

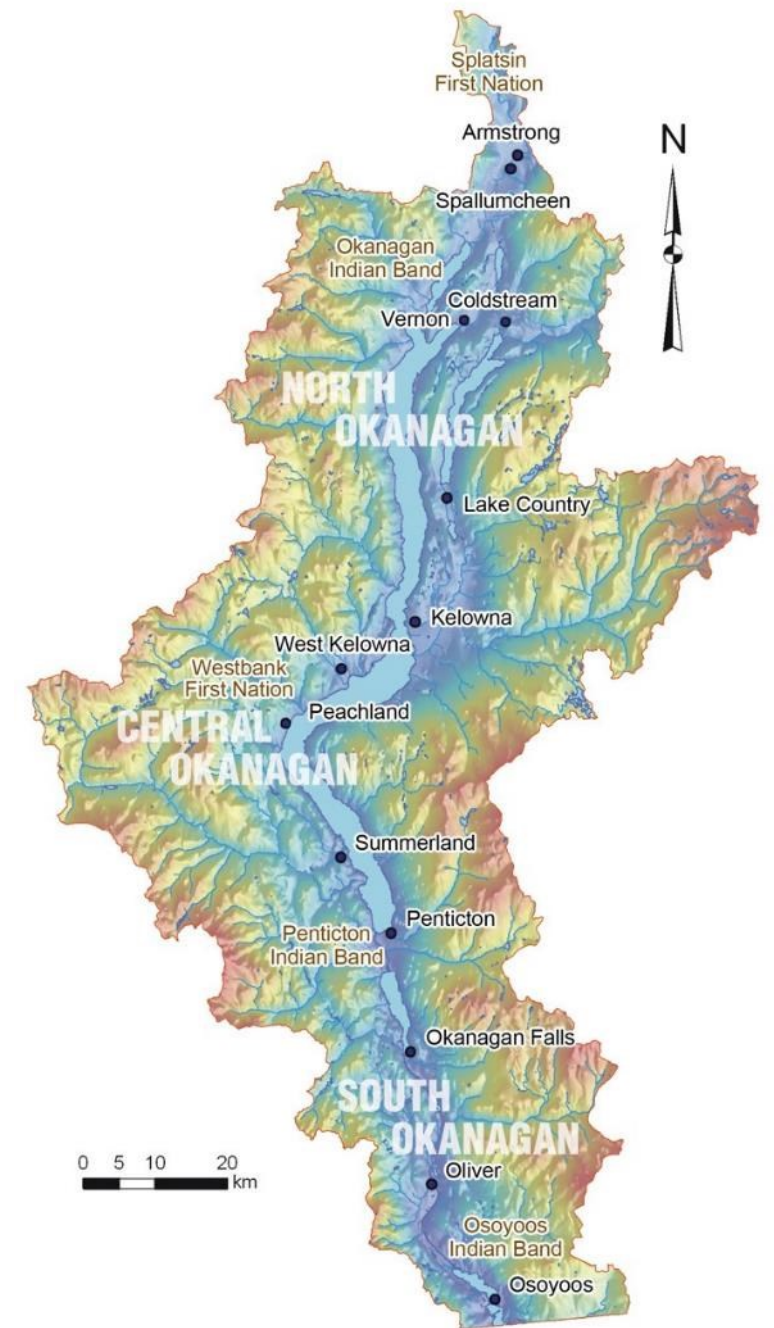
# SOURCE WATER

## Protection Toolkit



# The Okanagan Basin Water Board

- Founded more than 50 years ago
- Focus on projects and programs that benefit the Okanagan watershed as a





# **Source water protection –** *what it is and why it matters*

- **Safeguarding of drinking water sources and contributing areas**
- **First barrier in multi-barrier ‘source-to-tap’ approach**
- **Water can be easily contaminated - costly or impossible to remediate**
- **Source water protection also delivers other cumulative benefits**



# Challenges

- **Multi-use watersheds** = many players, many sources of contamination
- **Land development** = more impermeable surfaces, less infiltration
- **Climate change** = more frequent landslides and erosion, flooding, increased runoff, wildfire
- **Complicated legislative framework** = conflicting mandates, gaps in authority

