



2017 CANMORE PERFORMANCE REPORT



PROVIDING MORE



CONTENT

About us	3
EPCOR and the community	4
EPCOR and the environment	5
EPCOR maintenance and capital program	6
EPCOR and our employees	7
EPCOR Advantage	8



ABOUT US

EPCOR has been providing clean drinking water and wastewater services for more than one hundred years. We serve more than one million people in over 85 communities and industrial sites across Western Canada and the United States.

EPCOR has been providing water and wastewater services to the Town of Canmore for 16 years. Our full spectrum of services includes water and wastewater treatment, water distribution, wastewater collection, storm drainage, meter reading, customer billing and account management. We have a fixed-price, performance-based utility management agreement with the Town to continue providing services until 2020. The Town sets the utility rates and retains ownership of all the water works related assets on behalf of the citizens of Canmore.

We work in partnership with the Town to ensure our performance consistently meets the high standards that Canmore residents expect. This report is part of our commitment to accountability and transparency.

We are accountable to deliver service that meets key measures for Environment, Customer Care, Safety, Quality Assurance, Operational Excellence and Capital Programs.



EPCOR AND THE COMMUNITY

Our customers push us to achieve the highest customer standards possible. We understand the importance our customers place on reliable water and wastewater services. It's why we work hard to provide our customers with great service.

At EPCOR, our employees are proud to deliver safe, clean and great tasting drinking water to the Canmore community.

The Guidelines for Canadian Drinking Water Quality, established by Health Canada, set the maximum acceptable concentrations of microbial, radiological and chemical contaminants found in water. They also address the aesthetic water quality issues around colour and taste. These guidelines are the basis for the work we do to ensure our customers receive the best quality drinking water.

Ensuring Water Quality

We conduct ongoing water quality tests in compliance with Alberta Environment and Parks' (AEP) Approval to Operate requirements.

In Canmore, we monitor 75 water quality parameters and conduct more than 5,000 water quality tests each year.

Responding to Outages

Our crews work quickly and safely to restore service when an outage occurs. In 2017, EPCOR responded to and resolved 28 water outages within 24 hours.

Community Engagement

Through EPCOR's Community Essentials Council (EECC) and Helping Hands grant program, we support organizations that enhance the community's quality of life.

In 2017, EPCOR supported the Canmore Eagles, Canmore and Area Health Care Foundation, the Bow Valley Christmas Spirit Campaign and the Canmore Public Library.

A summary of EPCOR's performance is shown in the table below.

[illegible]

EPCOR AND THE ENVIRONMENT

The health of our water supply affects us today and tomorrow. That's why EPCOR goes above and beyond to protect the environment while ensuring future generations have access to clean and safe water.



EPCOR is focused on watershed protection in the Bow Valley and has initiated a number of programs to protect the environment.

Our Environmental Performance Plan for the Canmore Wastewater Treatment Plant (WWTP) sets the desired environmental outcomes and strategies for land, air and water. Many of these activities are preventative management best practices.

EPCOR monitors activities in relation to the environment, as shown below. We complete more than 2,500 tests annually on the wastewater effluent from the plant.

Leveraging our Specialized Expertise

A process disruption at the WWTP occurred during the 2016 Christmas holiday, which resulted in the six contraventions outlined below. EPCOR undertook a 10 month investigation utilizing process engineers, microbiologists and certified wastewater experts from other EPCOR sites to identify the root causes and resolve the problem.

EPCOR then enlisted our Project Management division and related experts from our Edmonton office to oversee a critical rehabilitation of the WWTP filters. The project replaced more than 30,000 components within a short time frame and returned the WWTP to the Town's Approval to Operate compliance levels.

Activity	Actual Values							Target Value
	2011	2012	2013	2014	2015	2016	2017	
Releases	5	3	4	0	0	2	1	9
Contraventions*	4	9	14	7	7	11	7	6
Proactive Activities	23	70	25	11	10	10	14	9
Regulatory Reporting	100%	100%	100%	100%	100%	100%	100%	100%

*2017 Contraventions

- Six contraventions were due to treated wastewater not meeting the AEP limit for monthly total ammonia nitrogen.
- One contravention was due to a cooler with samples for analysis of TKN, NO₂ & NO₃ not reaching the lab due to the shipping label detaching in transit.

We proactively manage the infrastructure through regular maintenance, evaluations and improvement programs. Using key performance indicators, the Quality/Efficiency Index (below) shows how we performed on our preventative maintenance activities and power consumption.

Capital programs vary from those included in the maintenance program (below) to ideas identified by EPCOR subject matter experts to help ensure the utility is at the forefront of industry best practices.

Committed to our Customers

On Dec. 23, 2016, the Town experienced a water main break in the Silvertip neighbourhood. EPCOR responded immediately by bringing staff back from scheduled holidays and sourcing a construction crew from Calgary to help repair the break. We restored water to all 70 homes by 3 p.m. on Dec. 24. EPCOR staff remained on site until 8 p.m. that Christmas Eve to monitor the water flow and secure the site, allowing affected households to enjoy the holiday with their friends and families.

