



**TOWN OF NIPAWIN  
SK05KD001  
DRINKING WATER QUALITY AND COMPLIANCE  
ANNUAL NOTICE TO CONSUMERS  
-2016-**

The Water Security Agency (WSA) 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 our Permit to Operate a Waterworks. The following is a summary of the Town of Nipawin's water quality and sample submission compliance record for the 2016 calendar year. This report was completed on February 17, 2017. Readers should refer to Saskatchewan Environment's "Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EPB 202" for more information on minimum sampling submission requirements. Permit requirements for a specific waterworks may require more sampling than outlined in the department's monitoring guidelines. If consumers need more information on water regulations and the nature and significance of specific water tests, more detailed information is available from: [www.saskh2o.ca](http://www.saskh2o.ca)

**Water Quality Standards**

**Bacteriological Quality**

Parameter	Limit	# of Regular Samples Required to be Submitted	# of Regular Samples Submitted (%)	Total # of Positive Samples Submitted (%)
Total Coliform and Background Bacteria	0 Organisms/100 mg./L Less than 200 Organisms/100 ml	52	52 (100%)	0 (0%)

The Town of Nipawin is responsible to ensure that 100 per cent 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 (mg/L)	Free Chlorine Residual Range	Total Chlorine Residual Range	# Tests with Proper Data Submitted (%)	# Tests- Inadequate Chlorine levels
Chlorine Residual	0.1 mg/L free 0.5 mg/L total	0.30 – 1.63 mg/L	0.58 – 1.93 mg/L	52(52)	0

A minimum of 0.1 milligrams per litre (mg/L) free chlorine residual OR 0.5 mg/L total chlorine residual is required at all times throughout the distribution system unless otherwise approved. The Town of Nipawin's proper chlorine submission is defined as a bacteriological sample submission with both free and total chlorine residuals filled out and the free chlorine residual level being above the minimum regulated level described above. Chlorine residual test results are included on every weekly bacteriological sample submitted.

**General Chemical**

Samples Required	Samples Submitted	Date of Last Sample	Date of Next Sample
1	1	June 1, 2016	2018

The Town of Nipawin is required to submit one treated water sample for SE's General Chemical category every two years from the treated water at the water treatment plant. The General Chemical sample tests for a range of parameters such as hardness and alkalinity. The results of samples submitted on the above date indicated that the Provincial Maximum Acceptable Concentrations (MAC) and aesthetic objectives were not exceeded for the General Chemical category.

## Health & Toxicity Analysis

<u>Samples Required</u>	<u>Samples Submitted</u>	<u>Date of Last Sample</u>
1	1	June 25, 2015

The Town of Nipawin's water source is from groundwater and we are required to submit one treated water sample for SE's Healthy & Toxicity category every two years from the treated water at the water treatment plant. This category includes analysis for arsenic, barium, boron, cadmium, chromium, fluoride, lead, nitrates, selenium and uranium. The results of samples submitted on the above date indicated that the Provincial MAC and aesthetic objectives were not exceeded for the Health & Toxicity category.

## Water Disinfection

### Total Chlorine Residual for Water Entering Distribution System at the Water Treatment Plant - From Water Treatment Plant Records

<u>Parameter</u>	<u>Limit (mg/L)</u>	<u>Test Level Range</u>	<u>#Tests Performed</u>	<u>#Tests Not Meeting Requirements</u>
Free Chlorine Residual	at least 0.10 mg/L	0.65 – 1.76 mg/L	365	0

A minimum of 0.10 milligrams per litre (mg/L) free chlorine residual is required for water entering the distribution system. Tests are performed on a daily basis by the waterworks operator and are recorded in operation records. This data includes the number of free chlorine residual tests performed, the overall range of free residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirement of 0.10 mg/L free chlorine residual.

## Turbidity – From Water Treatment Plant Records

<u>Parameter</u>	<u>Limit (NTU)</u>	<u>Test Level Range</u>	<u>#Tests Not Meeting Requirements</u>	<u>Maximum Turbidity</u>	<u>#Tests Required</u>	<u>#Tests Performed</u>
Turbidity	less than 1.0 NTU	0.08 – 0.63 NTU	0	0.63 NTU	365	365

Turbidity is a measure of water treatment efficiency. Turbidity measures the "clarity" of the drinking water and is generally reported in Nephelometric Turbidity Units (NTU). The Town of Nipawin is required to monitor turbidity at the water treatment plant on a daily basis.

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### **For more information contact:**

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