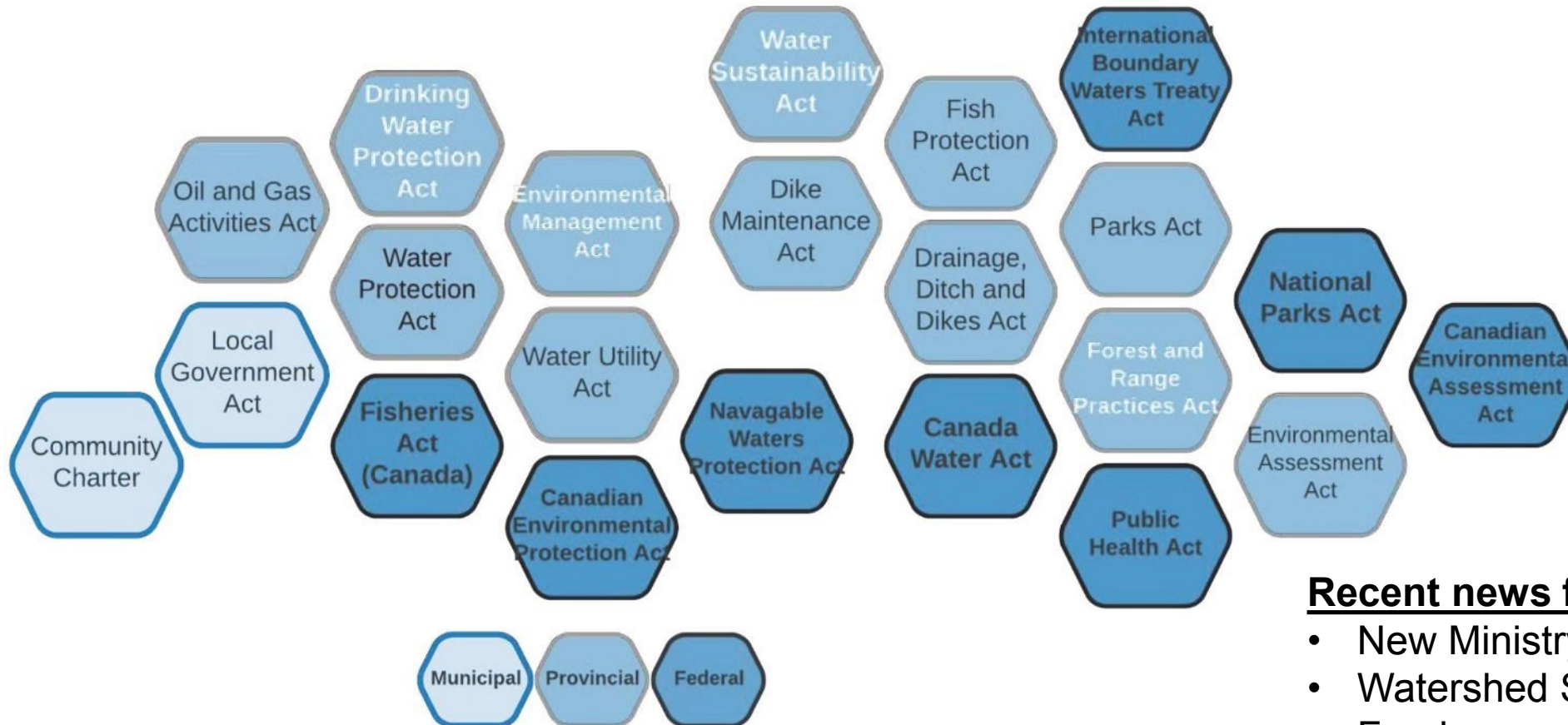




# Water governance in BC involves 23 pieces of legislation

*\*Unceded territories – Indigenous laws, rights and title*

Key legislation are in white lettering



## Recent news from the Province:

- New Ministry
- Watershed Security Strategy and Fund
- Mandate to honour the Declaration Act

