



# Navigating Conservations Sudbury's Water Data Portal



Foundation

The screenshot displays the 'Water | Data Viewer' interface. At the top, there are navigation tabs for 'Station Overview', 'Water Quantity', and 'Water Quality'. The 'Station Overview' tab is active, showing a map of the Sudbury region with numerous blue dots representing monitoring stations. The map includes labels for 'Wanapitei River', 'Vermilion River', and 'Spanish River'. On the left side, there is a 'Filter' panel with the following information: '66 / 66 Stations', a 'Clear filter' button, and three dropdown menus for 'Station Type', 'Site Name', and 'Parameter Type Longname', all currently set to 'All'. The bottom of the interface contains copyright information: '© 2022 KISTERS AG | All rights reserved' and 'All timestamps in time zone: America/Toronto'.

When you first access the Data Portal, you will be in **Map View**

**FAQ:** Disclaimers and additional information on data sources and resources

### Legend

Overlays: allows the user to turn on/off the labels (station names), stations (points) and subwatershed boundaries

Overlays	
<input type="checkbox"/>	Labels
<input checked="" type="checkbox"/>	Stations
<input checked="" type="checkbox"/>	Subwatershed Boundaries

  

Base Layer	
<input type="radio"/>	Street Map
<input type="radio"/>	Physical Map
<input type="radio"/>	Ocean Basemap
<input type="radio"/>	Imagery 2D
<input type="radio"/>	NatGeo Map
<input checked="" type="radio"/>	Topographic Map

Base Layer: allows the user to change the background map

The **Filter** pane, allows you to filter which sites are visible on the map (or table) depending on what you are looking for. You can search by:

- 1) **Station Type:** the type of environmental data collected at that site (ex: precipitation, water quality, snow, etc.)
- 2) **Site Name:** The different projects (ex: volunteer data programs like CoCoRahS, vs. Conservation Sudbury data).
- 3) **Parameter Type:** Identifies sites where a specific parameter is monitored (ex: total phosphorus, snow depth, rainfall, etc.)

If you select **Table**, all of the sites will be displayed in tabular form

The screenshot shows the 'Water | Data Viewer' interface. At the top, there are navigation tabs for 'Station Overview', 'Water Quantity', and 'FAQs'. Below this, there are view options: 'Map', 'Table' (highlighted with a green box), and 'Time Series'. A 'Filter' pane is open on the left, showing '66 / 66 Stations' and dropdown menus for 'Station Type', 'Site Name', and 'Parameter Type Longname'. The main area displays a table with columns: Station Name, Station Number, Site Name, Site Number, and Station Type. The table lists 18 stations with their respective details.

Station Name	Station Number	Site Name	Site Number	Station Type
<input type="checkbox"/> Azilda - Whitewater Lake Park	W456-1	NDCA	800	Ground water, Water quality
<input type="checkbox"/> Bancroft_Ramsey Lake	W455-1	NDCA	800	Ground water, Water quality
<input type="checkbox"/> Capreol 11.0 NE - NDCA	CAN-ON-752	CoCoRaHS	076	Climate station
<input type="checkbox"/> Capreol Park	NDCA_02	NDCA	800	Snowcourse
<input type="checkbox"/> Carr's Landing 3.8 NNE - NDCA	CAN-ON-778	CoCoRaHS	076	Climate station
<input type="checkbox"/> Centennial Park	Sudbury_5	NDCA	800	Surface water, Climate station, Subwatershe...
<input type="checkbox"/> Chelmsford 0.3 WNW - NDCA	CAN-ON-783	CoCoRaHS	076	Climate station
<input type="checkbox"/> Chelmsford 0.6 WNW - NDCA	CAN-ON-867	CoCoRaHS	076	Climate station
<input type="checkbox"/> Coniston Creek 02DB007	Sudbury_8	NDCA	800	Surface water
<input type="checkbox"/> East Wanapitei	3013401802	NDCA	800	Water quality
<input type="checkbox"/> Emery Creek	3013400302	NDCA	800	Water quality
<input type="checkbox"/> Frobisher Creek at Greenwood Dr	ND_GAUGE_06	NDCA	800	Surface water
<input type="checkbox"/> Garson	NDCA_03	NDCA	800	Snowcourse
<input type="checkbox"/> Garson 2.9 NNE - NDCA	CAN-ON-711	CoCoRaHS	076	Climate station
<input type="checkbox"/> Hanmer	W454-1	NDCA	800	Ground water, Water quality
<input type="checkbox"/> Hanmer 2.3 NW - NDCA	CAN-ON-834	CoCoRaHS	076	Climate station
<input type="checkbox"/> Junction Creek at Lasalle Blvd	ND_GAUGE_02	NDCA	800	Surface water

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Like in map view, the **Filter** pane, allows you to filter which sites are visible on the table depending on what you are looking for.

Data can also be searched using the headings at the top of the Data Viewer, divided into 2 main categories: **Water Quantity** and **Water Quality**

Station Number	Site Name	Site Number
456-1	NDCA	800
455-1	NDCA	800
AN-ON-752	CoCoRaHS	076
DCA_02	NDCA	800
AN-ON-778	CoCoRaHS	076
udbury_5	NDCA	800
Chelmsford 0.3 WNW - NDC		
CAN-ON-783		

### Water Quantity

- **Hourly Precipitation** – rainfall accumulation, over 60 minutes
- **Daily Precipitation** - rainfall accumulation, over 24 hours
- **CoCoRaHS Daily Precipitation** – volunteer rainfall reporting program, over 24 hours
- **Stage (HG):** Water depth, recorded every 60 minutes
- **Manual Stage:** Volunteer water level reporting program submissions (not real-time; updated monthly)
- **Snow:** Twice monthly records of snow depth (SD) and snow-water-equivalent (SW) (November 15 through May 15)

### Water Quality

- **PWQMN:** Provincial (Stream) Water Quality Monitoring Network
  - Long-term monitoring program of surface water, in partnership with the Ministry of Environment, Conservation and Parks.
  - Surface water quality samples collected monthly
- **PGMN:** Provincial Groundwater Monitoring Network
  - Long-term monitoring program of groundwater aquifers, in partnership with the Ministry of Environment, Conservation and Parks Surface
  - Groundwater quality samples, collected annually

For a guide on how to access and visualize the data within the portal, see our companion document [‘Viewing and Downloading Data’](#)

## Acronyms

**CoCoRaHS** – ‘Community Collaborative Rain, Hail and Snow’ Network

**HG** – Stage – water level reading, in meters

**PP** – Precipitation – amount of rainfall, in millimeters

**SD** – Snow depth, in centimeters

**SW** – Snow Water Equivalent, in millimeters

**PWQMN** – Provincial (Stream) Water Quality Monitoring Network

**PGMN** – Provincial Groundwater Monitoring Network