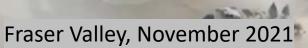
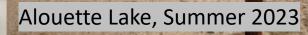
Floods! Droughts! Watershed Security! Working Together Towards Resilient Communities



# Floods! Droughts! Watershed Security!

# Working Together Towards Resilient Communities







Donnie Creek, Prince George, Summer 2023

Neekas Cove, Heiltsuk territory, Summer 2022

NO LIFÉGUARD ON DUTY

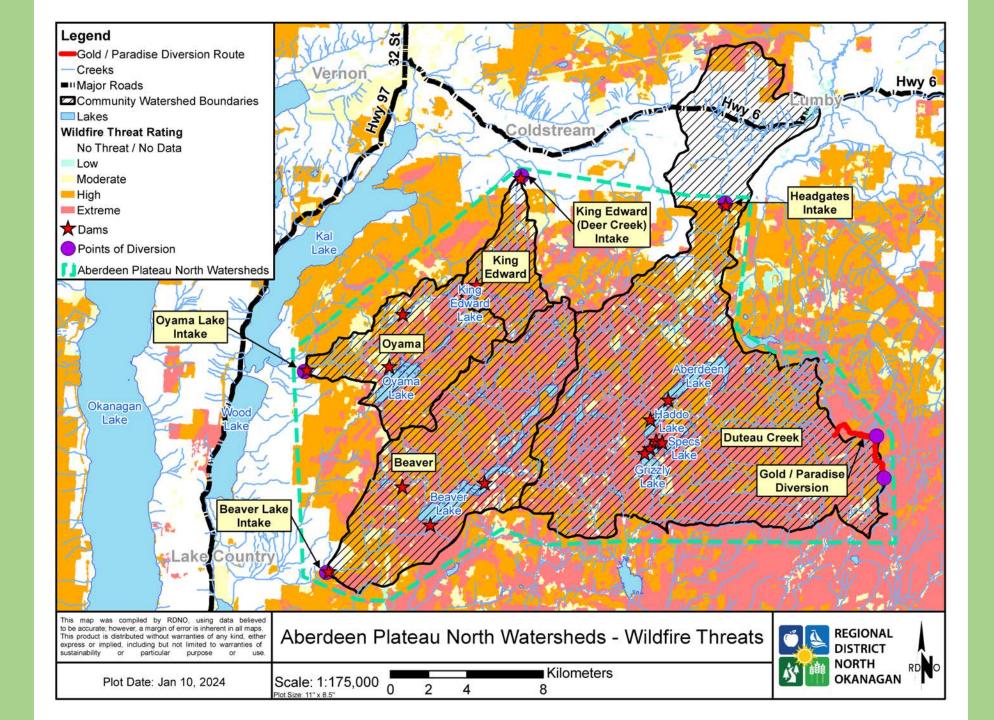


#### Riparian restoration on a blueberry farm, Pitt Meadows

### Lake Country



Photo credit: https://livelakecountry.com/safety-and-emergency-information/



# Flood Risk in BC

- Pre-colonization, flood risk managed with variety of practices and techniques
- Past 100+ years => emphasis on 'flood control'
- Now, BC Flood Strategy: integrated flood management (the whole toolbox) & commitment to UNDRIP



Collaborating for Resilience in the Lower Fraser

- Regional & subregional dialogues: First Nations & local governments
- Critical infrastructure & local essential services understanding risk
- Catalyzing flood risk reduction projects: design with nature



Flood Recovery, Resilience and Reconciliation in the Lower Fraser

REPORTING BACK: BUILD BACK BETTER, TOGETHER - JULY 14 2022 FORUM



Carl Carl

#### Lower Fraser Floodplains Dialogue for Regional Action

REPORTING BACK: COASTAL RIVER-TIDAL GATHERING - MARCH 12 2024





#### Lower Fraser Floodplains Forum 2023 Dialogue on Regional Action

HOSTED AT: THE'Í:TSELÍYA - S.A.Y. HEALTH & COMMUNITY CENTRE • JUNE 9, 2023





#### Lower Fraser Floodplains Dialogue for Regional Action

REPORTING BACK: MID & UP RIVER GATHERING - MARCH 13 2024



# Lower Fraser Floodplains Coalition



















School of Architecture + Landscape Architecture

- Reducing risk and adapting to climate change;
- Advancing reconciliation;
- Ensuring that salmon are thriving;
- Having everyone part of the solution;
- Supporting sustainable economies and resilient communities for the long term