# Drinking Water Protection Act

## • Conditions on Permit:

## SOURCE WATER PROTECTION PLAN

### 1. Assessment

- Delineate water source
- Identify hazards
- Assess risk
- Recommend actions

### 2. Response Plan

- Develop and implement a plan to reduce risk (living document)

Interior Health  
Health Protection

**Permit To Operate**  
Drinking Water System 301 – 10,000 Connections

Facility Number: \_\_\_\_\_  
Name of Facility: \_\_\_\_\_  
Address: \_\_\_\_\_

Primary Owner: \_\_\_\_\_  
Permit Number: \_\_\_\_\_

Conditions on Permit:	Timeline
1. Submit an application for Filtration Exemption to Interior Health.	December 1, 2021
2. Complete a Source Protection Plan.	December 1, 2022
3. Report out on Source Protection Activities in annual report.	Annually
4. Provide an updated Water Quality Monitoring Plan.	December 1, 2021
5. Submit monthly water quality monitoring reports to Interior Health.	By 10 <sup>th</sup> of month
6. Provide an annual summary of water quality monitoring results.	Annually by April 1 <sup>st</sup>
7. Provide a copy of the updated ERCP.	December 1, 2021
8. Provide an implementation plan for water system improvements.	December 1, 2021

April 1, 2021  
Effective Date

Environmental Health Officer

March 31, 2022  
Expiry Date

June 25, 2021  
Issue Date

Place Decal Here

*This permit is nontransferable and must be displayed in a conspicuous place*

# Purpose of the project

- ✓ Identify barriers/issues and solutions together
- ✓ Clarify source protection planning process
- ✓ Compile and deliver best practices
- ✓ Share successes and lessons learned
- ✓ Help communities understand jurisdiction

## Technical Advisory Committee Members

<b>NAME</b>	<b>ORGANIZATION</b>		
Andrew Reeder	Regional District of Okanagan-Similkameen	Laura Code	B.C. Ministry of Agriculture
Andrew Petersen	B.C. Ministry of Agriculture	Marni Turek	University of British Columbia Okanagan
Angela Lambrecht	Regional District of Central Okanagan	Michael Firlotte	City of Penticton
Anna Warwick Sears	Okanagan Basin Water Board	Nelson Jatel	Okanagan Basin Water Board
Bob Hrasko	Black Mountain Irrigation District	Nicole Penner	Associated Environmental Consultants Inc.
Brent Magnan	City of West Kelowna	Patti Meger	District of Lake Country
Brittany Lange	Regional District of Central Okanagan	Ray Crampton	B.C. Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Cory Labrecque	Regional District of Okanagan-Similkameen	Renee Clark	Independent
Dan Ricciuti	City of West Kelowna	Rob Hillis	City of West Kelowna
Danielle Noble-Brandt	City of Kelowna	Rob Dinwoodie	B.C. Ministry of Forests, Lands and Natural Resource Operations and Rural Development
Dave Tamblyn	First Nation Health Authority	Rob Birtles	Interior Health Authority
Dennis Einarson	B.C. Ministry of Environment and Climate Change Strategy	Rob Fleming	First Nations Health Authority
Desni Bachmann	City of Kelowna	Robyn Laubman	Splatsin First Nation
Devon van der Meulen	District of Summerland	Scott Boswell	Okanagan Collaborative Conservation Program
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Jing Niu	City of Vernon	Tessa Terbasket	Okanagan Nation Alliance
Kat Zimmer	B.C. Ministry of Health	Tracy Guidi	City of Kelowna
Krista Derrickson	Westbank First Nation	Tricia Brett	Regional District of North Okanagan
Laura Frank	Regional District of North Okanagan	Tyler McNeill	Township of Spallumcheen
Lorne Davies	B.C. Wildlife Federation		

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## Key Messages

## Acknowledgements

### INTRODUCTION

Clean water – essential and irreplaceable  
Syilx/Okanagan Nation *siwtk*<sup>™</sup> (Water) Declaration  
Purpose of the Toolkit  
How to use the Toolkit

