



YOUR WATER CYCLE UTILITIES

Beginning in the heart of the Canadian Rockies, your water flows down the North Saskatchewan River before reaching the Rossdale and E.L. Smith Water Treatment Plants. EPCOR's treatment facilities take up to 12 hours to clarify, disinfect and fully treat the water. During this process our water quality testing lab tests and adjusts for more than 300 parameters so we can provide you with the high quality drinking water for safety, colour, smell and taste.

Your water travels thousands of kilometers through an underground piping network throughout the city of Edmonton to make sure it's always there when you turn on your tap, take a shower or flush your toilet. As part of the integrated drainage system, stormwater pond facilities and reduce the risk of neighbourhood flooding by managing runoff and sending it to the river in a combined sewer system to the Gold Bar Wastewater Treatment plant. The system also uses dry ponds, which are green spaces that act as catch basins for excess stormwater during heavy rainfalls to help prevent flooding.

- 1** The health of the North Saskatchewan river is important. That's why we've invested in programs like our WaterSHED partnership, that includes 19 monitoring stations that test for turbidity, colour, and metals to help determine long-term changes in water quality.
- 2** EPCOR's Water Treatment process allowed Edmonton to be named North America's best tasting tap water in 2019 by the America Waterworks Association.
- 3** We're improving Edmonton's distribution system every year with our renewal and cathodic protection programs to minimize the number of water interruptions. In fact, the work we do has led to a 27% reduction in water main breaks in 2020.
- 4** One way we're helping ensure water quality, is the continued expansion of our lead management program, replacing high priority lead service lines, and the addition of orthophosphate to provide lead reduction for all Edmontonians.
- 5** EPCOR's Stormwater Integrated Resource Plan includes significant improvements to Edmonton's drainage system that are designed to slow and move stormwater away from high-risk areas.
- 6** Edmonton treats approximately 265 million litres of wastewater every single day. Thanks to our constant planning and upgrades, we're able to safely handle incoming wastewater flows without expanding beyond our fenceline through to 2060 and beyond.
- 7** Our water facilities need to be close to the river, that's why it's critical to invest in protecting our plants against floods. We are currently working through a flood mitigation strategy to ensure our plants are prepared for large flooding events that include a 1 in 500 year flood.

Edmonton's water cycle utilities includes:

- Two water treatment plants and one wastewater treatment plant
- 13 water reservoirs that can hold 811 million litres of water
- 7,053 km of water mains and sewer pipes
- 262,363 customer connections to the sanitary system
- 21,708 hydrants and 73,940 water valves
- 295 Stormwater pond facilities.