

Drinking Water Quality and Compliance
Rural Municipality of Sherwood
Station Number SK05JF0018
2019 Notification to Consumers

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 Rural Municipality of Sherwood water quality and sample submission compliance record for the January 1, 2019 to December 31, 2019 time period. This report was completed on February 10, 2020. Readers should refer to the WSA's Municipal Drinking Water Quality Monitoring Guidelines, October 2012, EPB 202 for more information on minimum sample submission requirements and types of samples. Permit requirements for a specific waterworks may require more sampling than outlined in the Agency's monitoring guidelines. If consumers need to know more about drinking water in Saskatchewan, more detailed information is available from: <http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index-eng.php>.

BACTERIOLOGICAL QUALITY

Parameter	Limit	Regular Samples Required	Regular Samples Submitted	# Positive of Regular Submitted
Total Coliform	0 Organisms/100 mL	52	66	0
E. Coli	0 Organisms/100 mL	52	66	0
Background Bacteria	Less than 200/100 mL	52	66	0

Analysis is performed on a single sample for all parameters mentioned above. All waterworks are required to submit samples for bacteriological water quality; the frequency of monitoring depends on the population served by the waterworks.

Additional testing was done for informational purposes.

WATER DISINFECTION

Chlorine Residual in Distribution System – From Test Results Submitted with Bacteriological Samples

Parameter	Minimum Limit (either/or)	Range (mg/L)	# Tests Required	# Tests Submitted	# Adequate Chlorine
Free Chlorine	0.1 mg/L	0.01 - 1.95	52	66	65
Total Chlorine	0.5 mg/L	0.14 - 2.52	52	66	

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. An adequate chlorine is a result that indicates that the chlorine level is above the regulated minimums. A waterworks is required to submit chlorine residual test results on every bacteriological sample they submit.

One low chlorine residual was submitted with the bacteriological sample July 3, 2019. The bacteriological result was negative. The EPO was notified. Additional testing was done for informational purposes.

Rural Municipality of Sherwood

Free Chlorine Residual for Water entering the Distribution System

Parameter	Limit (mg/L)	Range (mg/L)	# Tests Required	# Tests Performed	% Adequate Chlorine
Free Chlorine	At least 0.10	0.23 – 1.95	365	365	100

Tests are performed on a daily basis by waterworks operators and are recorded in operation records.

TURBIDITY

Turbidity for Water Entering the Distribution System

Parameter	Limit (NTU)	Range (NTU)	95 th Percentile (NTU)	# Tests Required	# Tests Performed	# months Exceeding Limit
Turbidity	< 1.0 – 95% of measurements each month.	0.02 – 1.59	0.48	365	365	1

Tests are performed on a daily basis by waterworks operators and are recorded in operation records.

The 95% requirement was exceeded during January, 2019. The cause was a filter regeneration that took place on Jan. 7, 2019. The EPO was notified.

Turbidity in the Distribution System – From Test Results Submitted with Bacteriological Samples

Parameter	Limit (NTU)	Range (NTU)	# Tests Required	# Tests Performed	# Exceeding Limit
Turbidity	No standard	0.15 - 2.06	52	66	0

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).

Additional testing was done for informational purposes.

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

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P.O. Box 40029 Grasslands PO
Regina SK S4W 0L3