

TOWN OF BIGGAR, SASKATCHEWAN

Drinking Water Quality and Compliance Annual Notice to Consumers 2010

Introduction

Saskatchewan 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 Town of Biggar water quality and sample submission compliance record for the January 1st to December 31st, 2010 time period. This report was completed on January 10, 2011. Readers should refer to Saskatchewan Environment's "Municipal Drinking Water Quality Monitoring Guidelines, November 2002, EPB 202" 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/water-eau/drink-potab/index_e.html

Water Quality Standards Bacteriological Quality

Parameter/Location	Limit	Regular Samples Required	Regular Samples Submitted	# of Positive Regular Submitted (%)
Total Coliform Bacteria	0 Organisms/100mL	52	56	0%
Background Bacteria	Less than 200/100 mL	52	56	0%

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	0.1mg/L free OR 0.5 mg/L total	0.12 – 1.27 mg/L	0.26 – 1.65 mg/L	52	56	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	0.11-1.78 mg/L	365	0

Turbidity – From Water Treatment Plant Records – Distribution System / WTP

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity	# Tests Required	# Tests Performed
Turbidity - Distribution System (Samples)	5.0 NTU/Objective	0.08 – 0.45 NTU	0	0.45 NTU	52	56
Turbidity - Water Treatment Plant	1.0 NTU/Max	0.07 – 0.54 NTU	0	0.54 NTU	730	730

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, boron, cadmium, chromium, fluoride, lead, nitrate, selenium and uranium.

The last sample for “Chemical Health” analysis was submitted on October 20, 2009. Sample results indicated that the provincial drinking water quality standards were not exceeded.

Parameter	Limit MAC (mg/L)	Limit IMAC (mg/L)	Sample Result(s) (mg/L)	# Samples Exceeding Limit
Arsenic	0.025		0.0007	NIL
Barium	1.0		0.022	NIL
Boron		5.0	0.17	NIL
Cadmium	0.005		<0.00001	NIL
Chromium	0.05		<0.0005	NIL
Fluoride (avg*)	1.5		0.27	NIL
Lead	0.01		0.0002	NIL
Nitrate (avg*)	45.0		0.31	NIL
Selenium	0.01		0.0001	NIL
Uranium	0.02		0.0085	NIL

* 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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