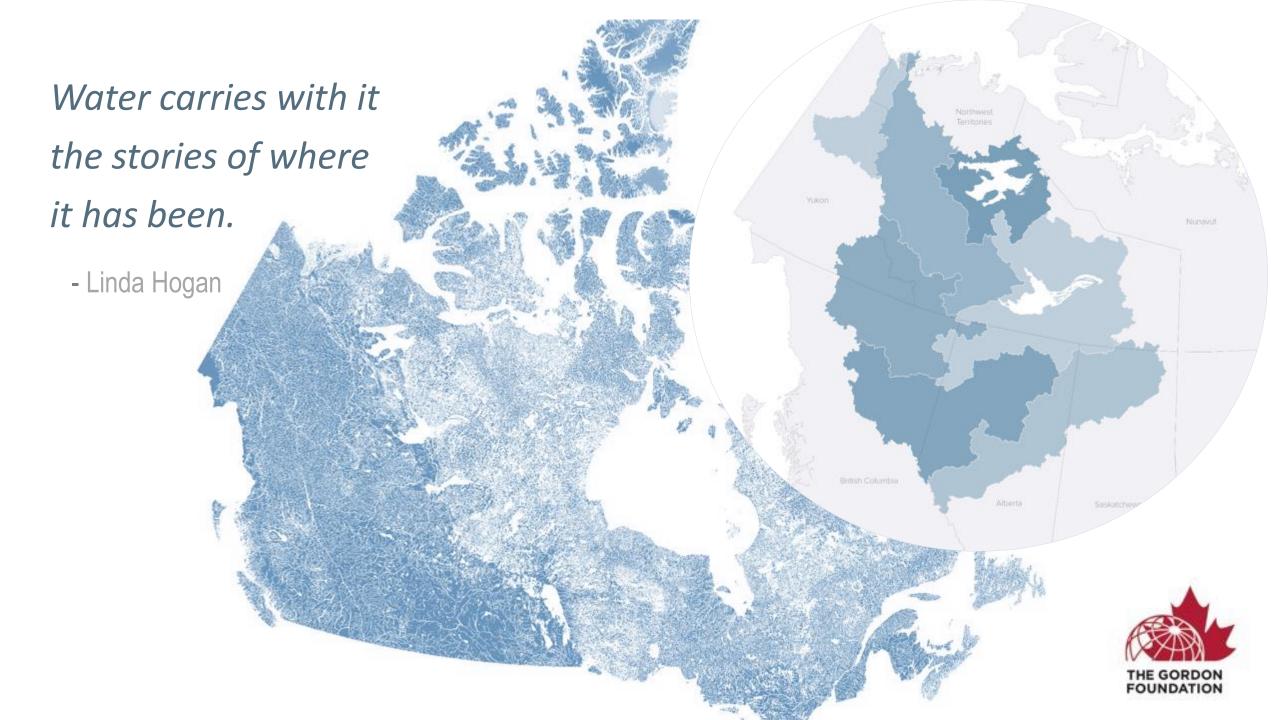
An open access hub for sharing water data





the second second second second second

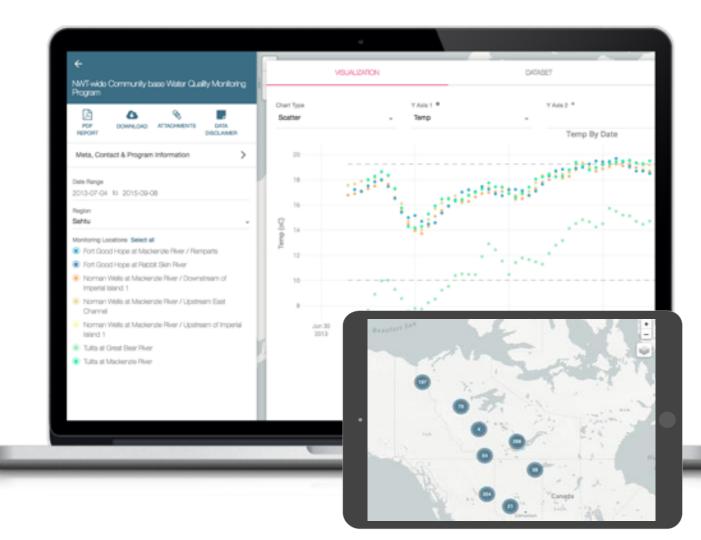
Mackenzie DataStream

An open access hub for sharing water data.

Our mission is to promote knowledge sharing and advance collaborative water stewardship.

