





Presentation by Julie Pisani

Regional District of Nanaimo

Drinking Water and Watershed Protection

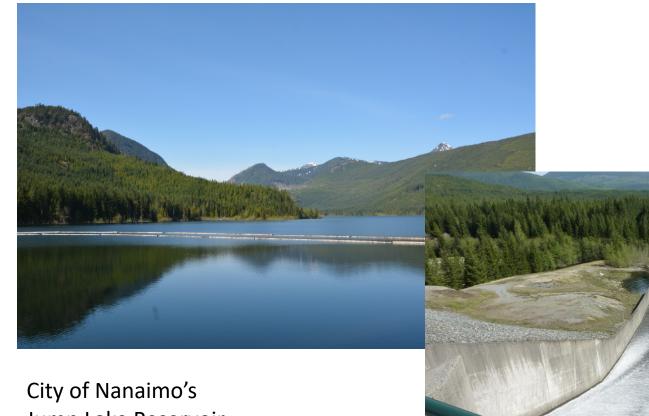
Program Coordinator

Drinking Water and Watershed Protection





Water Sources: surface water



City of Nanaimo's
Jump Lake Reservoir
Stores 18 billion litres



Jump Creek



Water Supply: Surface Water





Dam & City of Nanaimo Water Intake



CoN Water Treatment Plant

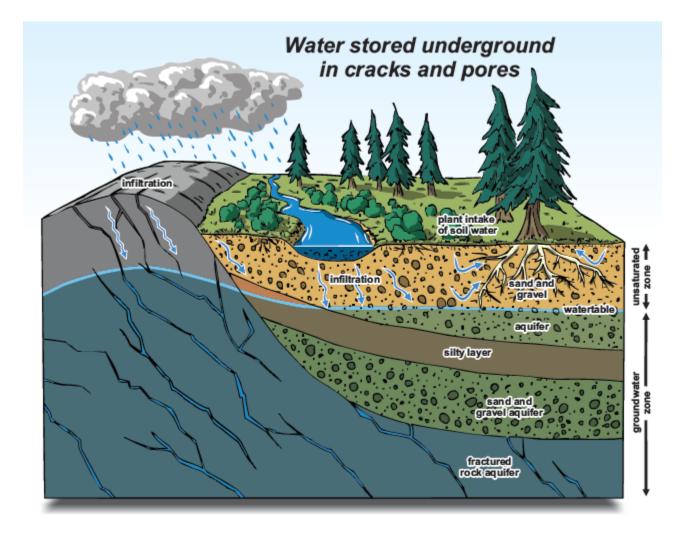


Water Sources: groundwater aquifers

North Cedar

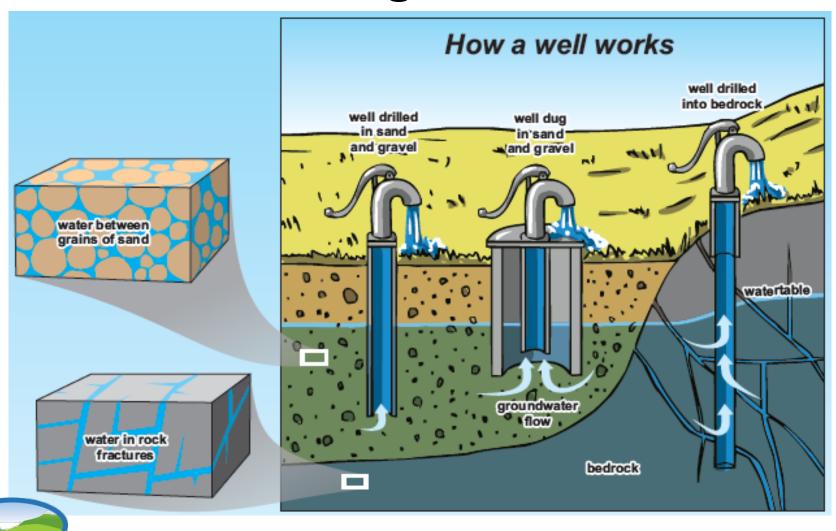
Lantzville

All Rural Areas

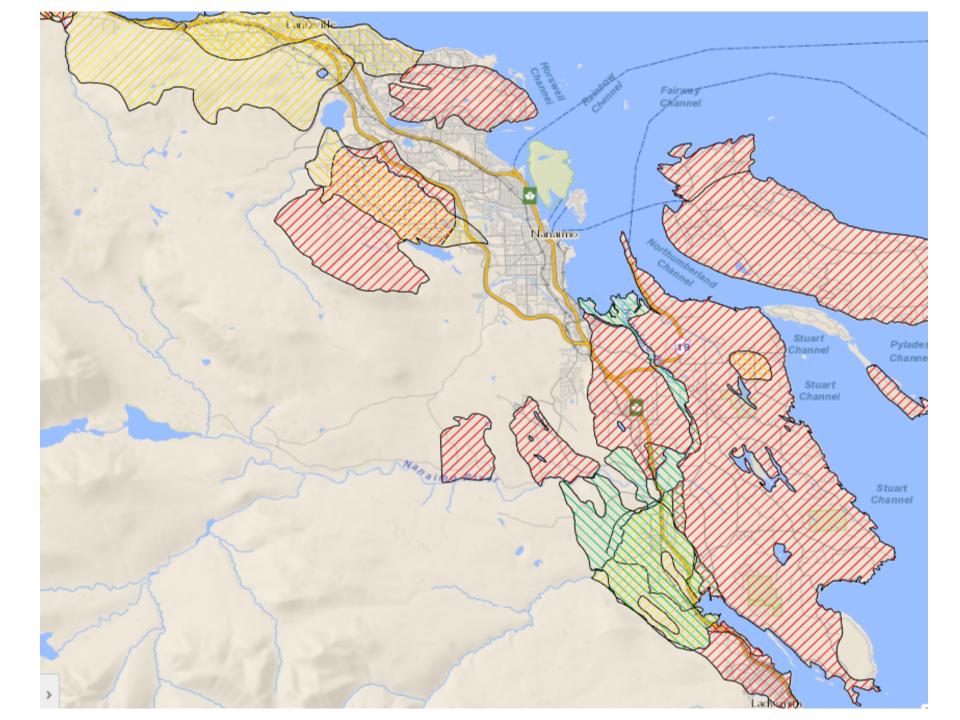




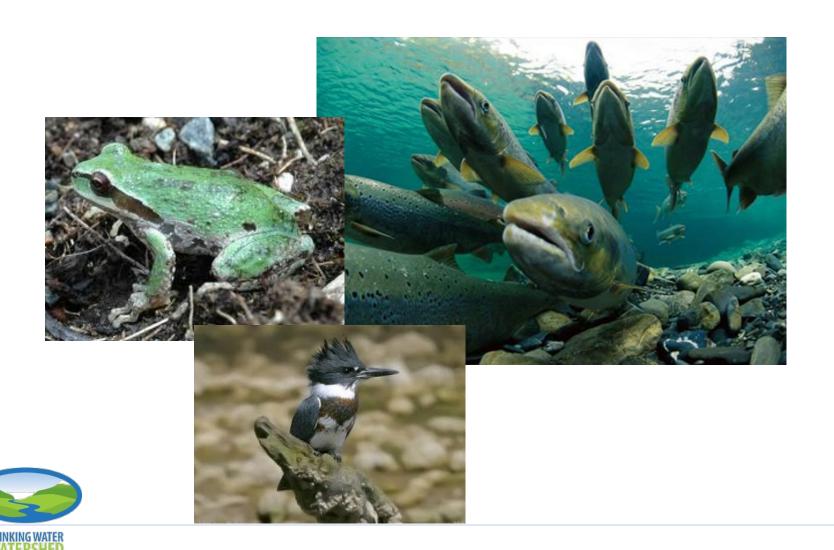
Water Sources: groundwater wells







Ecosystem Needs



Spiritual, Cultural Values



