



Drinking Water Results Interpretation – École St. Patrick High School and the Kimberlite Career and Technical Centre (26 Mar 2026)

This document is developed to provide interpretation information for the École St. Patrick High School and the Kimberlite Career and Technical Centre 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 for École St. Patrick High School:

- At the École St. Patrick High School, **26 of the 37 fixtures** tested above Health Canada Guidelines.
- **25 of the 27 fixtures** tested above Health Canada's Guidelines for lead.
 - 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.
- **9 of 27 fixtures** tested above Health Canada's Guidelines for copper.
 - Health Canada's maximum acceptable concentration (MAC) is 2000 µg/L.
 - The World Health Organization has established a guideline value of 2000 micrograms per liter.

Summary of lead testing results for the Kimberlite Career and Technical Centre:

- At the École St. Patrick High School, **2 of the 4 fixtures** tested above Health Canada Guidelines.
- **2 of the 4 fixtures** tested above Health Canada's Guidelines for lead.
 - 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.
- **1 of 4 fixtures** tested above Health Canada's Guidelines for copper.
 - Health Canada's maximum acceptable concentration (MAC) is 2000 µg/L.
 - The World Health Organization has established a guideline value of 2000 micrograms per liter.

Detailed results for École St. Patrick High School for lead:

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
135A	Room 125	6.5	0.1	1.4	0.6	Flushing Required
135B	Room 125	15.5	0.1	5.2	1.0	Do Not Consume
135D	Room 125	45.9	0.8	10.9	33.5	Do Not Consume

B01	Music Room – Basement	15.5	4.8	5.8	6.5	Do Not Consume
136A	Room 127	12.0	0.2	2.9	1.3	Flushing Required
136C	Room 127	7.9	0.2	5.0	0.6	Flushing Required
127	Drinking Water Fountain – 1 st Floor Near Washrooms	7.8	6.5	3.9	4.3	Do Not Consume
142A	Room 131 – Food Science	13.6	0.1	6.8	2.6	Do Not Consume
160	Hair Room	5.2	1.3	3.1	2.5	Flushing Required
158	Hair Room	7.0	0.2	2.2	0.7	Flushing Required
227A	Room 129	11.4	0.9	3.5	1.9	Flushing Required
227B	Room 129	247.0	0.3	7.7	5.5	Do Not Consume
227C	Room 129	213.0	6.6	107.0	28.3	Do Not Consume
228	Room 220	79.8	1.1	26.0	27.3	Do Not Consume
241	Drinking Water Fountain Near Art Room	8.6	4.0	5.0	2.4	Flushing Required
249	Wark Classroom	25.7	0.5	8.3	4.3	Do Not Consume
245C	Art Room	6.7	0.1	3.5	1.4	Flushing Required
245D	Art Room	20.3	0.3	4.9	0.8	Flushing Required
246	Art Room – Storage Room	289.0	1.7	127.0	78.0	Do Not Consume
216	Drinking Water Fountain Near Lucky Cup Café	27.8	5.7	6.9	6.6	Do Not Consume

223A	Drama Room	35.1	1.1	11.2	26.2	Do Not Consume
223B	Drama Room	27.5	0.9	51.3	12.2	Do Not Consume
218	Room 214 – Library	13.6	1.0	5.2	2.7	Do Not Consume
215	Room 213 – Sensory Room	10.4	0.2	7.3	4.7	Do Not Consume
206	Staff Room Kitchen	19.6	0.2	4.4	1.3	Flushing Required

Detailed results for École St. Patrick High School for copper:

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
127	Drinking Water Fountain – 1 st Floor Near Washrooms	4930.0	6110.0	2610.0	2700.0	Do Not Consume
142A	Room 131 – Food Science	2410.0	107.0	984.0	1150.0	Do Not Consume (due to lead exceedance)
227A	Room 129	2050.0	174.0	681.0	676.0	Flushing Required
227B	Room 129	2230.0	106.0	1380.0	2350.0	Do Not Consume
241	Drinking Water Fountain Near Art Room	2260.0	1360.0	1060.0	1330.0	Flushing Required
245B	Art Room	2120.0	115.0	650.0	672.0	Flushing Required
245C	Art Room	2340.0	109.0	638.0	655.0	Flushing Required
245D	Art Room	2460.0	148.0	634.0	592.0	Flushing Required
218	Room 214 – Library	2200.00	98.3	663.0	588.0	Do Not Consume (due to lead exceedance)

Detailed results for the Kimberlite Career and Technical Centre for lead:

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
100	Drinking Water Fountain	35.7	2.4	14.4	5.8	Do Not Consume
200	2 nd Floor Classroom	6.7	*	*	*	Do Not Consume

*Note for the 2nd floor classroom results: following the system flush and 30-minute stagnation period, sampling could not be completed due to lack of water. A Do Not Consume status has been assigned as a precautionary measure, as flushing could not be confirmed to reduce the level of lead at this fixture.

Detailed results for the Kimberlite Career and Technical Centre for copper:

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
100	Drinking Water Fountain	2090.0	273.0	752.0	488.0	Do Not Consume (due to lead exceedance)

All other drinking water fountains and fixtures showed results well below Canadian guidelines.