



SaskWater

April 27, 2018

306-229-9862

Town of Dalmeny
P.O. Box 400
DALMENY SK S0K 1E0

File: DALMTWN (Letter)
WS3-03-01-700 (Report)

To Whom It May Concern:

Re: SaskWater Saskatoon Potable Water Supply System – North
2017 Annual Notification to Consumers

Please find enclosed the Drinking Water Quality and Compliance Report for the SaskWater SaskWater Saskatoon Potable Water Supply System – North 2017 Annual Notification to Consumers. The operating records have been submitted to the Water Security Agency in accordance with The Water Regulations Act, 2002.

Please call me at 306-229-9862 if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Keller'.

Mark Keller, A. Sc. T.
Manager, District Operations

MK/sm

Enclosure

cc: Kevin Orchard, Supervisor, Regional Systems, SaskWater
Lee Reinhart, Environmental Project Officer, Water Security Agency



Drinking Water Quality and Compliance
SaskWater – Saskatoon Potable Water Supply System - North
Station Number – SK05HH0025
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 Potable Water Supply System - North 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. This system is supplied with water by the City of Saskatoon. Results from these tests can be seen at www.saskatoon.ca. 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	# of Samples Submitted	# of Positive Regular Submitted
Total Coliform	0 Organisms/100mL	156	157	0
E. Coli	0 Organisms/100m/L	156	157	0
Background Bacteria	Less than 200/100mL	156	157	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 for Water in the Distribution System – From Test Results Submitted with Bacteriological Samples

Parameter	Minimum Limit (either/or)	Range (mg/L)	Average (mg/L)	# Tests Required	# Tests Submitted	# Adequate Chlorine
Total Chlorine	0.5 mg/L	1.05 – 1.86	1.60	156	157	157

A minimum of 0.5 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.

Total Chlorine Residual for Water entering the Distribution System

Parameter	Limit (mg/L)	Range (mg/L)	Average (mg/L)	# Tests Required	# Tests Performed	% Adequate Chlorine
Total Chlorine	At least 0.5	1.30 – 2.52	1.70	Continuous	Continuous	100

Minimum 0.5 milligrams per litre (mg/L) total chlorine residual is required for water in a distribution system. Residuals are continuously monitored and recorded.

CHEMICAL – GENERAL

Water quality analysis was conducted on October 11, 2017 for information only. SaskWater is not required to perform this testing as part of the operating permit. Sample results indicated that the provincial drinking water quality standards were not exceeded.

Parameter	MAC	AO*	Sample Results	# of Samples Required	# of Samples Submitted
Total Alkalinity (mg/L)		500	144	0	1
Bicarbonate (mg/L)	No Objective		176	0	1
Calcium (mg/L)	No Objective		44	0	1
Carbonate (mg/L)	No Objective		<1	0	1
Chloride (mg/L)		250	15	0	1
Fluoride (mg/L)	1.5		0.70	0	1
Total Hardness (mg/L)		800	184	0	1
Hydroxide (mg/L)	No Objective		<1	0	1
Magnesium (mg/L)		200	18	0	1
Nitrate (mg/L)	45		0.94	0	1
pH (pH units)		6.5 - 9.0	7.87	0	1
Potassium (mg/L)	No Objective		3.6	0	1
Sodium (mg/L)		300	28	0	1
Specific Conductivity (µs/cm)	No Objective		504	0	1
Sulphate (mg/L)		500	92	0	1
Sum of Ions	No Objective		378	0	1
Total Dissolved Solids (mg/L)		1500	300	0	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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 Fax: 306-694-3207
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