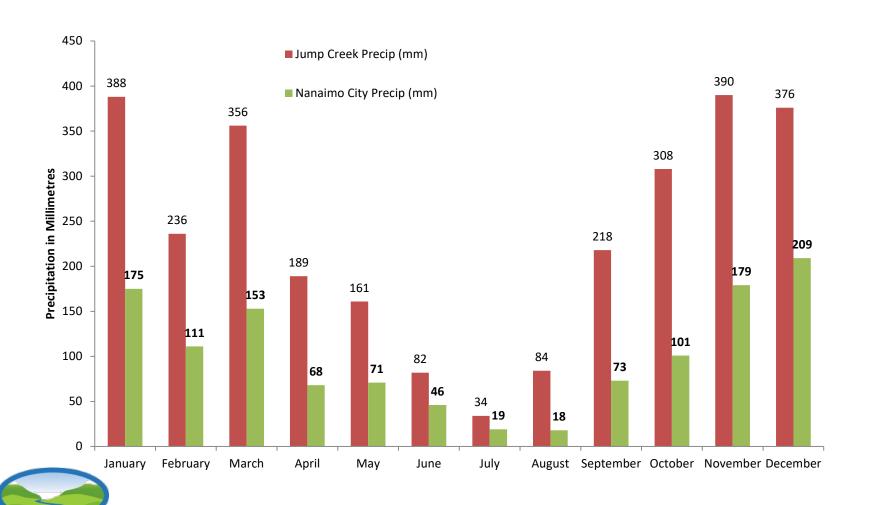


Understanding More About Our Water Helps Us Plan for the Future



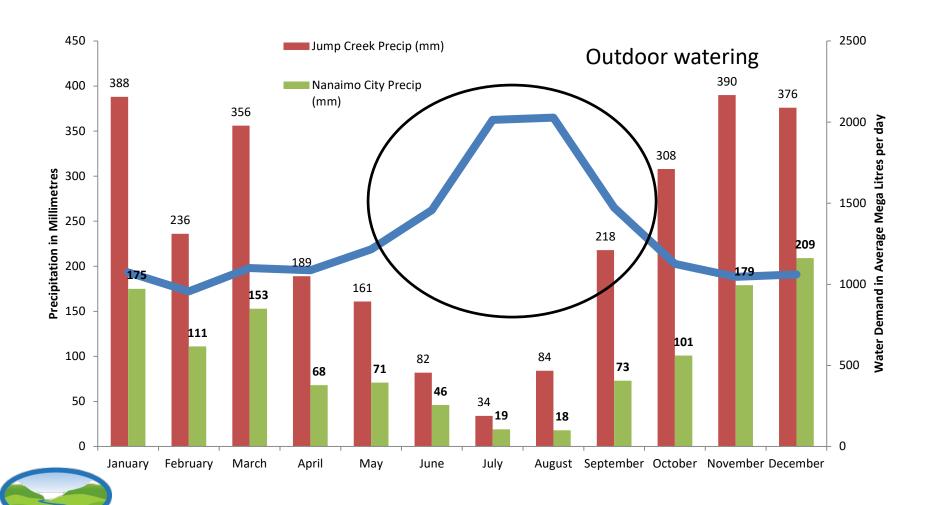


Nanaimo Rainfall





Nanaimo Rainfall + Demand

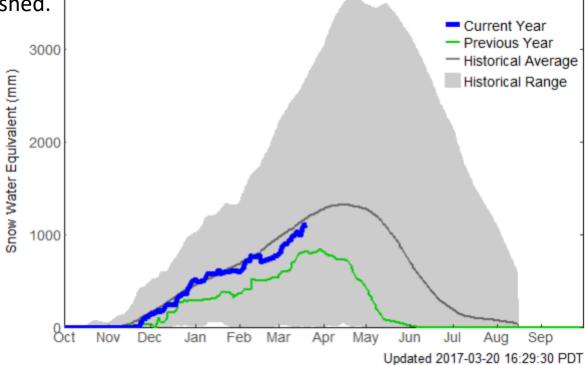




Snowpack

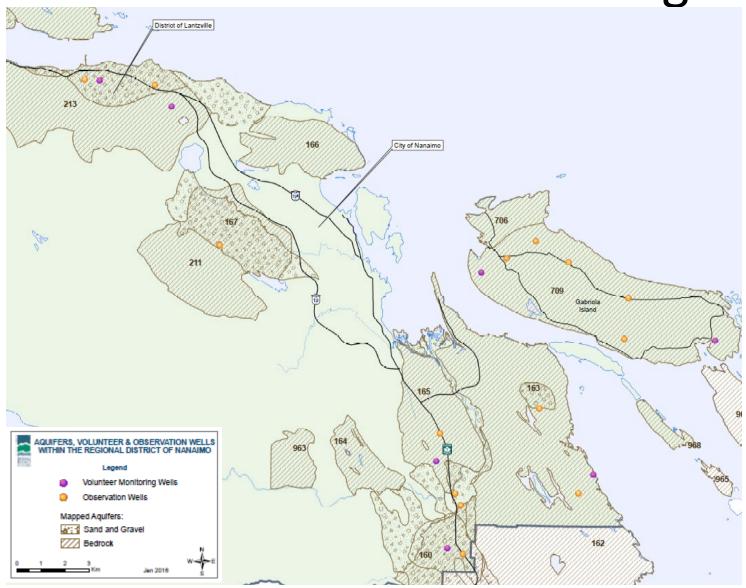


This is Jump Creek Snow Station in the upper Nanaimo River Watershed.



