

# Drinking Water Quality and Compliance Town of Ituna 2021 Annual Notice to Consumers

## 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 Ituna water quality and sample submission compliance record for the 2020 time period. This report was completed on May 21, 2021. 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](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			
E. coli	0 Organisms/100 mL			
Background Bacteria	Less than 200/100 mL	52	52	0

### 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 Residual	0.1 mg/L free OR 0.5 mg/L total	.15 – 3.14	.01 – 2.74	52	52	100

### 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	0.08 – 2.74	121	1

*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 on a daily basis 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	0.17 – 0.50	0	0.79	365	121

## Health & Toxicity 2018

Parameter	Limit MAC(mg/L)	Limit IMAC (mg/L)	Sample Result(s)	# Samples Exceeding Limit
Arsenic	<10		0.10	
Barium	<1000		13.4	
Boron	< 5.0		0.30	
Cadmium	<5		<0.15	



## Health & Toxicity 2018 Continued

Parameter	Limit MAC(mg/L)	Limit IMAC (mg/L)	Sample Result(s)	# Samples Exceeding Limit
Chromium	<50		<0.19	
Iron	<0.3		<0.10	
Lead	<10		<0.07	
Manganese	<0.05		0.08	1
Selenium	<10		<1.13	
Uranium	<20		<0.11	
Zinc	<5000		<4.00	

### Chemical – Health & Toxicity Category

All waterworks serving less than 5000 persons are required to submit water samples for SE's Chemical Health category once every 2 years. The Chemical Health category includes analysis for arsenic, barium, boron, cadmium, chromium, fluoride, lead, nitrate, selenium and uranium.

The last sample for Chemical Health analysis was submitted on June 12, 2018.

## General Chemical 2018

Parameter	Aesthetic Objectives * (mg/L)	Sample Results (average)	# Samples Required	# Samples Submitted
Alkalinity	<500	492	1	1
Bicarbonate	No Guideline	600	1	1
Calcium	No Guideline	146	1	1
Carbonate	No Guideline	0	1	1
Chloride	<250 dissolved	14.0	1	1
Conductivity	<2300	1757	1	1
Fluoride	<1.5 dissolved	0.12	1	1
Hardness	<800	743	1	1
Iron	<0.3	<0.1	1	1
Manganese	<0.05	0.09	1	1
Magnesium	<200	92	1	1
Nitrate	<45 dissolved	<0.2	1	1
PH	6.5 -9.0	7.7	1	1
Potassium	No Guideline	4	1	1
Sodium	<300	156	1	1
Sulphate	<500 dissolved	541.0	1	1
Solids	1500	1310	1	1
Total Dissolved	<1500	1553	1	1

All waterworks serving less than 5000 persons are required to submit water samples for SE's General Chemical category once every two years if a ground water source and once per three months every second year if a surface water or blended surface/groundwater source. The General Chemical category includes analysis for alkalinity, bicarbonate, calcium, carbonate, chloride, conductivity, hardness (as CaCO<sub>3</sub>), magnesium, sodium, sulphate and total dissolved solids.

The last sample for General Chemical analysis was submitted on June 12, 2018.

*\*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 hazards. The aesthetic objectives for several parameters (including hardness as CaCO<sub>3</sub>, 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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