

**Drinking Water Quality and Compliance  
Annual Notice to Consumers  
Town of Hepburn**

**Introduction**

The Water Security Agency and the Ministry of Environment requires that at least once each year waterworks owners provide notification to consumers of the quality of water produced and supplied as well as information on the performance of the waterworks in submitting samples as required by a Minister's Order or Permit to operate a waterworks.

The following is a summary of the *Town of Hepburn's* quality and sample submission compliance record for the 2019 time period. This report was completed on Feb 18, 2020.

Readers should refer to Water Security Agency's Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EPB 202 for more information on minimum sample submission requirements and the meaning of type of sample. Permit requirements for a specific waterworks may require more sampling than outlined in the department's monitoring guidelines.

If consumers need more information on the nature and significance of specific water tests, for example, "what is the significance of Selenium in a water supply", more detailed information is available from: [http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index\\_e.html](http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index_e.html).

**Water Quality Standards**

**Bacteriological Quality**

Parameter/Location	Limit	Regular Sample Required	Regular Sample Submitted	# of Positive Regular Sample Submitted (%)
Total Coliform and	0 Organisms/100 mL	53	54	0%
Background Bacteria	Less than 200/100 mL			

**Water Disinfection**

**Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples**

Parameter	Minimum Limit	Total Chlorine Residual Range	Free Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine (%)
Chlorine	0.1 mg/L free OR					
Residual	0.5 mg/L total	0.78- 1.69	n/a*	53	56	100%

\* Because the water from the Hepburn distribution is chloraminated, free chlorine is not measured. Chloramination is the process of adding chloramine to drinking water to disinfect it and kill germs. Chloramination is sometimes used as an alternative to chlorination. Chloramines are a group of chemical compounds that contain chlorine and ammonia.

**Water Disinfection – Total Chlorine Residual for Water Entering Distribution System from Waterworks Records-  
From Water Treatment Plant Records**

Parameter	Limit (mg/L)	Test Level Range	# Tests Performed	# Tests Not Meeting Requirements
Total chlorine Residual	at least 0.5	<u>1.23 - 1.81</u>	<u>364*</u>	<u>0</u>

A minimum of 0.5 milligrams per liter (mg/L) total chlorine residual is required for water entering the distribution system. Tests are normally performed on a daily basis by the waterworks operator and are to be recorded in operation records. This data includes the number of total chlorine residual tests performed, the overall range of total chlorine residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirement of 0.5 mg/L total chlorine residual.

\*On December 23 the daily testing was missed. A note was made in the operation log and appropriate authorities were contacted.

**Turbidity – From Water Treatment Plant Records**

Parameter	Limit (NTU) Performed	Test Level # Tests Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	<u>1.0</u>	<u>0.0 – 0.20</u>	<u>0</u>	<u>0.20</u>	<u>0</u>	<u>363</u>

**Chemical – Trihalomethanes (THMs) and Haloacetic Acids (HAAs)**

Parameter	THMs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Trihalomethanes	0.1	<u>0.038725</u>	4 (1 every 3 months)	<u>4</u>
Haloacetic Acids	0.08	<u>0.02525</u>	4 (1 every 3 months)	<u>4</u>

Note: Only water supplies derived from surface water or groundwater under the influence of surface water are required to monitor for THMs and HAAs. Waterworks using groundwater sources beyond the influence of surface water do not need to report THMs or HAAs since sampling/analysis will not likely have been performed unless otherwise noted in the waterworks permit to operate

More information on water quality and sample submission performance may be obtained from:

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Ministry of  
Environment**

