

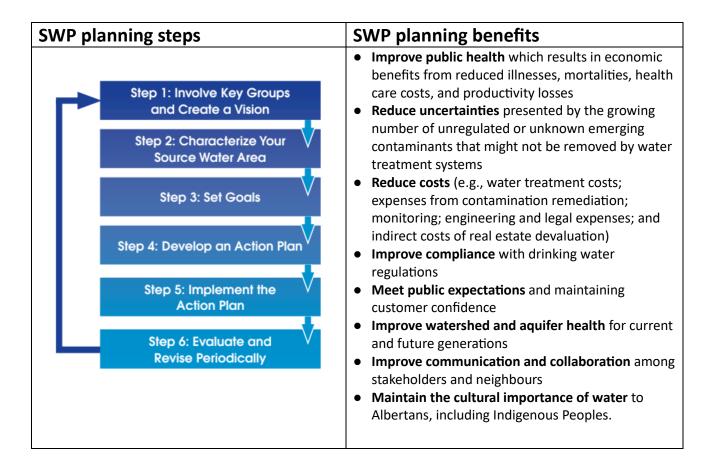
## **Alberta Water Council Source Water Protection Project Team**

#### Why source water protection (SWP)?

- Increased pressure on drinking water sources from a growing population, climate change, aging infrastructure, and increasing development
- The health and well-being of Albertans is promoted by providing access to safe and secure drinking water sources, as stated in the Government of Alberta's Water for Life strategy

#### What is SWP?

- Understanding and mitigating potential risk to drinking water sources through protecting water quality and quantity
- **Coordination among stakeholders** to develop short- and long-term plans to prevent, minimize, or control potential sources of pollution or enhance water quality where necessary



## Barriers to undertaking SWP planning in Alberta

 Manual data acquisition, processing, and analysis can involve significant cost and time, especially relevant for small urban or rural municipalities who do not have dedicated staff or resources to address water-related issues



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# The AWC SWP project aims to reduce time and cost barriers for SWP planning

- Providing a central, accessible location for data and analytical tools related to SWP in an existing web-based platform, and making general improvements to enhance the user experience
- Providing educational resources to support use of the tool through videos or written instructions
- Providing information to drive development of SWP plans such as leadership briefing documents



Information Platform for Decision Support and Evaluation of Cumulative Environmental Effects

• THREATS is a secure, web-based data visualization and analysis platform used to access and view complex spatial and time series data and predictive and model scenarios. It can be customized to include data and toolsets that address specific requirements.

Functionality planned or available in THREATS	Benefits of THREATS
<ul> <li>User-defined delineation of catchment boundaries</li> <li>Spatial map layers (e.g., parks, municipal boundaries, land cover)</li> <li>Water quality and quantity data and analysis tools</li> </ul>	<ul> <li>Reduces time and cost by making data and analysis readily available, compared to manual data acquisition and processing</li> <li>Improves decision-making through greater access to available information and data</li> <li>Provides a common suite of tools to</li> </ul>
<ul> <li>Historical data and analysis tools for</li> </ul>	support SWP planning among users across
projections and future trends	the province

#### For more information

• Contact: Project Manager Alec Carrigy <u>acarrigy@awc-casa.ca</u>

• AWC SWP Project page: <u>www.awchome.ca</u>

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