



Drinking Water Quality and Compliance
SaskWater – Saskatoon Non-Potable Pipeline(s)
Station Number – SK05HG0399
2017 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 – Saskatoon Non-Potable Pipeline(s) water quality and sample submission compliance record for the January 1, 2017 to December 31, 2017 time period. This report was completed on April 6, 2018. 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

Sampling from Distribution System

Parameter	Limit	Regular Samples Required	Regular Samples Submitted	# Of Positive Regular Submitted
Total Coliform	0 Organisms/100mL	24	27	27
E. Coli	0 Organisms/100m/L	24	27	23
Background Bacteria	Less than 200/100mL	24	27	27

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 sampling was done for informational purposes only.

TURBIDITY

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

Parameter	Limit (NTU)	Range (NTU)	Average (NTU)	# Tests Required	# Tests Performed	# Exceeding Limit
Turbidity	No Standard	1.47 – 6.84	3.64	24	25	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 tested at the same frequency as the bacteriological testing with a bench testing instrument.

CHEMICAL – HEALTH

The Saskatoon Non-Potable West Pipeline is required to submit water samples for the WSA's Chemical Health category once every second year. 2017 is not a required sampling year. Additional sampling is done for informational purposes. The last sample for Chemical Health analysis was submitted on May 15, 2017.

Parameter	MAC (mg/L)	IMAC (mg/L)	AO* (mg/L)	Sample Results (mg/L)	# of Samples Required	# of Samples Submitted
Aluminum	No Objective			0.0595	0	2
Antimony	0.006			<0.0002	0	2
Arsenic	0.010			0.0012	0	2
Barium	1.0			0.085	0	2
Boron		5.0		0.03	0	2
Cadmium	0.005			0.00002	0	2
Chromium	0.05			<0.0005	0	2
Copper			1.0	0.0030	0	2
Iron			0.3	0.074	0	2
Lead	0.01			0.0002	0	2
Manganese			0.05	0.015	0	2
Selenium	0.01			0.0005	0	2
Silver	No Objective			<0.00005	0	2
Uranium	0.02			0.0014	0	2
Zinc			5	0.0039	0	2

MAC – Maximum Acceptable Concentrations

AO – Aesthetic Objective

IMAC – Interim Maximum Acceptable Concentrations

CHEMICAL – GENERAL

The Saskatoon Non-Potable West Pipeline is required to submit water samples for the WSA's General Chemical category once per three months every second year. 2017 is not a required sampling year. Additional sampling is done for informational purposes. The last sample for analysis was submitted on December 18, 2017.

Parameter	MAC	AO *	Sample Results (mg/L)	# of Samples Required	# of Samples Submitted
Total Alkalinity (mg/L)		500	165	0	4
Bicarbonate (mg/L)	No Objective		196	0	4
Calcium (mg/L)	No Objective		45	0	4
Carbonate (mg/L)	No Objective		4	0	4
Chloride (mg/L)		250	11	0	4
Fluoride (mg/L)	1.5		0.19	0	4
Total Hardness (mg/L)		800	191	0	4
Hydroxide (mg/L)	No Objective		<1	0	4
Magnesium (mg/L)		200	19	0	4
Nitrate (mg/L)	45		0.52	0	4
pH (pH units)		6.5 - 9.0	8.32	0	4
Potassium (mg/L)	No Objective		3.3	0	4
Sodium (mg/L)		300	30	0	4
Specific Conductivity (µs/cm)	No Objective		500	0	4
Sulphate (mg/L)		500	86	0	4
Sum of Ions	No Objective		394	0	4
Total Dissolved Solids (mg/L)		1500	300	0	4

MAC – Maximum Acceptable Concentration

AO – Aesthetic Objective

*Objectives apply to certain characteristics of or substances found in water for human 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.

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

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