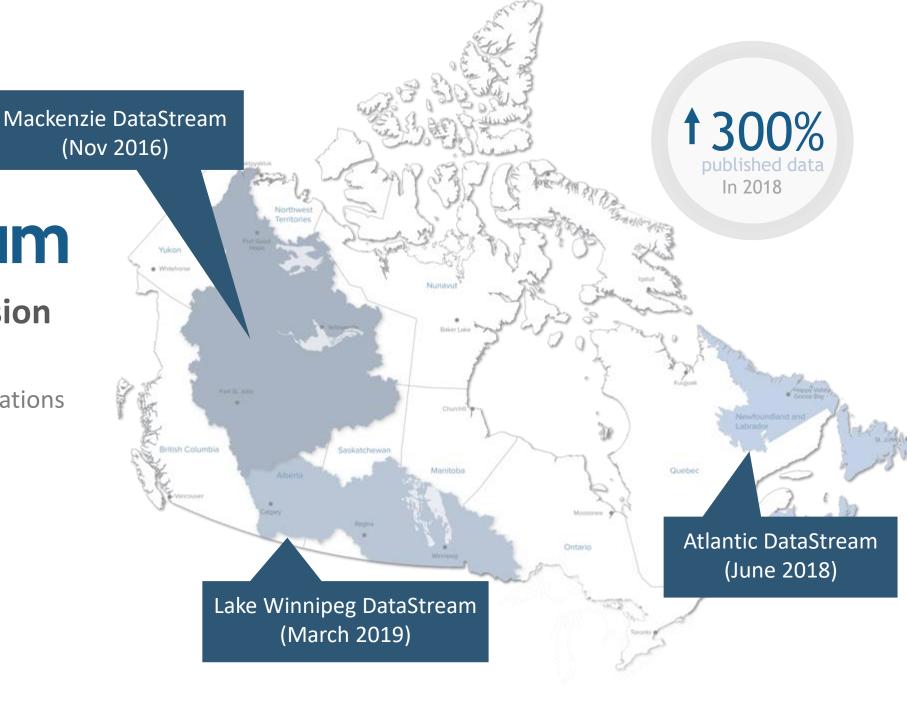
EXPLORE DATA

- Open access site for water quality data
- Free and open for anyone to use
- User friendly visualization tools
- Puts programs and data on the map!



Growth and Expansion

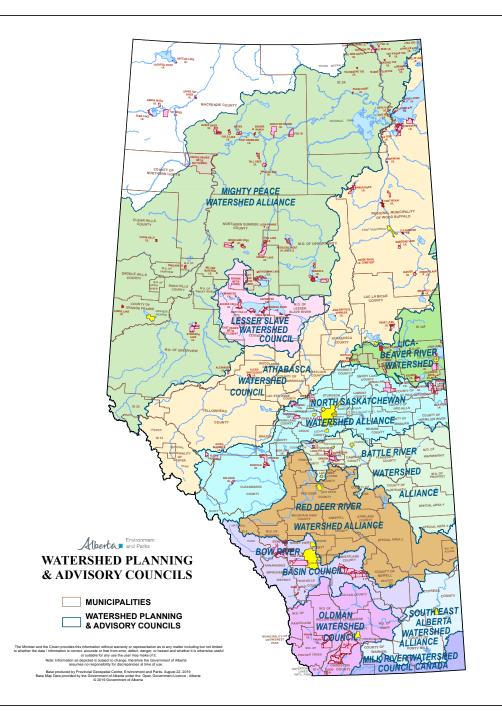
- > 2 million unique observations
- > 3600 monitoring sites
- 70 monitoring groups





Data Challenges

- Sharing, finding and accessing water data
- Rivers and lakes don't stop at provincial boundaries but datasets often do
- Bad data can happen to good
 people



Data can be messy....



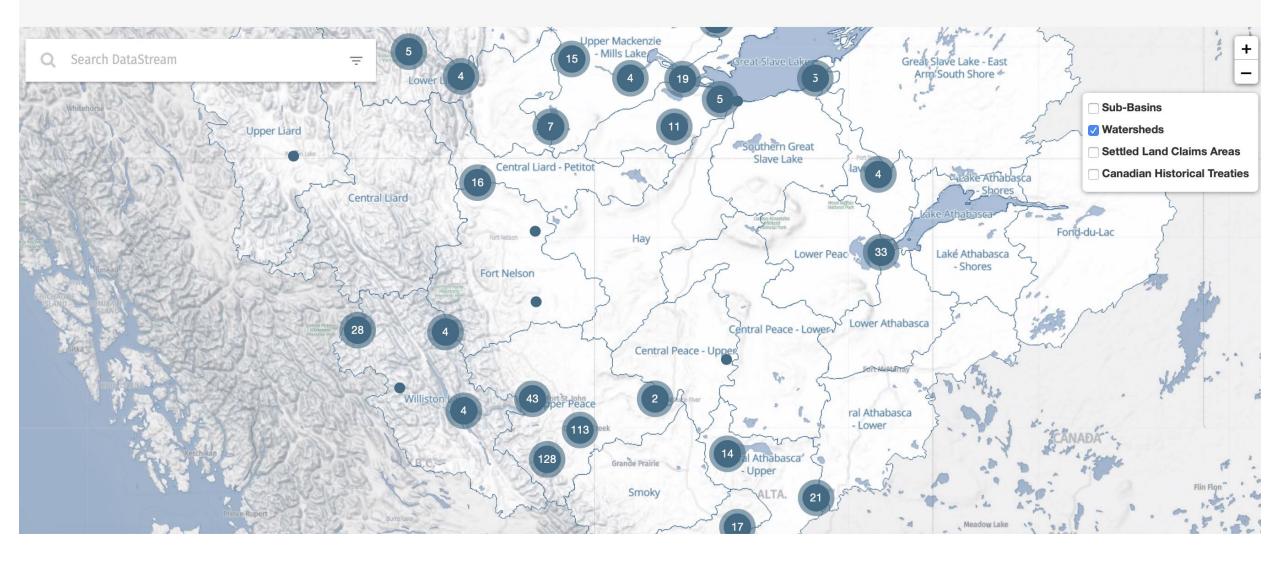
Stored in many places, in many different ways...



