

Watershed and Dam Level Update

- Arrowsmith Lake Dam (elevation 818.3m) is **53% full**, 10.2m below the spillway level. Typically, the lake is full at this time of year. The unprecedented prolonged dry weather in 2022 is affecting this year's reservoir levels. Seasonal rainfall dropped to a third of what it is normal. January total rainfall is ~30% less than average. Snow pillow (snow water equivalent) depth is at 400mm, well below minimum range. Staff will continue to work closely with ministry partners to monitor conditions and adjust operational actions to support a healthy river ecosystem as we head into spring and summer.
- Water consumption was approximately 14.8% lower than in January of last year.

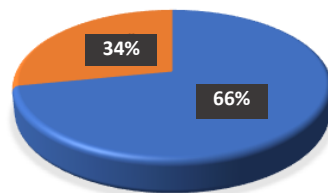
Monthly Production and Consumption Facts

130,107 m³



Parkville wells and ERWS totals

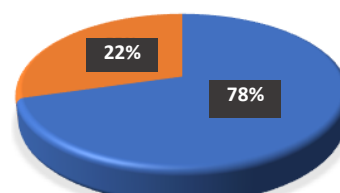
Production Source



Well Plant

Parkville wells and ERWS totals

Consumption Percentage



RDN Parkville

Well water not included in percentages