

**Drinking Water Quality and Compliance  
Town Short Form – A Template for Annual Notice to Consumers**

*(Note: This short form may be used for communities or waterworks serving a population of less than 5000).*

**Introduction**

Saskatchewan Environment (SE) 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 Village of Buena Vista's water quality and sample submission compliance record for December 1, 2008 to November 30, 2009. This report was completed on December 10, 2009. Readers should refer to SE'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/pubs/water-eau/index\\_e.html](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 Submitted (%)
Total Coliform and Background Bacteria	0 Organisms/100 mL Less than 200/100 mL	24	28	1

**Water Disinfection –**

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

Parameter	Minimum Limit	Total Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine
Chlorine Residual	0.5 mg/L total	1.52 – 1.98	24	28	28

**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	.22 – 1.19	0	1.19	365	365

Daily monitoring of the water treatment plant began January 1, 2005.

**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 April 11, 2008. 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)	# Samples Exceeding Limit	
Arsenic	0.025		.017	0	* Results expressed as average values for communities or waterworks that fluoridate drinking water supplies or those with elevated concentrations of fluoride or nitrates.
Barium	1.0		0.033	0	
Boron	5		0.37	0	
Cadmium	0.005		<0.0001	0	
Chromium	0.05		<0.0005	0	
Aluminum	None Set		<0.0014	0	
Lead	0.01		0.0012	0	
Manganese	None Set	0.05	0.048	0	
Selenium	0.01		0.0001	0	
Uranium	20		0.1	0	
Copper	None Set	1	0.023	0	
Iron	None Set	0.3	0.065	0	
Zinc	None Set	5	0.0045	0	

### General Chemical

<b>Parameter</b>	<b>Aesthetic Objectives * (mg/L)</b>	<b>Sample Results (average)</b>
Alkalinity	None Set	360 mg/L
Bicarbonate	None Set	439 mg/L
Calcium	None Set	23 mg/L
Chloride	250	15 MG/l
Conductivity	None Set	848 uS/cm
Hardness	800	98 mg/L
Magnesium	None Set	9.9 mg/L
pH	6.5 – 9.0	8.25 units
Sodium	300	164 mg/L
Sulphate	500	87 mg/L
Total dissolved Solids	1500	550 mg/L
Nitrate	None Set	<0.40 mg/L
Potassium	None Set	3.2 mg/L
Fluoride	1.5	0.45 mg/L
Carbonate	None Set	<1mg/L
Sum of Ions	None Set	741mg/L

All waterworks serving less than 5000 persons are required to submit water samples for SE's General Chemical category once every two years if a ground water source and 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 CaCO<sub>3</sub>), magnesium, sodium, sulphate and total dissolved solids.

The last sample for General Chemical analysis was submitted on April 11, 2008. Sample results indicated that there were no exceedences of the provincial aesthetic objectives for the General Chemical category.

\*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 hazard. The aesthetic objectives for several parameters (including hardness as CaCO<sub>3</sub>, 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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