Water Data News

About - Resources

Contact Login



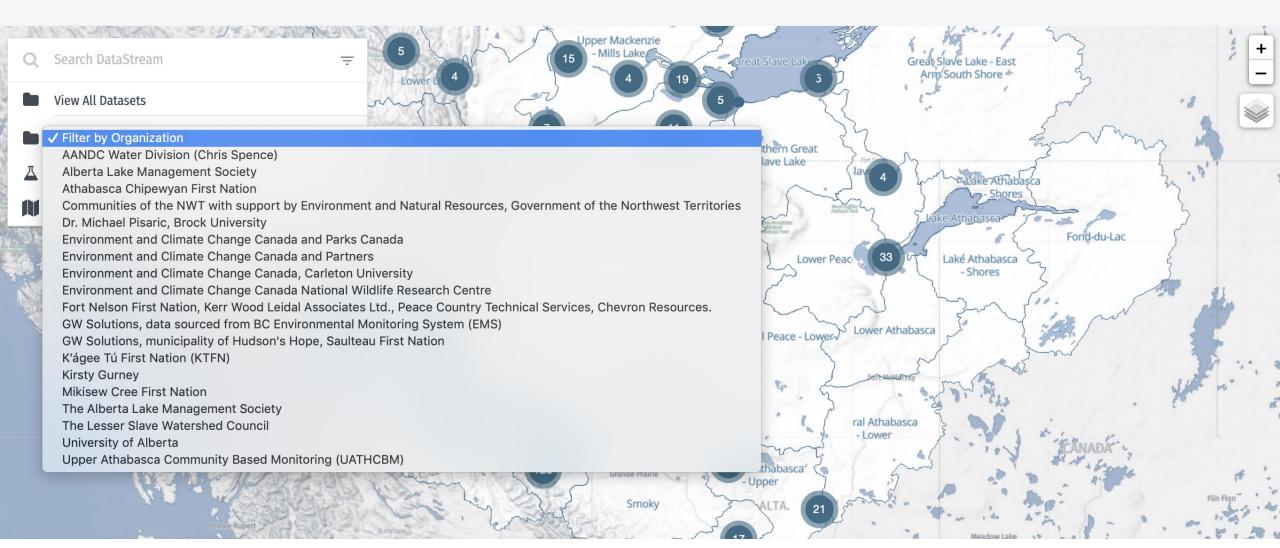
Water Data

News About-

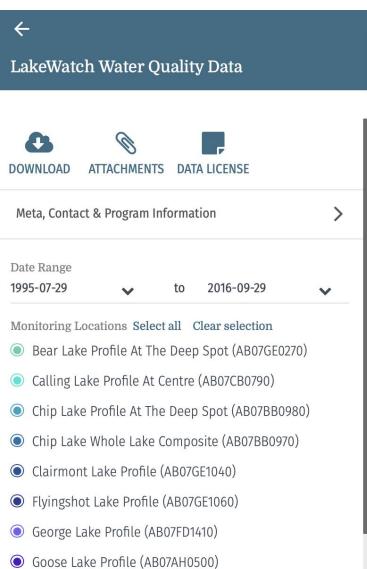
