



**Town of Nipawin
SK05KD001
Drinking Water Quality and Compliance
Annual Notice to Consumers
-2020-**

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. Readers should refer to Water Security Agency's Municipal Drinking Water Quality Monitoring Guidelines, June 2015, EPB 502 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.

Water Quality Standards
Bacteriological Quality

Parameter/Location	Limit	Regular Samples Required	Regular Samples Submitted	# of Positive Regular Submitted (%)
Total Coliform	0 Organisms/100 mL	52	52	0 (0%)
E. coli	0 Organisms/100 mL	52	52	0 (0%)

The Town of Nipawin is responsible to ensure that 100% of all bacteriological samples are submitted as required. Samples for bacteriological water quality are submitted once a week.

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 (100%) Residual	0.1 mg/L free OR 0.5 mg/L total	0.38-1.05	0.25 - 1.01	105	105	Free CL2 105

Water Disinfection - Free 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
Free Chlorine Residual	at least 0.1	0.32 - 1.19	366	0

A minimum of 0.1 milligrams per litre (mg/L) free chlorine residual is required for water entering the distribution system. Tests are normally performed daily by the waterworks operator and are to be recorded in operation records. This data includes the number of free chlorine residual tests performed, the overall range of free chlorine residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirement of 0.1 mg/L free chlorine residual.

Turbidity – From Water Treatment Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	1.0	0.07-0.55	0	0.55	732	731



Chemical – Health Category

Health & Toxicity

<u>Samples Required</u>	<u>Samples Submitted</u>	<u>Date of Last Sample</u>
0	1	April 3, 2019

The Town of Nipawin's water source is from ground water, and we are required to submit one water samples for SE's Health & Toxicity category every 2 years from the Water Treatment Plant. The Chemical Health category includes analysis for arsenic, barium, boron, cadmium, chromium, fluoride, lead, nitrate, selenium, and uranium.

The last sample for Health & Toxicity analysis was submitted on April 3, 2019. Sample results indicated that the Provincial MAC and aesthetic objectives were not exceeded for the Health & Toxicity.

General Chemical

<u>Samples Required</u>	<u>Samples Submitted</u>	<u>Date of Last Sample</u>
1	1	May 27, 2020

The Town of Nipawin's water source is from ground water, and we are required to submit one water samples for SE's General Chemical category every two years from the Water Treatment Plant.

The General Chemical category includes analysis for alkalinity, bicarbonate, calcium, carbonate, chloride, conductivity, hardness (as CaCO₃), magnesium, sodium, sulphate, and total dissolved solids.

The results of samples submitted on the above date indicated that the Provincial aesthetic MAC and objectives were not exceeded for the General Chemical category.

*Objectives apply to certain characteristics of, or substances found in water for human consumptive or hygienic use. The presence of these substances will affect the acceptance of water by consumers and/or interfere with the practice of supplying good quality water. Compliance with drinking water aesthetic objectives is not mandatory as these objectives are in the range where they do not constitute a health hazard. The aesthetic objectives for several parameters (including hardness as CaCO₃, magnesium, sodium, and total dissolved solids) consider regional differences in drinking water sources and quality.

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

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