

Moosomin Regional Park Drinking Water Quality and Compliance

Introduction

The Water Security Agency and the Ministry of Environment 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 Minister's Order or Permit to Operate a waterworks. The following is a summary of the MDRP water quality and sample submission compliance record for the June 22 2022 time period. This report was completed on *June 28, 2023*. Readers should refer to Water Security Agency's [Municipal Drinking Water Quality Monitoring Guidelines, June 2015, EPB 502](#) 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 information on the nature and significance of specific water tests, for example, "what is the significance of Selenium in a water supply", more detailed information is available from: http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index_e.html.

Water Quality Standards

Bacteriological Quality

Parameter/Location	Limit	Regular Samples Required	Regular Samples Submitted	# of Positive Regular Samples Submitted (%)
Total Coliform	0 Organisms/100 mL	20	28	0%
E. coli	0 Organisms/100 mL	20	28	0%

Water Disinfection –

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

Parameter	Limit	Minimum Residual Range	Total Chlorine Residual Range	Free Chlorine Required	# Tests Submitted	# Tests Adequate Chlorine (%)
Chlorine Residual	0.1 mg/L free OR 0.5 mg/L total	0.35-1.40	0.20-1.19	20	28	100

Water Disinfection - Free Chlorine Residual for Water Entering Distribution System from Waterworks

Records-From Water Treatment Plant Records

Parameter	Limit (mg/L)	Test Level Range	# Tests Performed	# Tests Not Meeting Requirements
Free Chlorine Residual	at least 0.1	0.45-1.60	144	0

A minimum of 0.1 milligrams per litre (mg/L) free chlorine residual is required for water entering the distribution system. Tests are normally performed on a daily basis by the waterworks operator and are to be recorded in operation records. This data includes the number of free chlorine residual tests performed, the overall range of free chlorine residual (highest and lowest recorded values) and the number of tests and percentage of results not meeting the minimum requirement of 0.1 mg/L free chlorine residual.

Turbidity – From Water Treatment Plant Records

Parameter	Limit	Test Level (NTU)	# Tests Not Meeting Range	Maximum Requirements	# Tests Turbidity (NTU)	# Tests Required
Turbidity	0.20	0.04-0.22	1	0.22	144	144

Chemical – Health Category

All waterworks serving less than 5000 persons are required to submit water samples for SE's Chemical Health category once every 2 years. The Chemical Health category includes analysis for arsenic, barium, boron, cadmium, chromium, fluoride, lead, nitrate, selenium and uranium. The last sample for Chemical Health analysis was submitted on *August 25, 2022*. Sample results indicated that the provincial drinking water quality standards were not exceeded.

Chemical – Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

Parameter	THMs	Sample Limit (mg/L)	# Samples	# Samples Result (average)
Required	Submitted			
Trihalomethanes	0.1	0.051	4 (1 every 3 months)	2
Haloacetic Acids	0.08	0.0165	4 (1 every 3 months)	2

General Chemical

All waterworks serving less than 5000 persons are required to submit water samples for SE's General Chemical category once per three months every second year if a surface water or blended surface/groundwater source. The General Chemical category includes analysis for alkalinity, bicarbonate, calcium, carbonate, chloride, conductivity, hardness (as CaCO₃), magnesium, sodium, sulphate and total dissolved



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solids. The last sample for General Chemical analysis was required in 2022 and submitted on *August 25 2022*. Sample results indicated that there were no exceedences of the provincial aesthetic objectives for the General Chemical category.

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

Moosomin Regional and District Park @306.435.3531 or moosominregionalpark@sasktel.net



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