Resources

Login

Contact



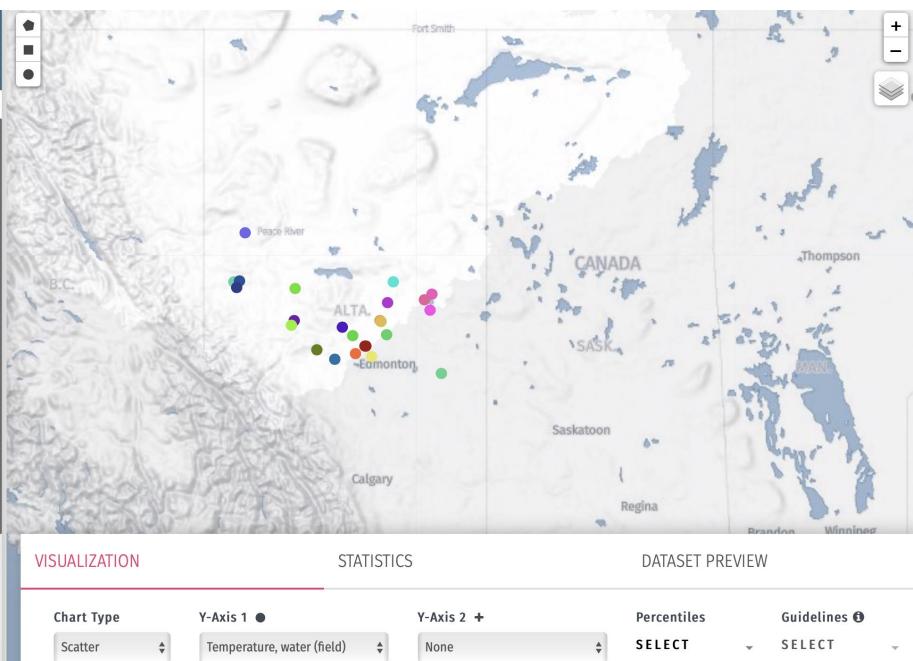




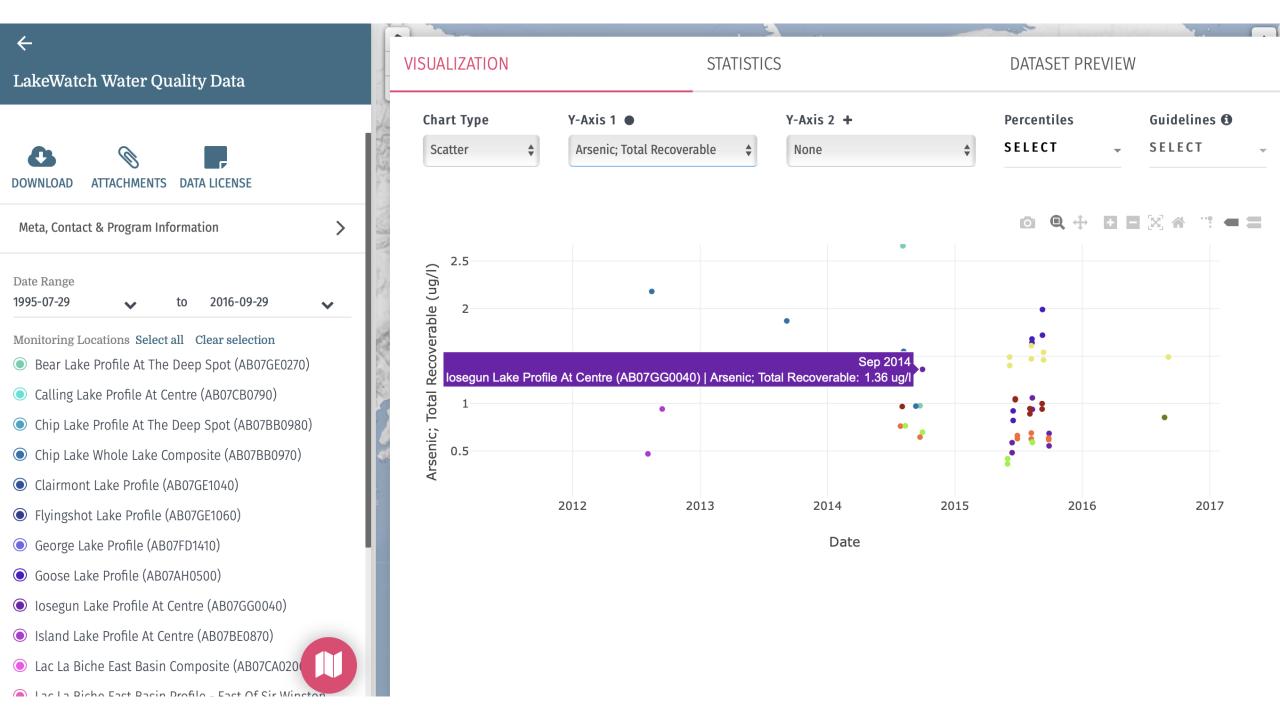
- losegun Lake Profile At Centre (AB07GG0040)