# 5 Principles for Working Together

### Jason Lum, Councillor, Chilliwack & Chair, FVRD

FENCE

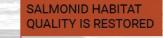
INSTALLED

INVASIVE SPECIES

REMOVED



FLOOD TOLERANT INDIGENOUS







### THE FOUNDING OF THE

### **COWICHAN WATERSHED BOARD**



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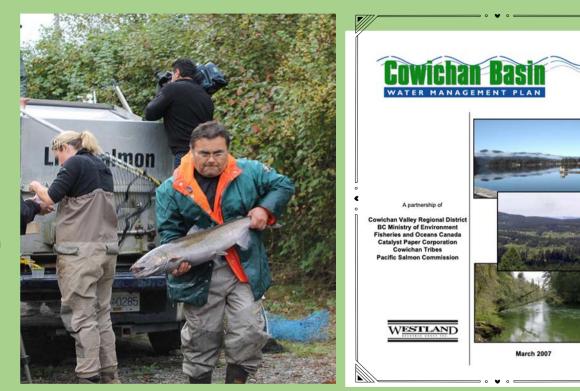
Catalyst for collaborative action was the drought of 2003 & the need to truck fish up the river.

02 The Cowichan Basin Water Management Plan was created (2004-2007. Emphasizes:

- a whole of watershed approach
- need to raise the weir
- requires new form of governance to implement the plan



In 2010, the Cowichan Watershed Board is born through the leadership of the Chief of Cowichan Tribes and the Chair of the CVRD Board of Directors.



1



### **GUIDING PRINCIPLES**

### **1.NUTSAMAT KWS YAAY'US TU QA'.** We come together as a whole to work together to be stronger as partners for the watershed.

- 2. Partnership
- 3. Representation
- 4. Watershed Emphasis
- 5. Transparency



#### WHAT HAS BEEN ACHIEVED THROUGH NUTSAMAT?

- Secured funding to raise the Cowichan (Quw'utsun) Weir
- Xwulqw'selu (Koksilah) Watershed Planning Agreement, and
- much more over the years alongside community and government partners.



Xwulqw'selu Watershed Planning Agreement	Stl'atl'um stuhw tun kwunmun.	Yaay'usme't k stem 'itunnu 1 sul'iq'tul, 'Uw
S-xats-thut tst.	Take only what you need.	sul iq tut, Ow suhiii
We agree.	Stsielhstuhw tu mukw stem ('i 'u tuna Tumuhw).	Work to bring ever environment int
Nuts'amat kws yaay'u s 'utu qa'. We come together as a whole to	Respect for all things; Respect for all beings; Respect for what is around you.	Hiiye'yutul tst'ı stem 'i 'u tun'a tu qa
we come together as a whole to work together to be stronger as partners for the watershed.	ʻUw-wu ha'kwush ʻuhw, ʻi ʻo' shtes ch ʻul'.	Everything in the na connected as part we are all re
Hwialasmut tu Tumuhw. Take care of the Earth.	Leave it the way we found it.	Ts'i'tsuwatul', o Xwulqw'selu qo
Mukw' stem 'i 'utunu Tumuhw, 'o' huliitun tst,	Hulitun tst tu qa'. Water is life.	'i' Mukw'stem 'u Work together for well-being of the
Mukw' stem 'i 'utunu Tumuhw 'o' slhiilhukw'tul'.	Stsielh stum tu Sqwutsun'a'lh sh-saay 'i' tu	Watershed from generati
Everything on this Earth is what sustains us; everything on this Earth is connected together.	sniw's kwo 'e' 'luhwutss. Cowichan rights and laws are respected.	



vute'kw . thing in o balance. al to' Muk umuhw

v'o' ya



## **Breakout Discussions**

- 1. How is your community currently addressing the impacts of drought, wildfires, or floods?
- 2. What local opportunities do you see for improving watershed management and governance to help or mitigate water challenges in your region?
- 3. What provincial actions or policy changes are needed to support your community to enhance watershed planning, management and climate resilience efforts?



## Water Boards Potential in BC - Towards Better Governance

UBCM Workshop By Oliver M Brandes (UVIC- POLIS)

The public/communities intuitively understands that protecting water and watersheds has something to do with...