### PART 1: ROADMAP TO SOURCE WATER PROTECTION

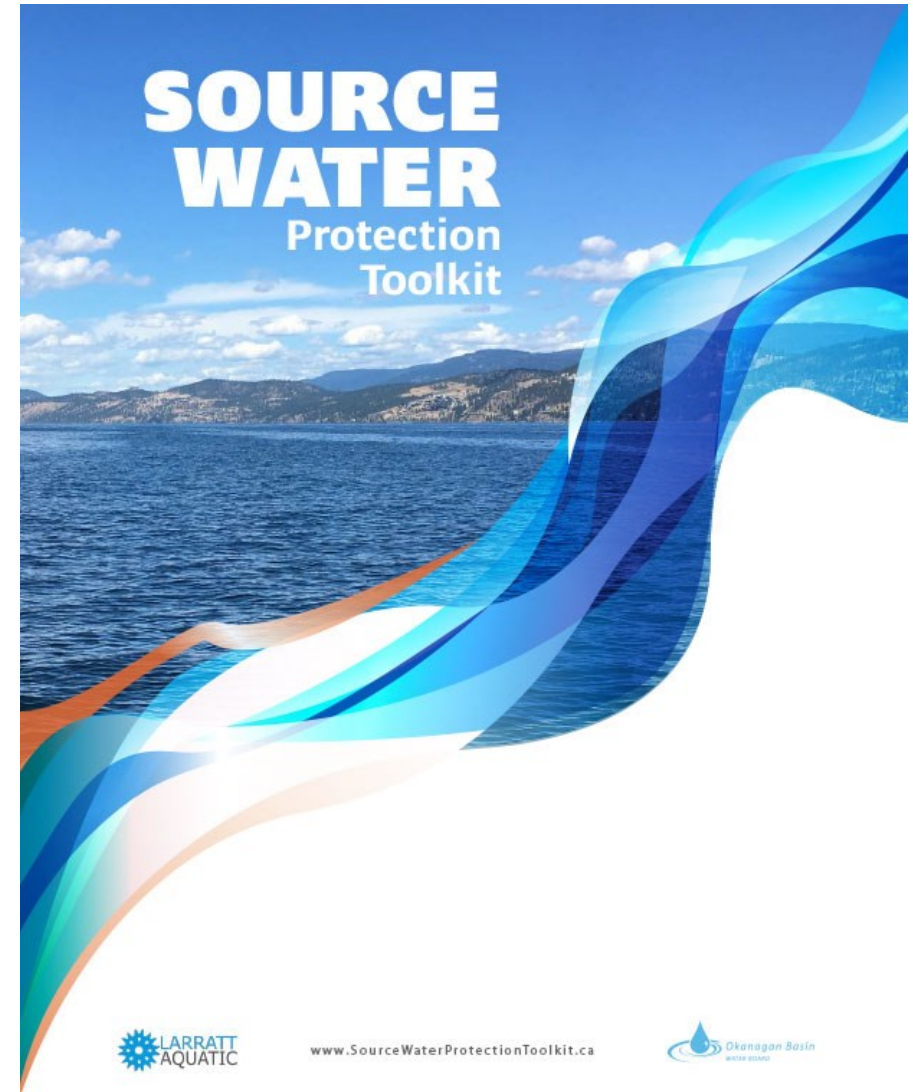
STEP 1. Partner  
STEP 2. Assess  
STEP 3. Plan  
STEP 4. Act  
STEP 5. Evaluate

### PART 2: THE TOOLS

TOOL 1. Collaboration  
TOOL 2. Funding  
TOOL 3. Policies, plans, and bylaws  
TOOL 4. Education and engagement  
TOOL 5. Natural assets and green infrastructure  
TOOL 6. Emergency preparedness and response  
TOOL 7. Mapping  
TOOL 8. Monitoring and reporting

