



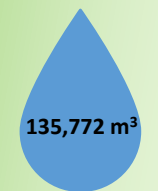
Update #11 January 2024



Arrowsmith Dam



WTP - Programmable
Control Logic



Total production
January 2024

AWS/ERWS Operations January Updates

- Due to the snow level being at high elevation, driving to the dam was achievable in January. A drone and camera could still be used should the snow level drop again.
- Cameras were cleaned and adjusted and chambers pumped of groundwater.
- The focus for January and start of 2024 has been on the chemical room CIP systems, optimizing chemical use and membrane health by:
 - New, flow based, UF cleaning scheduler was implemented for individual membrane trains. Operations now have greater control to adjust the cleaning schedule for seasonal changes.
 - All CIP pumps were calibrated, and better control of chemical dosing was implemented with SCADA utilizing feedback from the chemical pumps.
 - The hydroxide pumps were removed, cleaned, and serviced. The minor leaks that had been present in system were addressed at the same time.
- Water treatment plant operators had an introduction and training of new maintenance software that will be implemented at the plant later this year.
- As part of the preventative maintenance program, a contractor was brought on site for electrical inspection and service of high lift pumps, backwash pumps, low lift pumps and CIP pumps. Operators also exercised high lift room valving during this work.

Upcoming Work

- More training and setup work is planned for the maintenance software that will be implemented at the water treatment plant later this year.
- An investigation into other coagulants that could be more cost effective and possibly improve water treatment plant performance will be underway next month, with a chemical supplier scheduled to come do bench scale testing.

Watershed and Dam Level Update

- Arrowsmith Lake Dam is **98% full** (elevation 827.8m, end of January 2024), which is quite a bit higher than this time last year. The heavy rains in December helped a lot. The snowpack is lower than normal.

January Production and Consumption Facts

