



**Drinking Water Quality and Compliance**  
**SaskWater – Saskatoon Non-Potable West Pipeline**  
**Station Number – SK05HG0399**  
**2016 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 West Pipeline water quality and sample submission compliance record for the January 1, 2016 to December 31, 2016 time period. This report was completed on March 20, 2017. 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	17	28	28
E. Coli	0 Organisms/100mL	17	28	24
Background Bacteria	Less than 200/100mL	17	28	28

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	1.82 – 6.50	3.55	17	28	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. 2016 is a required sampling year. The last sample for Chemical Health analysis was submitted on Feb 10, 2016. Sample results indicate that the provincial drinking water quality standards were not exceeded.

Parameter	MAC (mg/L)	IMAC (mg/L)	AO* (mg/L)	Sample Results (mg/L)	# of Samples Required	# of Samples Submitted
Aluminum	No Objective			0.06	1	1
Arsenic	0.010			0.0012	1	1
Barium	1.0			0.088	1	1
Boron		5.0		0.02	1	1
Cadmium	0.005			0.00002	1	1
Chromium	0.05			<0.0005	1	1
Copper			1.0	0.0082	1	1
Iron			0.3	0.1	1	1
Lead	0.01			0.0003	1	1
Manganese			0.05	0.022	1	1
Selenium	0.01			0.0005	1	1
Uranium	0.02			0.0013	1	1
Zinc			5	0.0096	1	1

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. 2016 is a required sampling year. The last sample for analysis was submitted on November 14, 2016. Sample results indicated that the provincial drinking water quality standards were not exceeded.

<b>Parameter</b>	<b>MAC</b>	<b>AO *</b>	<b>Sample Results (mg/L)</b>	<b># of Samples Required</b>	<b># of Samples Submitted</b>
Total Alkalinity (mg/L)		500	169	4	3
Bicarbonate (mg/L)	No Objective		203	4	3
Calcium (mg/L)	No Objective		46	4	3
Carbonate (mg/L)	No Objective		1.3	4	3
Chloride (mg/L)		250	10	4	3
Fluoride (mg/L)	1.5		0.14	4	3
Total Hardness (mg/L)		800	195	4	3
Hydroxide (mg/L)	No Objective		<1	4	3
Magnesium (mg/L)		200	20	4	3
Nitrate (mg/L)	45		0.34	4	3
pH (pH units)		6.5 - 9.0	8.25	4	3
Potassium (mg/L)	No Objective		3.5	4	3
Sodium (mg/L)		300	31	4	3
Specific Conductivity (µs/cm)	No Objective		509	4	3
Sulphate (mg/L)		500	87	4	3
Total Dissolved Solids (mg/L)		1500	308	4	3

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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