- $\odot$  Expertise / Science + Traditional Knowledge
- $\circ$  Rules / Enforcement
- Communities and Local Control (including Planning)







### Watershed Governance

Etymology: circa… 2005

 A helpfully open-ended concept, by nature ambitious, with space for communities to define in their own ways

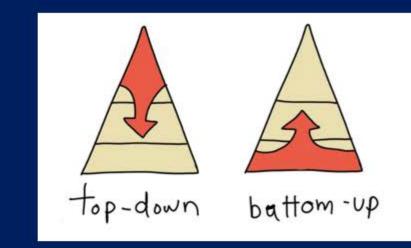
#### 2. Generally ... decision making that is:

- Place-based- aligned w ecological boundaries
- locally adapted
- based on co-governance
- informed by local capacity and expertise

**Keywords:** co-governance, local control, whole of watershed, form-follows-function

- it's an evolution

Sr. gov enabling function functioning legal framework, bringing policy tools, resources, rules



Local leadership and capacity for co-governance



#### FORM follows FUNCTION

 ✓ BUT structure and context matter – snowflake vs template?





## Winning on Water with Watershed Boards

- **FROM:** division/conflict over water 01 TO: collaborative solutions & social cohesion **FROM:** reacting to a cycle of crises (instability) 02 **TO:** government has a plan to keep BC safe & get ahead of crisis **FROM:** people feeling despair (overwhelmed by threats) **TO:** local watershed projects across BC that collectively 03 demonstrate a story of 'hope' for the future Hub for Local Economic Development Strengthen community defences: Drought, Fire and Floods (reduce costs
  - Boards ensure a good use of resources

#### 9 Winning Conditions

Understanding and creating the conditions for the shift towards watershed governance.

1.Governance enabling powers in legislation (or agreements)

- 2. Co-governance
- 3. Local government partnerships
- 4. Sustainable long-term funding
- 5. Functioning legal framework
- 6. Data/monitoring/knowledge
- 7. Independent oversight
- 8. Attention to cumulative impacts

9. Peer-to-peer learning & capacitybuilding



Oliver M. Brandes Jon O'Riordan

### A Blueprint for Watershed Governance in British Columbia

## **Watershed Board Activities**

\*\*Subject to co-governance and UNDRIP principles (DRIPA alignment,

Primary Activities	Additional possible shared powers	
Visioning & Planning -Flood and drought planning -Watershed planning	Water Allocations/Reallocations -eFlows protection and thresholds	
State of the Watershed Reporting -information and watershed health assessments (community based monitoring) -increase h2o IQ -community based monitoring	Setting Environmental Water Quality Requirements -cumulative impacts	<u><b>BIG QUESTIONS</b></u> How to Fund? How to Get Started? Legislated v Policy?
Drinking Water Source Protection -awareness raising -conservation and restoration programs	Green Infrastructure Development Restoration priorities Maintain/sustain Natural Defences	
Formal Input into Land-Use Decision-Making -water-land connections -conflict resolution	Monitoring and Reporting	

A real	A 31 3 7 19 19 19 19 19 19 19 19 19 19 19 19 19
Waters	shed Entities in Other Provinces
Quebec	40 Watershed agencies (OBV)
Ontario	36 Conservation authorities
Manitoba	14 Watershed districts
Alberta	11 Watershed Planning Councils

#### **Key Characteristics**

Watershed V Board	S Community Table
shared authority	no authority
long-term	temporary
legal entity	informal
dedicated staffing	low capacity
base funding	short-term funds

### Water Boards & Current Provincial Commitments of Interest

How Water Boards help drive Watershed Security and Mandates

- Reduce local conflict through planning, and build social cohesion local partners to support modernized land use planning (WLRS delivers on core ufficient)
- 2. Local capacity to help Protect clean water: Deliver effective Watershed Security Strategy & Fund
- 3. Vehicle for Reconciliation and DRIPA: shared decision making; from transactional to long-term agreements and relationshiops
- Build capability for Drought response/resilience Help deliver water storage investments (weir and 80m drought investments) ...Climate adaptation and preparedness
- 5. Targeted restoration/natural defences (salmon mandate) to revitalize and protect wild salmon & protect fish habitat





# **Big Brothers Big Sisters of Canada**

In appreciation of our speakers today and with thanks for your contribution, UBCM has made a donation to the Big Brothers Big Sisters of Canada. Big Brothers Big Sisters of Canada has been championing the health and wellbeing of youth. They provide direct service to children by matching volunteers with youths in quality mentoring relationships to overcome adversities, helping them to do better in life.

