

Water Security Plan

Stage 1 - Principles

Report to Council, February 13, 2023

Rod MacLean - Utility Services

Presentation Outline

1. Why?
2. Proposed Water Principles
3. Next Steps

1. Why Water Security?

- Kelowna has an incentive to look through the “water lens”
- We live the circular water cycle
- We are prone to drought
- We see the impact of climate change.



Holistic approach

- Independent expert advice (Value Planning 2017)
- AGLG audit (2018)
- IHA - PHO report (2018)
- Supply from multiple independent water systems and sources



Added Internal Responsibilities

New Processes

Irrigation Operations

Environmental Flows

Dam Safety & Watershed Management

Regulatory Shifts & New Initiatives

BC Watershed Security Strategy

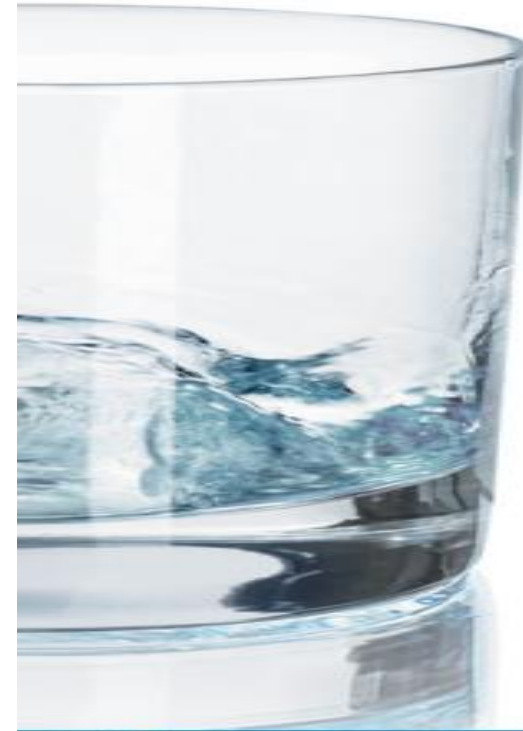
BC Flood Strategy



Watershed Security Strategy and Fund

Discussion Paper

DRINKING WATER



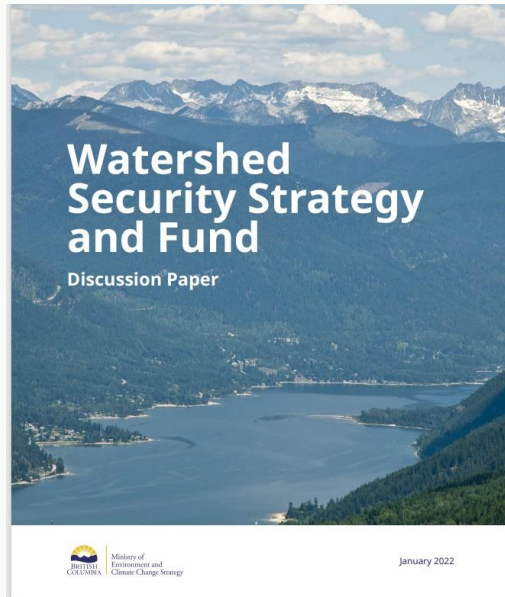
An Update on
Drinking Water
Protection
the Act
Safe Drinking
in British



Watershed Security Plan

FLNRO&RD, E&CCS, AgF&F

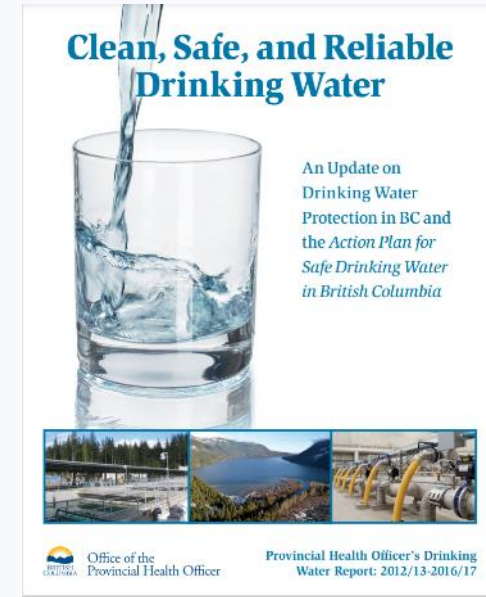
Water Sustainability Act, Forest & Range Practices Act,
Environmental Management Act