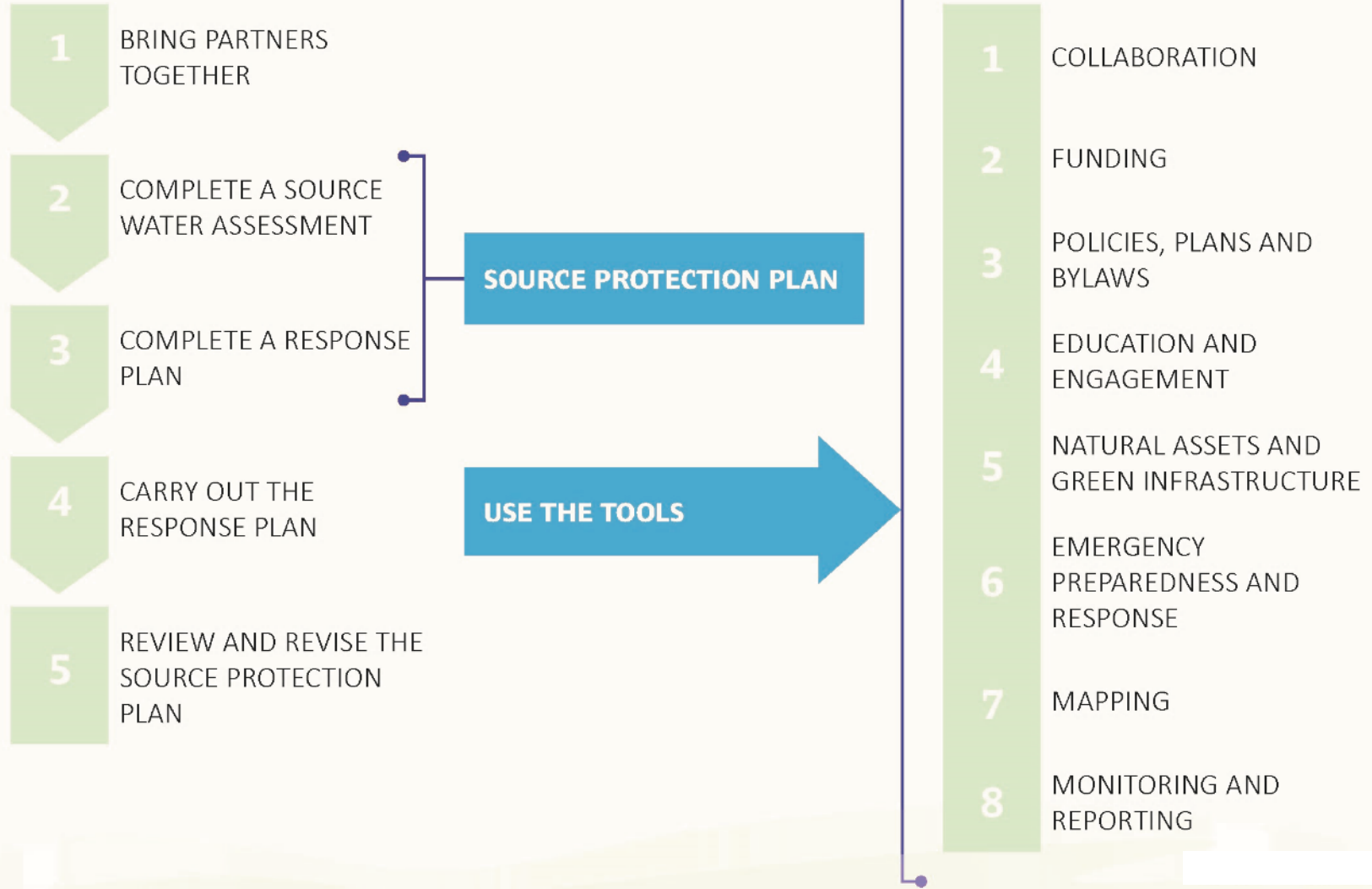
### PART 3: ADDITIONAL INFORMATION AND RESOURCES

3.1 Regulatory framework  
3.2 Economic benefits of source water protection  
3.3 Common threats to drinking water and how to overcome them  
3.4 Useful links  
3.5 Templates



[www.sourcewaterprotectiontoolkit.ca](http://www.sourcewaterprotectiontoolkit.ca)

# ROADMAP TO SOURCE PROTECTION





# Five Takeaways

1. Complex challenges, but many tools to use
2. No single organization can do it alone
3. Pooling resources results in better source protection
4. Water purveyors best positioned to lead efforts
5. Changes at the Province = positive outcomes?



**THANK YOU!**

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