



Drinking Water Results Interpretation – Charles Yohin School (Nahanni Butte) 9 April 2026)

This document is developed to provide interpretation information for the Charles Yohin School (Nahanni Butte) drinking water results.

Types of samples collected:

- **Tier 1 Sample:** Collected after 8 hours of stagnation (overnight).
 - What this shows: These results represent lead that may leach into the water from plumbing when water sits unused overnight.
- **Post Flush Sample:** Collected after flushing the fixture for 5 minutes, without any stagnation.
 - What this shows: These results represent any nearby or fixture-specific lead source that may leach into the water. These samples help identify the location of the issue in the plumbing system.
- **Tier 2 Sample:** Collected after flushing the tap for 5 minutes, followed by 30 minutes of stagnation.
 - What this shows: These results reflect typical water use during the day and represent lead exposure under regular conditions. This may vary in high usage areas.
 - Note: Tier 2.1 and Tier 2.2 samples were two 300 millilitre samples collected back-to-back and analyzed separately to support locating the source of lead. E.g., fixture vs pipes or joints.
 - CPHO consideration focuses on these results to assess human health risk.

Type of fixtures tested:

All drinking water fountains and classroom sinks are tested. A few additional samples were collected for other baseline analysis.

Who analyzed the results:

Water samples were tested by Taiga Environmental Laboratory.

The Office of the Chief Public Health Officer reviewed and interpreted the results for public health significance.

Summary of lead testing results:

- At the Charles Yohin School (Nahanni Butte), 0 of the 4 fixtures tested above Health Canada Guidelines for Lead and Copper.
- Health Canada's maximum acceptable concentration (MAC) for lead is 5 µg/L and Copper is 2000 µg/L.
- The World Health Organization has established a guideline value of 10 micrograms per litre (µg/L) for lead in drinking water.

Detailed results:

Sample Type	Room Identification	First Draw	Flush Baseline	Tier 2.1	Tier 2.2	Public Health Order Status
882 - 001 - SK	Kitchen Sink	1.2	0.2	0.7	0.4	No Action
882 - 002 - SK	Small Sink next to Kitchen Sink	3.7	0.3	0.7	0.4	No Action
882 - 003 - SK	Wash Basin	2.8	0.6	0.6	0.6	No Action
882 - 106 - SK	Sink in Bathroom	0.9	0.2	0.4	0.9	No Action