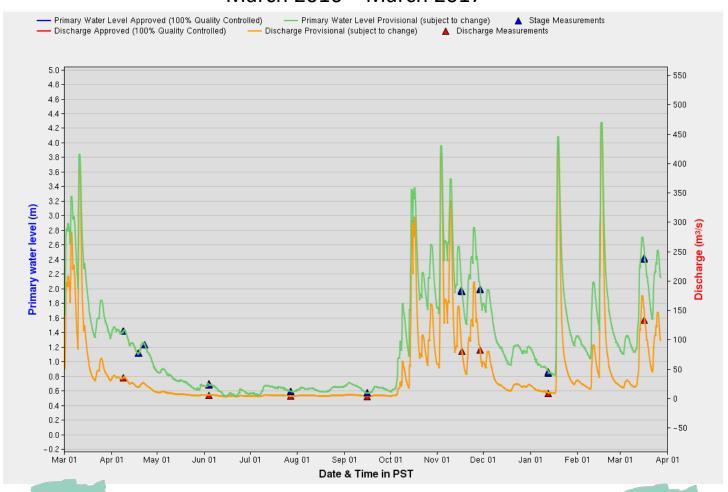


Groundwater Monitoring

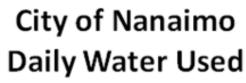


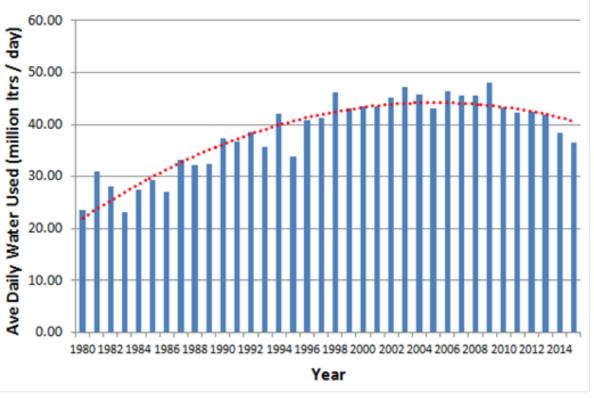
Stream Levels & Flows: Nanaimo River

March 2016 – March 2017



Water Demand Over Time

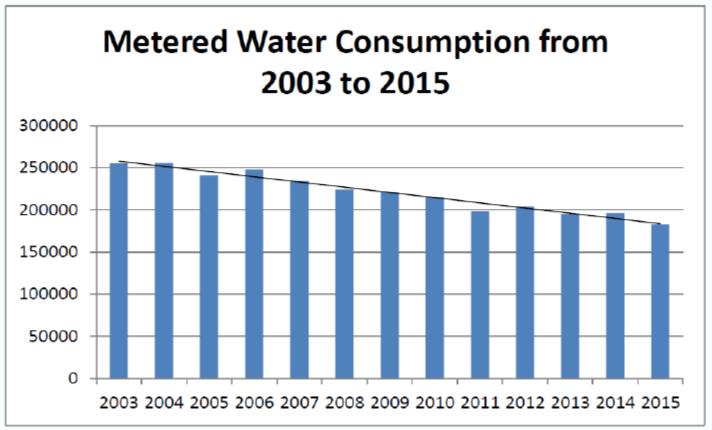






Water Demand Over Time

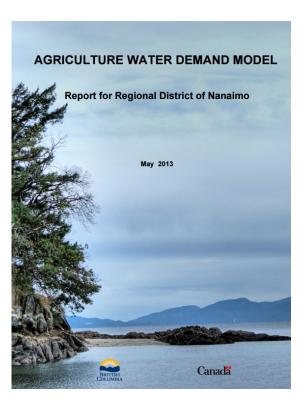
District of Lantzville





Water Demand

 Not just for our household use, but to grow our local food!

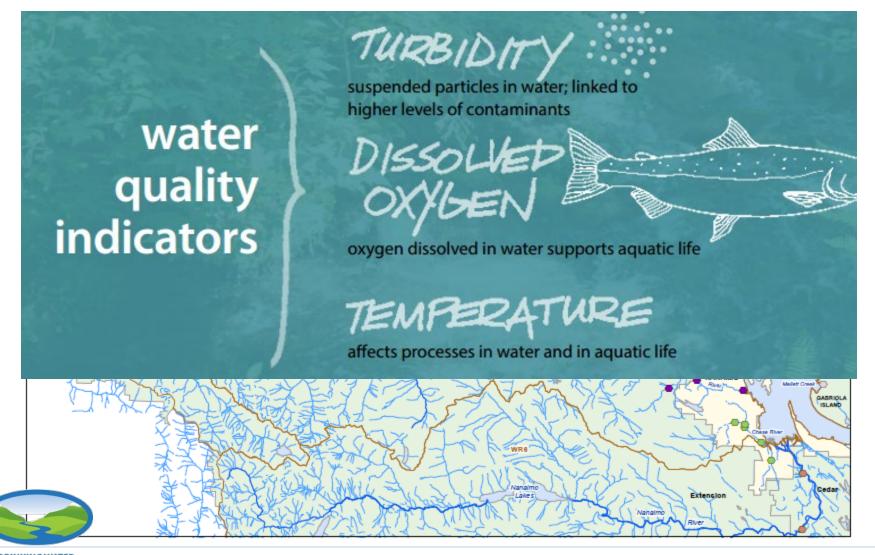








Water Quality Monitoring





Watershed Stressors

Management Challenges

Environmental Stressors

Climate Change

Growing Population

Land Use Change









Limited Resources



Ongoing Efforts for Water Sustainability



Improve efficiency





Collaborative water planning

Learn more about the resource





Shared Responsibility



- Residents
- Government
- First Nations
- Industry
- Commercial
- Rural
- Urban





What does a cultural shift to a water smart region look like?



Reconsider landscaping priorities.

- choose drought tolerant plants
- simply let the grass go golden in the summer



Value and steward the ecology of our creeks, rivers, lakes and wetlands.

- keep streambanks vegetated
- · refrain from chemical use on our landscapes
- · keep run-off on-site where possible



Innovate and take pride in water efficiency measures.

- · rainwater collection cisterns
- · greywater re-use technology
- soil moisture sensors and drip irrigation
- efficient appliances



Establish a deep rooted understanding about the connection between our land practices and the health of our water.

- · neighbour to neighbour outreach
- · dialogue in the public forum
- · education for children and adults



Intrinsic Value of Water

- Abundant yet rare
- Irreplaceable
- Priceless yet valuable
- Offers an amazing opportunity for cooperation





CELEBRATE WATER!



THANK YOU! Questions? jpisani@rdn.bc.ca

www.dwwp.ca www.teamwatersmart.ca