2017 CAPITAL PROJECTS

- WWTP Back-up Power System Upgrade
- Inflow & Infiltration Detection and Repair
- Water Meter Life Cycle Replacement
- WWTP De-watering System Upgrade – Design
- WWTP Back-up Power Upgrades
- WWTP Influent Lift Station Capacity Upgrade
- WWTP Process & Mechanical Systems Upgrade
- Lift Station 2 Redesign
- Garburator Impact on Wastewater System Study

2018 PLANNED CAPITAL PROJECTS

- Inflow & Infiltration Detection and Repair
- Water Meter Life Cycle Replacement
- WWTP De-watering System Upgrade – Design
- WWTP Upgrade to Meet TAN Approval Level
- WWTP Influent Lift Station Capacity Upgrade – Phase 2
- WWTP Process & Mechanical Systems Upgrade
- Lift Station 6 Life Cycle Replacement – Design
- Energy Efficiency Initiatives Study

[illegible]

EPCOR AND OUR EMPLOYEES

Our employees are at the heart of our operations in Canmore. We are committed to ensuring their safety and providing them with opportunities for professional development.



Making sure our employees and contractors get home safely after work is a top priority for EPCOR.

Our staff and contractors in Canmore haven't had a single lost time incident since the Safety Index was introduced in 2006.

These positive results stem from our continual emphasis on safety training for existing staff, new employees and contractors.

The safety index (below) shows that each employee received 33 hours of training on various topics, including WHMIS*, SCBA** and Confined Space Entry, just to name a few. It also notes that there were 552 preventative activities carried out, including regular site safety inspections, safe work plans and hazardous energy isolation permits.

Developing Water Professionals

Continuous training is a sign of our commitment to the safety of both our staff and the public. In 2018, each EPCOR employee in Canmore will participate in a minimum of 32 hours of safety training.

To ensure ongoing operational excellence, EPCOR works with our operators to maintain or expand upon their current level of certification.

Currently, 9 of 10 operators are certified by AEP. We continue to cross-train operators to provide them with the experience necessary to increase their certification levels in all four water disciplines: water treatment, distribution, wastewater treatment and collection.

Activity	Actual Values							Target Value
	2011	2012	2013	2014	2015	2016	2017	
Training	35	26	25.6	23.5	31.7	34	33	32
Prevention	164	233	439	515	412	665	552	435
Meetings	12	12	12	12	12	12	12	12
Lost Time Incidents	0	0	0	0	0	0	0	0

*Workplace Hazardous Materials Information System

**Self-Contained Breathing Apparatus

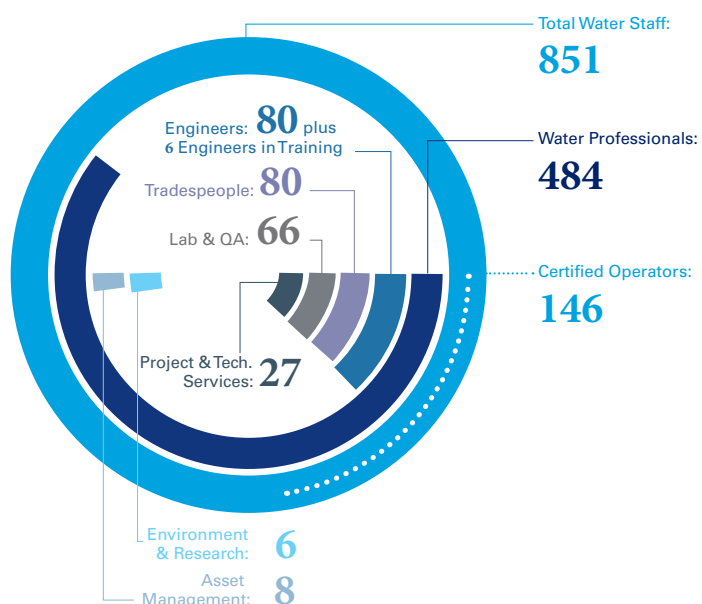
EPCOR ADVANTAGE

EPCOR provides the Town with support above and beyond the services performed by our qualified water and wastewater staff in Canmore. As the largest private utility operator in Alberta, the depth of our expertise stretches beyond basic services.

We understand the environmental sensitivity of the Bow Valley and watershed, which is crucial to navigating changes in regulatory approvals. We also have an established emergency response approach with the ability to access additional regional resources for operations, communications and quality assurance.

EPCOR supports the community with value-added programs including stakeholder engagement, community investment, integrated health and safety and supply chain management, among others.

A complete look at our specialized resources in Western Canada is shown in the image on the right.



As partners in delivery of essential services to the community, we utilize the critical resources required to ensure that customers in Canmore are satisfied with their water and wastewater services.



EPCOR Canmore

**102B Bow Valley Trail
Canmore, Alberta
T1W 3B7**