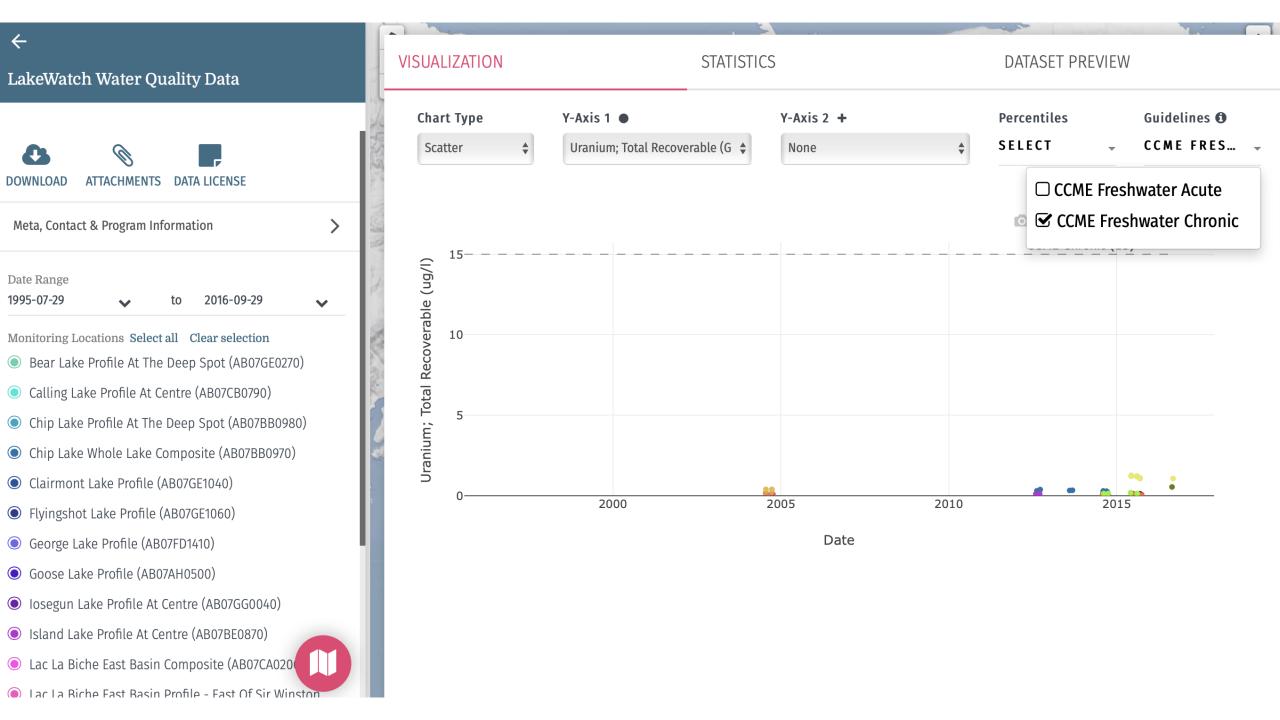
• Island Lake Profile At Centre (AB07BE0870)

Lac La Biche East Basin Composite (AB07CA020)

