

## Drinking Water Quality and Compliance

### Village of St. Louis - 2016 Annual Notice to Consumers

The Water Security Agency 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 Permit to Operate a waterworks. The following is a summary of the Village of St. Louis water quality and sample submission compliance record for the 2016 calendar year. This report was completed on January 3, 2017.

Subscribers should refer to the 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.

#### Water Quality Standards

##### Bacteriological Quantity

Water Quality Standards	Limit	Samples Required	Samples Submitted	Positive
Total Coliform	0/100 ml	52	52	0
Background Bacteria	200 NO/100 ml	52	52	0

#### Water Disinfection –Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

Minimum Parameter 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	.43 mg/l - 1.07 mg/l	.23 mg/l - 0.98 mg/l	52	52	99%

#### Water Disinfection –Chlorine Residual in Distribution System for Test Results Performed at Village Water Plant Records

Minimum Parameter Limit	Total Chlorine Residual Range	Free Chlorine Residual Range	# Tests Required	# Tests Performed	# Adequate Chlorine (%)
Chlorine 0.1 mg/L free OR Residual 0.5 mg/L total	.43 mg/l - 1.34 mg/l	.33 mg/l - 1.22 mg/l	365	365	99.7%

#### Turbidity - From Submitted Bacteriological Samples

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed (with Sask Water)
Turbidity	0.3 NTU	0.10 – 0.25 NTU	0	0.25 NTU	52	52

#### Turbidity - From Village Water Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed (with Sask Water)
Turbidity	0.3 NTU	0.07 – 0.28 NTU	0	0.28 NTU	365	365

### Chemical - Health Category

Samples are submitted by Sask Water, Wakaw – Humboldt Pipeline. These test for arsenic, barium, boron, cadmium, chromium, fluoride, lead, manganese, selenium and uranium. Sample results for 2016 indicated that the provincial drinking water quality standards were not exceeded.

<u>Parameter</u>	<u>Limit MAC(mg/L)</u>	<u>Limit IMAC(mg/L)</u>	<u>Sample Result(s)</u>	<u># Samples Exceeding Limit</u>
Arsenic	0.025		0.0002 mg/L	0
Barium	1.0		0.076 mg/L	0
Boron		5.0 mg/L	0.03 mg/L	0
Cadmium	0.005		0.00001 mg/L	0
Chromium	0.05		0.0008 mg/L	0
Fluoride	1.5		0.55 mg/L	0
Lead	0.01		0.0017 mg/L	0
Manganese	0.5		0.0002 mg/L	0
Selenium	0.01		0.0005 mg/L	0
Uranium	0.02		0.0009 mg/L	0

### Chemical – Trihalomethanes (THMs)

<u>Parameter</u>	<u>THMs Limit (mg/L)</u>	<u>Sample Result (average)</u>	<u># Samples Required</u>	<u># Samples Submitted</u>
Trihalomethanes	100 ug/l	55.8 ug/l	4	4

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

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