Clean, Safe, Reliable Drinking Water

Health, MA

Drinking Water Protection Act,
Local Government Act/Community Charter



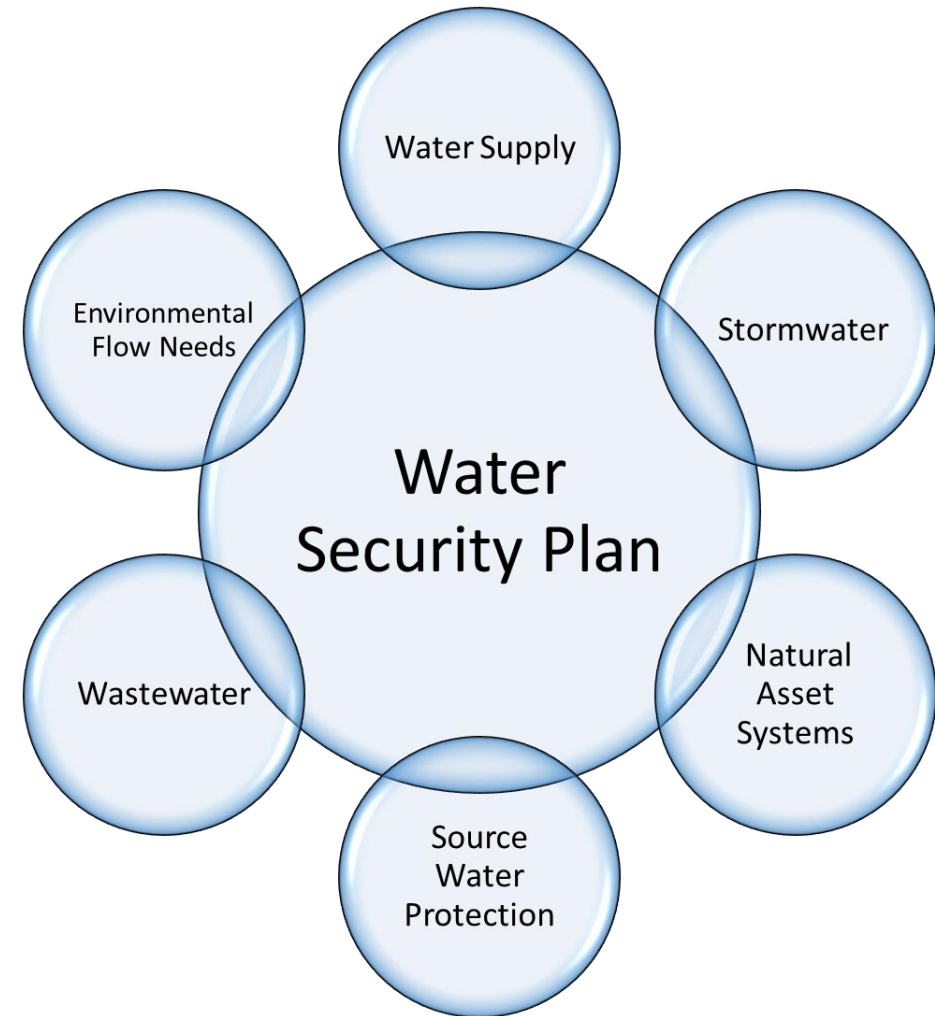
Kelowna Water Security Plan

B.C. Declaration on the Rights of Indigenous Peoples Act

Water Sustainability Plans

Stage 1 work completed

- Covers only the Kelowna Utility
- Management review by sector
- SWOT & Risk Analysis
- Gap Analysis
- Setting stage for external relationship building and partnering



2. Water Security Principles

- Looking through the “Water Lens”



Stormwater Treatment - Redlich Pond



**We rely on water for health, fire protection, agriculture,
and our community needs.**



**We rely on our surface waters throughout the valley for
fun and recreation**



**We share water with natural ecosystems
and wildlife**



**Water is a common thread that weaves together our cultures
and community values.**

Water Supply

1. All residents and water users in the City must have a safe, affordable, resilient and sustainable supply of high-quality drinking water and a reliable supply of water for agriculture.





Wastewater

2. Protect Okanagan Lake, our human health and our environment through efficient collection and effective treatment of wastewater.

Stormwater

3. Stormwater is effectively managed without negatively impacting riparian areas, infrastructure, property or Okanagan Lake.

4. The community is resilient to climate change and resistant to lake and creek flooding.





Source Water Protection

5. Okanagan Lake and upland watersheds remain a source of high-quality water.

Natural Assets & Systems

6. Account, protect, enhance and restore Natural Assets that make up our infrastructure inventory and increase environmental recovery.





Environmental Flow Needs

7. Assure that the quality and quantity of water is available to support a healthy aquatic ecosystem.

Photo Courtesy of KelownaNow.com

Governance & Partnerships

8. Indigenous knowledge, practice and permitting is effectively incorporated into water decision processes.

9. The City works in partnership with other water providers and government agencies to ensure water security.



3. Next Steps

- Engage with Council, stakeholders and the community to draft the Water Security Plan (Fall 2023)
- Return to Council with the draft Plan for final review and adoption.

Questions?



The new Frazer Lake Dam