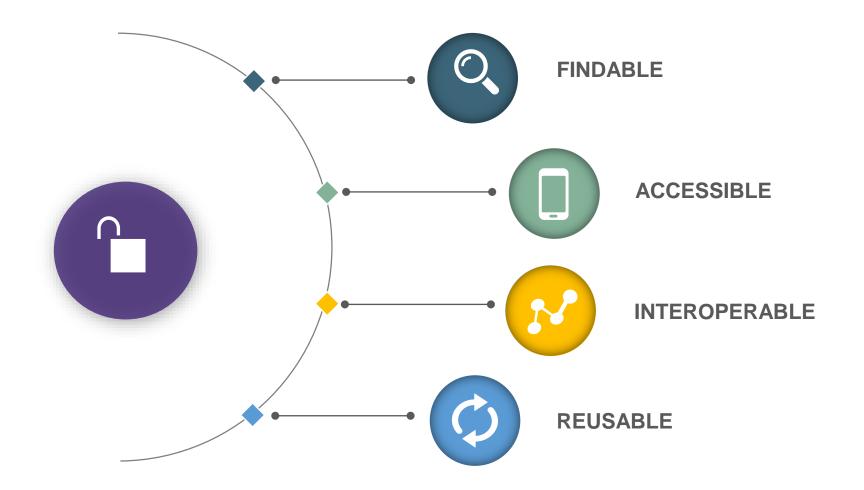


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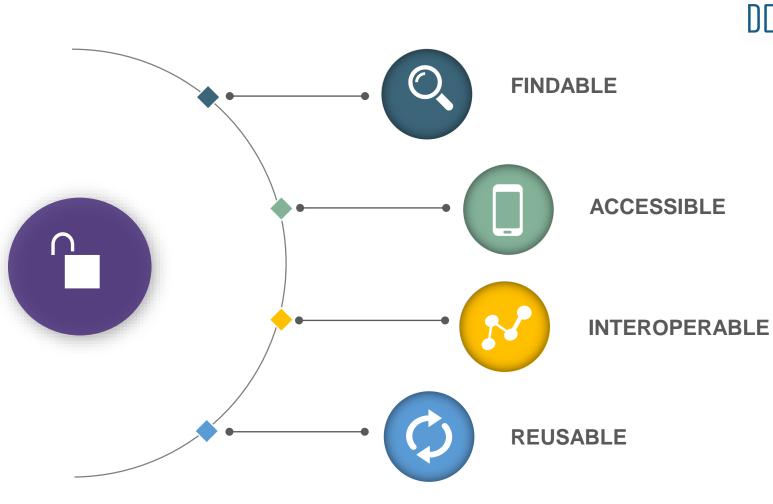
← LakeWatch Water Quality D	Download Dataset			F PREVIEW	
Lanonatori nator Quanty L	Licence, Disclaimer, and Terms	of Use		s Gu	idelines ()
	Step 1: Select a version		Step 2: Review Data License, Disclaimer and Terms of Use	→ SE	LECT -
DOWNLOAD ATTACHMENTS DATA LI	v1.0 (Current) - Sep 17, 2019	*	This dataset is made available under the Open Data Commons		
Meta, Contact & Program Information	View Changelog De	etails 🗸	Attribution License (ODC-By): https://opendatacommons.org/licenses/by/1.0/		* * • = =
Date Range 1995-07-29 v to 20 Monitoring Locations Select all Clea Bear Lake Profile At The Deep Sp Calling Lake Profile At Centre (AB Chip Lake Profile At The Deep Sp Chip Lake Whole Lake Composite Clairmont Lake Profile (AB07GE10	Blockchain Verification Successful Blockchain technology improves data security, tracking and transparency on DataStream. Want to learn even more? Click Here	etails ∨	By accessing this data you agree to DataStream's Terms of Use. I agree Step 3: Select Intended Data Usage Select intended data usage to begin download Select One DOWNLOAD		
Flyingshot Lake Profile (AB07GE10	060)			2016	2017
• George Lake Profile (AB07FD1410)			Date		
• Goose Lake Profile (AB07AH0500)					
● Iosegun Lake Profile At Centre (Af	B07GG0040)				
Island Lake Profile At Centre (ARO	17RF0870)				



DataStream is designed to support the *'FAIR' principles of open data*

Mark D. Wilkinson et al. (2016). Nature.





DOI's

LSWC tributary monitoring program



Dataset Information

4

Dataset Name LSWC tributary monitoring program

Data Collection Organization The Lesser Slave Watershed Council

Data Steward Email info@lswc.ca

Start Date April 25, 2017

End Date May 23, 2019

DOI 10.25976/vmet-ct64

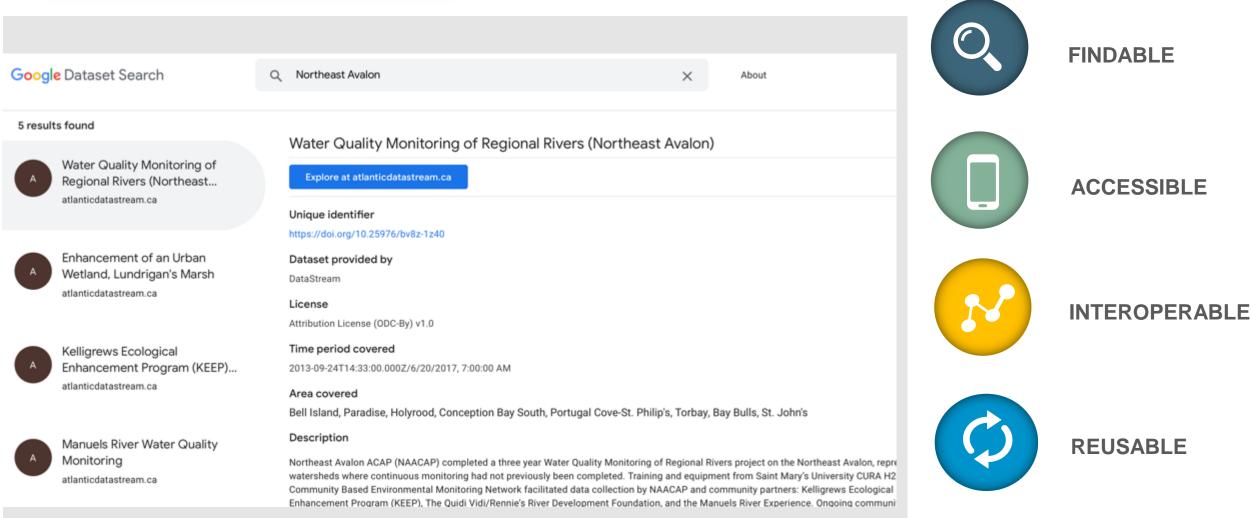
Abstract 🗸

The Lesser Slave Watershed Council Tributary Monitori Program collects water quality data for the five major tributaries of Lesser Slave Lake at upstream, mid and

