

**Drinking Water Quality and Compliance
SaskWater White City Potable Water Supply System
2025 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 SaskWater White City Potable Water Supply System water quality and sample submission compliance record for the January 1, 2025, to December 31, 2025, time period. This report was completed on February 2, 2026. Readers should refer to the WSA's Municipal Drinking Water Quality Monitoring Guidelines 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

Sampling from the Raw Water entering the Water Treatment Plant

Parameter	Limit	Regular Samples Required	Regular Samples Submitted	# Of Positive Regular Submitted
Total Coliform	No Limit	12	12	0
E. Coli	No Limit	12	12	0
Background Bacteria	No Limit	12	12	0

Sampling from Water Entering the Distribution System

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

WATER DISINFECTION

Chlorine Residual in Water Entering the 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	0.10 mg/L	0.68 – 1.11	52	52	52
Total Chlorine	0.50 mg/L	1.07 – 1.65	52	52	

A minimum of 0.10 milligrams per litre (mg/L) Free Chlorine residual **OR** 0.50 mg/L Total Chlorine residual is required at all times throughout the distribution system. An adequate chlorine residual 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.

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Free Chlorine Residual for Water Entering Distribution System

Parameter	Minimum Limit (mg/L)	Range (mg/L)	# Tests Required	# Tests Performed	% Adequate Chlorine
Free Chlorine	0.10	0.63 – 1.51	Continuous	Continuous	100

Residuals are continuously monitored and recorded. Tests routinely performed by waterworks operators are recorded in operation records.

TURBIDITY

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

Parameter	Limit (NTU)	Range (NTU)	# Tests Required	# Tests Performed	# Exceeding Limit
Turbidity	No standard	0.08 – 0.35	52	52	0

Turbidity in Water entering the Distribution System

Parameter	Limit (NTU)	Range (NTU)	95th Percentile	# Tests Required	# Tests Performed	# months exceeding 95% limit
Turbidity	< 1.0 NTU – 95% of the time each month	0.03 – 2.00	0.04	Continuous	Continuous	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). The turbidity is done with a bench testing instrument, as well as continuous with an in-line analyzer.

CHEMICAL – HEALTH

The White City Potable Water Supply System is required to submit water samples for the WSA’s Chemical Health category once every second year. 2025 is a required sampling year.

Parameter	MAC (mg/L)	IMAC (mg/L)	AO* (mg/L)	Sample Results (mg/L)	# of Samples Required	# of Samples Submitted
Aluminum	No Objective			0.00696	1	1
Antimony	0.006			<0.00016	1	1
Arsenic	0.010			0.00040	1	1
Barium	1.0			0.0142	1	1
Boron		5.0		0.2	1	1
Cadmium	0.005			<0.00015	1	1
Chromium	0.05			<0.00019	1	1
Copper			1.0	0.0343	1	1
Iron			0.3	<0.1	1	1
Lead	0.01			0.00010	1	1
Manganese			0.05	<0.01	1	1
Selenium	0.01			<0.00113	1	1
Silver	No Objective			<0.00020	1	1
Uranium	0.02			0.0140	1	1
Zinc			5	0.0041	1	1

MAC – Maximum Acceptable Concentrations

AO – Aesthetic Objective

IMAC – Interim Maximum Acceptable Concentrations

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CHEMICAL – GENERAL

The White City Potable Water Supply System is required to submit water samples for the WSA's General Chemical category once every second year. 2025 is a required sampling year.

Parameter	MAC	AO *	Sample Results	# of Samples Required	# of Samples Submitted
Total Alkalinity (mg/L)		500	388	1	1
Bicarbonate (mg/L)	No Objective		473	1	1
Calcium (mg/L)	No Objective		157	1	1
Carbonate (mg/L)	No Objective		0	1	1
Chloride (mg/L)		250	11.7	1	1
Fluoride (mg/L)	1.5		0.37	1	1
Total Hardness (mg/L)		800	689	1	1
Hydroxide (mg/L)	No Objective		0	1	1
Magnesium (mg/L)		200	72	1	1
Nitrate (mg/L)	45		<0.2	1	1
pH (pH units)		7.0 – 10.5	7.3	1	1
Potassium (mg/L)	No Objective		6	1	1
Sodium (mg/L)		300	48	1	1
Specific Conductivity (µs/cm)	No Objective		1237	1	1
Sulphate (mg/L)		500	326.4	1	1
Total Dissolved Solids (mg/L)		1500	1094	1	1

MAC – Maximum Acceptable Concentration

AO – Aesthetic Objective

*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 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:

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