

**TOWN OF RADISSON
DRINKING WATER QUALITY AND COMPLIANCE
ANNUAL NOTICE TO CONSUMERS FOR YEAR 2017**

The following is a summary of the Town of Radisson water quality and sample submission compliance record for the period, January 1, 2017 to December 31, 2017. This report was completed on July 22, 2018. Readers should refer to Sask Environment's Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EPB 2002 for more information on minimum sample submission requirements and the meaning of type of sample. Permit requirements for a specific waterworks may require more sampling than outlined in the department's monitoring guidelines. If consumers need more info on the nature and significance of specific water tests, more detailed info is available from: <http://www.saskh2o.ca/>

<u>Water Quality Standards</u>		<u>Bacteriological Quality</u>		
<u>Parameter</u> <u>/Location</u>	<u>Limit</u>	<u>Regular Samples</u> <u>Required</u>	<u>Regular Samples</u> <u>Submitted</u>	<u>No. of</u> <u>Positive of Samples</u> <u>Submitted (%)</u>
Total Coliform	0 Organisms/100 mL	52	52	0
E. Coli	0 Organisms/100 mL	52	52	0
Bacteria		(Repeat Samples tested Negative for Bacteria)		

Water Disinfection – Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples

Parameter	Minimum Limit	Free Chlorine Residual Range	Total Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine (%)
Chlorine Residual Total	0.1 mg/L free OR 0.5 mg/L	.17 to .86	.11 to 1.18	52	52	100.0%

Water Disinfection – Chlorine Residual in Distribution System for Test Results Submitted with Bacteriological Samples at the Water Treatment Plant

Parameter	Minimum Limit	Free Chlorine Residual Range	# Tests Performed	# Tests Not Meeting Requirements	# Adequate (%)
Free Chlorine Residual	0.2 mg/L free	.07 to 1.30	365	3	99.18%

Turbidity – From Water Treatment Plant Records

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	< 1.0	.01 – 1.73	3	1.73	365	365

Chemical – Health Category

All waterworks serving less than 5000 persons are required to submit water samples for Saskatchewan Environment's "Chemical Health" category once every 2 years. The "Chemical Health Category includes analysis for arsenic, barium, cadmium, chromium, fluoride, lead, nitrate, selenium and uranium. The last sample for "Chemical Health" analysis was submitted on January 9, 2017. Sample results indicated that the provincial drinking water quality standards were not exceeded.

Parameter	Limit MAC (mg/L)	Limit IMAC (mg/L)	Radisson Sample Results
Aluminum	None Set		.007
Arsenic	25		1.1
Barium	1.0		.020
Boron		5.0	.2
Cadmium	0.005		.00015
Copper	999		35
Chromium	0.05		.0019
Iron	0.3		.01
Fluoride (avg*)	1.5		.24
Lead	0.01		.0006
Manganese	.05		.01
Nitrate (avg*)	45.0		.2
Selenium	0.01		.0011
Uranium	20		.0008
Zinc	5000		.0061

MAC – Maximum Acceptable Concentrations - **IMAC** – Interim Maximum Acceptable Concentrations

Parameter	Aesthetic Objectives (mg/l)	Sample Results (mg/l)	# Samples Required	# Samples Submitted
Alkalinity	500	301	1	1
Bicarbonate	None	367	1	1
Calcium	None	81	1	1
Carbonate	None	0	1	1
Chloride	250	13.2	1	1
Conductivity	2300	736	1	1
Hardness	800	338	1	1
Magnesium	200	33	1	1
PH	6.5 – 9.0	7.7	1	1
Potassium	None	5	1	1
Sodium	300	33	1	1
Sulfate	500	90.4	1	1
Total Dissolved Solids	1500	623	1	1

- 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 for several parameters (including hardness as CaCO₃, magnesium, Sodium and total dissolved solids) consider regional differences in drinking water sources and quality. Results expressed as average values for communities or waterworks which fluoridate drinking water supplies or those with elevated concentrations of fluoride or nitrates.

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

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