





## Water Security Update


UCS2019-1539  
ISC: Unrestricted  
Presentation to SPC on UCS  
18 Dec 2019

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## Water Security: Background

### What is Water Security?

“Having enough safe water for human well-being, ecosystem resilience and economic activities now and for future generations”



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ITEM:	<u>7.1 UCS2019-1539</u>
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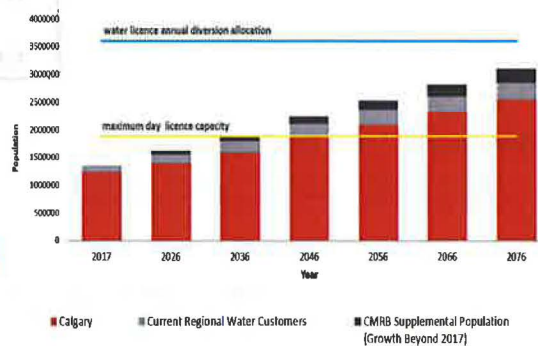
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### One Calgary One Water

*A Framework for Calgary's water secure future*



- Critical risks
- Key initiatives
- Priority actions



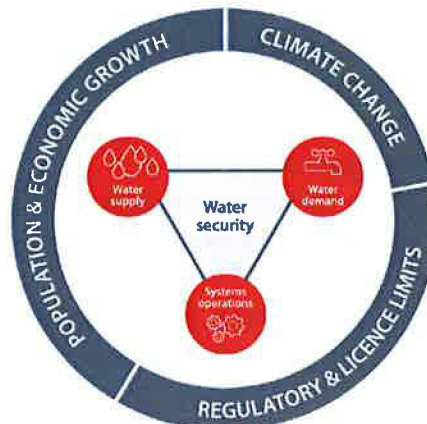
**Changing Climate**

**Regulatory and Licencing Limits**

**Population and Economic Growth Pressures**

**Water Security: Key initiatives****Supply**

- Source water
- Water reuse
- Filtration technology

**Demand**

- Water efficiency
- Demand forecasting
- Drought preparedness

**Systems Operations**

- Water long range plan
- Water loss reduction
- Glenmore gates

**Water Security: Six Priority Actions****1. Develop future water supply scenarios**

- Mobilize knowledge to guide servicing, infrastructure and programming decisions

**2. Address water licence limits on high demand days**

- Accommodate population growth and ensure operational flexibility at Water Treatment Plants

**3. Ensure collaboration on a regional solution for water security**

- Work with the Province, CMRB and other regional stakeholders to assess options to achieve long-term water security for the region

## Water Security: Six Priority Actions

4. **Advocate for new upstream reservoir on the Bow River**
  - Storage capacity to manage extreme flood and drought
5. **Finalize the Drought Management Plan**
  - Improved mitigation and adaptation strategies to ensure Calgary can operate within future water shortage shocks and stresses
6. **Finalize the Source Water Protection Plan and Policy**
  - Protect source water supply from contamination

## Administration Recommendations

That the SPC on Utilities and Corporate Services recommend that Council direct Administration to:

- (1) Report on water security annually as part of the Water Utility update to the Standing Policy Committee on Utilities and Corporate Services, and
- (1) Report on Source Water Protection Plan and Policy by end of Q2 2020.