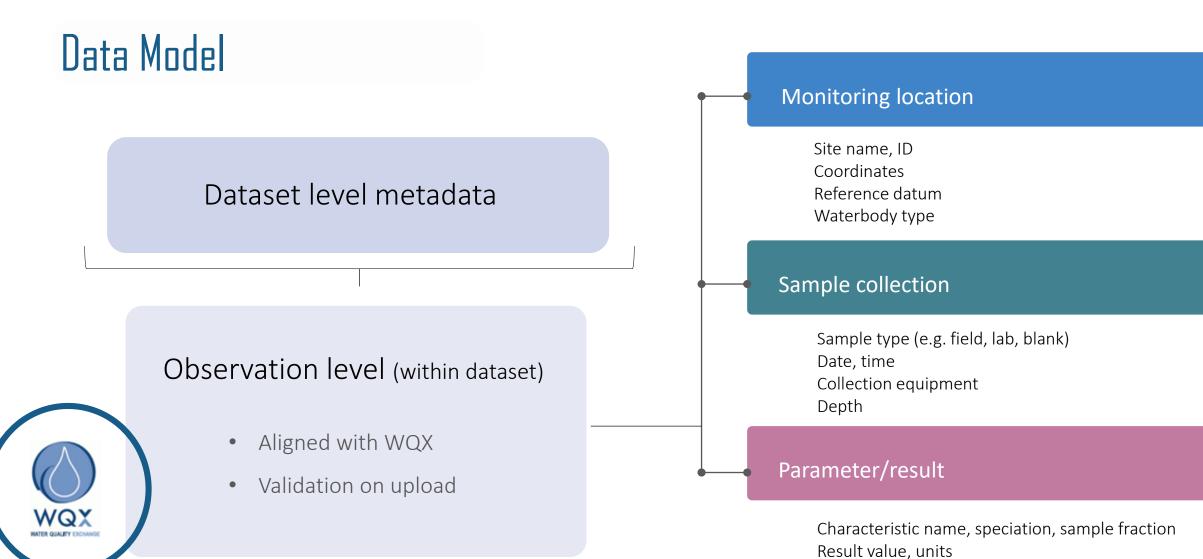


DataStream

Google Dataset Search



DataStream



Analysis method, date, time

Detection limits





• Open data licenses

- Blockchain verification
- API development
- Ongoing improvements

DataStream



Community

Communities are connected to their waters and best-placed to see changes as they happen.



Policy & Action

Knowledge can be translated into action to protect the health of watersheds on which we all depend.

mad
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DataStream

DataStream provides a place to store, share, and compare water monitoring data across watersehds.

Open Data To Knowledge

Open data advances scientific knowledge, supports collaboration, and fuels innovation.

Where DataStream fits in

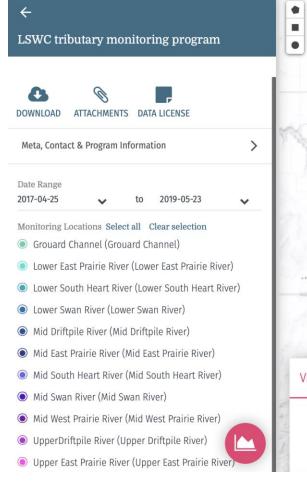
WE DO

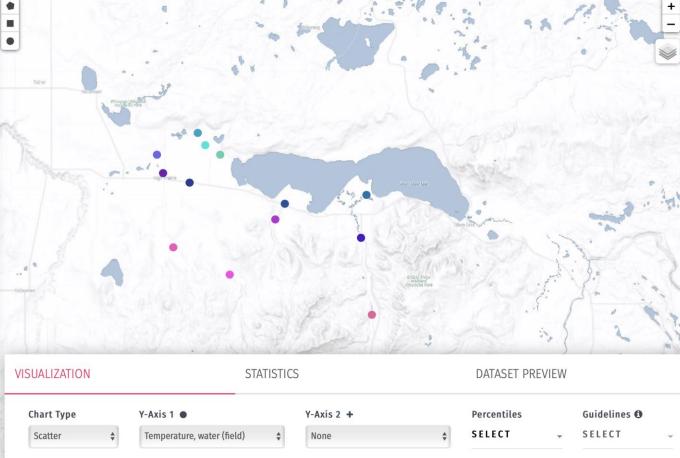
- Provide a place to publish data openly
- Provide support to format and upload data
- Schema validation checks

WE DO NOT

- Collect, fund or own any water monitoring data
- Analyze data and interpret results
- Fully QA/QC data

