

Drinking Water Quality and Compliance for the TOWN of HANLEY 2018 Annual Notice to Consumers

Introduction

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 a Permit to Operate a waterworks. The following is a summary of the Town of Hanley water quality and sample submission compliance record for the January 1, 2018 to December 31, 2018 time period. This report was completed on January 24, 2019. Readers should refer to the 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 Agency'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 Submitted	Regular (%)	200
Total Coliform and 0 Organisms/100 mL	52	52	1	100%	•
Background Bacteria Less than 200/100 mL					

Water Disinfection -

Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples							
	Minimum	Total Chlorine	Free Chlorine	# Tests	# Tests	# Adequate	
Parameter	Limit	Residual Range	Residual Range	Required	Submitted	Chlorine (%)	

Chlorine 0.1 mg/L free OR
Residual 0.5 mg/L total 0.93 – 1.88 not required 52

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

52

100%

Parameter	Limit (mg/L)	Test Level Range	# Tests Performed	# Tests Not Meeting Requirements	
Total Chlorine Residual	at least 0.5	1.06 - 2.01	365	0	

A minimum of 0.5 milligrams per litre (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. Since going on Saskatoon water, which is chloraminated water (mixture of hypochlor and ammonia sulphate), we rely on Total chlorine levels in the water to determine adequate disinfection of our water supply. This is why we have included Total chlorine numbers in place of Free chlorine numbers.

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	0.10 - 1.80	1 1	1.80 ¹	365	365	

¹ Note: In December of 2018 The Dundum Rural Water Utility repaired a main distribution line. After repair, we recorded the higher than normal turbidity readings.

Chemical - Trihalomethanes (THMs)

Parameter	THMs	Sample	# Samples	# Samples
	Limit (mg/L)	Result (average)	Required	Submitted
Trihalomethanes	0.1	0.04165	4 (1 every 3 months)	4

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

Chemical - Halo Acetic Acids (HAAs)

 Parameter
 HAAs Limit (mg/L)
 Sample Result (average)
 # Samples Required
 # Samples Submitted

 Halo Acetic Acids
 0.080
 0.0255
 2 (1 every 6 months)
 2

Chemical - Health Category

All waterworks serving less than 5000 persons are required to submit water samples for WSA'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. Since Hanley gets there water from the Saskatoon Water Treatment Plant, these tests were performed by the City of Saskatoon.

The City of Saskatoon does their Chemical Health analysis yearly. Sample results can be reviewed on the Government of Saskatchewan H2O website by going to this site:

www.saskh2o.ca

Click on 'My Drinking Water', Go to Select Waterworks, Choose Saskatoon Waterworks, and finally; Click on Current Sampling Requirements.

General Chemical

All waterworks serving less than 5000 persons are required to submit water samples for WSA'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 CaCO₃), magnesium, sodium, sulphate and total dissolved solids. Since Hanley gets their water from the Saskatoon Water Treatment Plant, the required tests were performed by the City of Saskatoon.

Sample results can be reviewed on the Government of Saskatchewan H2O website by going to this site:

www.saskh2o.ca

Click on 'My Drinking Water', Go to Select Waterworks, Choose Saskatoon Waterworks, and finally; Click on Current Sampling Requirements.

*Objectives apply to certain characteristics of 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:

www.saskh2o.ca

Click on 'My Drinking Water', Go to Select Waterworks, Choose Hanley Waterworks, and finally; Click on Current Sampling Requirements.

Or by contacting The Hanley Town Office at:

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