



Drinking Water Results Interpretation – Colville Lake School (26 Mar 2026)

This document is developed to provide interpretation information for the Colville Lake School, the Modular Classroom, and the Community Gym used in conjunction Colville Lake School, 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.
- **Random Day Time (RDT) Sample:** Collected during the day with no prior flushing.
 - What this shows: These results reflect typical water use during the day and represent lead exposure under regular conditions. This may vary in high or low usage areas.
 - Note: RDT samples were two 300 millilitre samples collected back-to-back and analyzed separately to support screening for lead.

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 Colville Lake School and the Modular Classroom, **2 of the 2 fixtures** tested below Health Canada Guidelines.
- At Community Gym, used in conjunction with Colville Lake School, **1 of the 1 fixtures** tested below Health Canada Guidelines.
- Health Canada's maximum acceptable concentration (MAC) for lead is 5 µg/L. Previously, in 2019, the MAC value was 10 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 for Colville Lake School:

Location ID	Description of Location	Tier 1 (µg/L)	Post-Flush	Tier 2.1 (µg/L)	Tier 2.2 (µg/L)	Public Health Order Status
891-101	Sink in School (Middle School)	4.3	0.9	1.4	2.0	No Action Required

Detailed results for Colville Lake School Modular Classroom:

Location ID	Description of Location	Tier 1 (µg/L)	Post-Flush	Tier 2.1 (µg/L)	Tier 2.2 (µg/L)	Public Health Order Status
1668-001	Sink in Modular Classroom (Primary School)	2.9	0.8	1.1	0.8	No Action Required

Detailed results for Colville Lake Community Gym:

Location ID	Description of Location	RDT 1	RDT 2	Public Health Order Status
GYM-001	Gym Kitchen	0.6	0.4	No Action Required