Watershed Planning and Advisory Councils





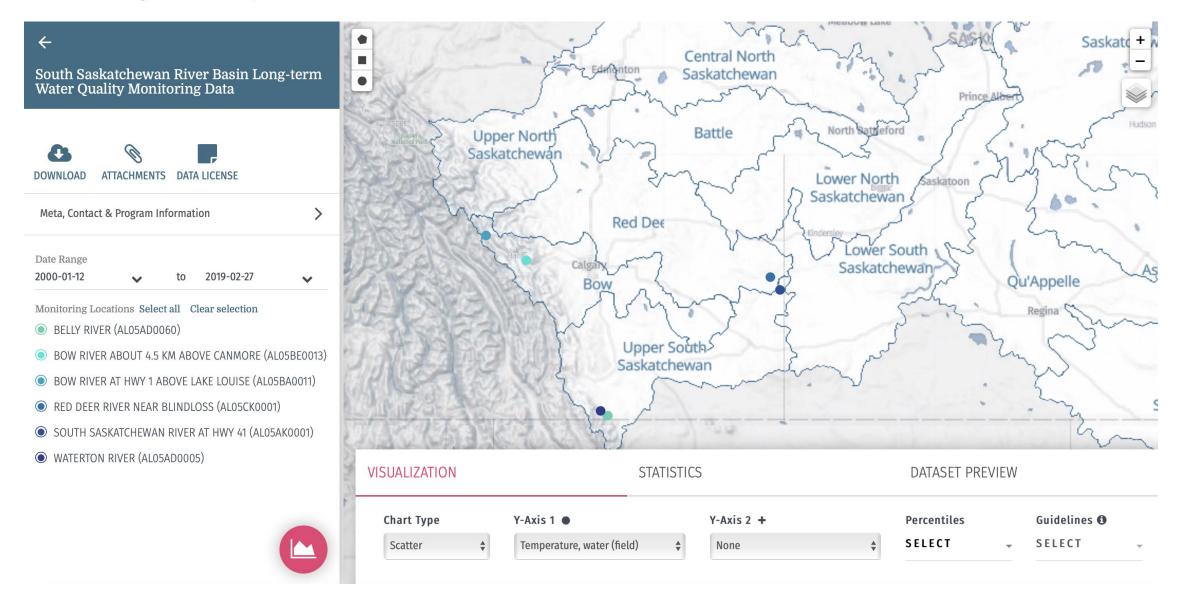




Environment and Climate Change Canada

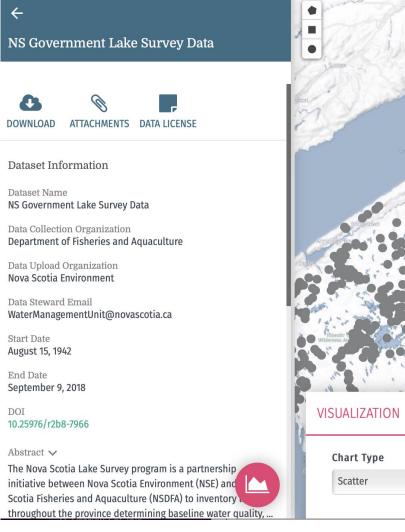
National Long-term Water Quality Monitoring Program

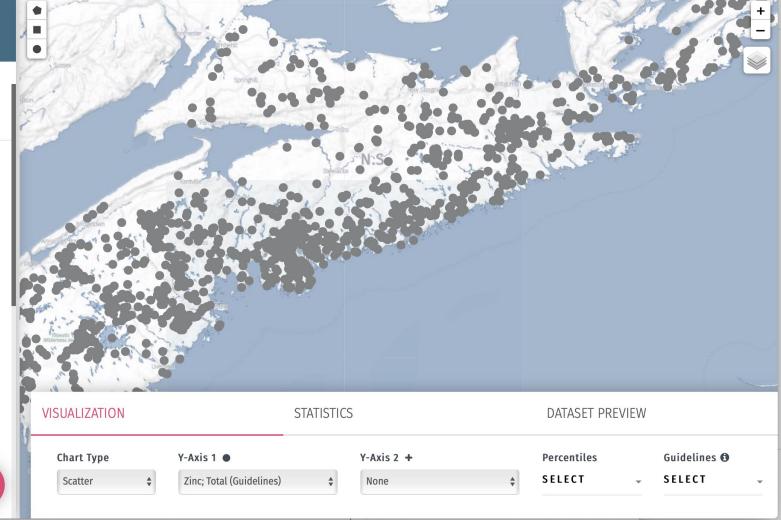
Environnement et Changement climatique Canada



Provincial and Territorial Governments







NWT Cumulative Impacts Monitoring Program





NWT Cumulative Impact Monitoring Program (NWT CIMP)

DataStream Data-thons!



Forest Fires

In addition to permafrost melt and the ensuing high turbidity, forest fires can also effect the levels of metals in the water for years after the fires. One metal that is a key indicator of this is Mercury.

QUESTION 5:

In 2013 and 2014 there were a number of forest fires in the areas surrounding Behchoko. Create a bar graph of the Total Mercury values for the site 'Behchoko at Franks Channel/Upstream of Bridge' and determine in what year the peak mercury value dropped back below the CCME guideline.



Thank you



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@DataStreamH2O

