Drinking Water Quality and Compilance Village of Vibank

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

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 Village of Vibanks water quality and sample submission compliance record for the 2023 time period. This report was completed on January 24, 2024(must be completed before June 30 each year on a calendar year based reporting frequency). 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 Submitted (%)	-
Total Coliform	0 Organisms/100 mL 0 Organisms/100 mL	24 24	24 24	100% 100%	
E. coli		74		10070	

	AM - T - T - A - D	
Water	Disinfection	-

Chlorine Residual In Distribution System for Test Results Submitted with Bacteriological Samples						
- Company of the Comp	Minimum	Total Chlorine	Free Chlorine	#Tests	# Tests	# Adequate
Parameter	Limit	Residual Range	Residual Range	Required	Submitted	Chlorine (%)
Chlorine	0.1 mg/L free OR	0.20-1.06	0.16-0.71	24	24	100%
Residual	0.5 mg/L total					

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 Regulrements			
Free Chlorine Residual	at least 0.1	0,29-1.52	365	w 1.			

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.

Turbldity - F	rom Water I	reatment Plant	Records				
Parameter	Limit	Test Level	# Tests Not Meetin	ig Maximum	# Tests	# Tests	
	# Tests (NTU)	Range	Requirements	Turbidity (NTU)	Required	Performed	
Performed							
Turkidibe	1	0.16-1.25	1 res clean)	1.25		365	365

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

The last sample for Chemical Health analysis was submitted on *January 2022*. Sample results indicated that the provincial drinking water quality standards were not exceeded. (Use this one if review indicates that there were no exceedences). (OR) Samples exceeded provincial water quality standards for the following parameters: (Use only the applicable portions of table below for which values have been exceeded).

Parameter	Limit MAC(mg/L)	Limit IMAC (mg/L)	Sample Result(s)	# Samples Exceeding Limit	
Arsenic	0.010		0.0013	·1·····	* Results expressed
Barlum	1.0		0.0013		as average values
Boron		5.0	0.0069		for communities or
Bromate	0.01		N/A		waterworks that
Cadmlum	0.005		<0.00015		fluoridate drinking
Chlorate	1.0		N/A		water supplies or
Chlorite	1.0		N/A		those with elevated
Chromium	0.05		<0,00019		concentrations of
Fluoride (avg*)	1.5		0.05		fluoride or nitrates.
Lead	0.01		0.0001		r .
Nitrate (avg.*)	45,0		<0,2	***************************************	
Seleniuum	0.01		< 0.00113	***************************************	
Uranium	0.02		0.0011		

Note: Only water supplies derived from surface water or groundwater under the influence of surface water are required to monitor for THMs and HAAs. Waterworks using groundwater sources beyond the influence of surface water do not need to report THMs or HAAs since sampling/analysis will not likely have been performed unless otherwise noted in the waterworks permit to operate

General Chemical

And the second s	Aesthetic	Sample Results		# Samples
Parameter	Objectives * (mg/L)	(average)	Required	Submitted
Alkalinity	500	109		
Bicarbonate	No Objective	133		
Calcium	No Objective	2		
Carbonate	No Objective	0		
Chioride	250	1.3		
Conductivity	No Objective	221 us/cm		
Hardness	800	9		
Magnesium	200	1		
PH	No Objective	7.4		
Sodium	300	44		
Sulphate	500	5.2		
Total dissolved	THE ART OF	1		
Solids	1500	188		

All waterworks serving less then 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, bloarbonate, calcium, carbonate, chloride, conductivity, hardness (as CaCO₃), magnesium, sodium, sulphate and total dissolved solids.

The last sample for General Chemical analysis was required in January 2022 and will be submitted February 2024. Indicated that there were no exceedences of the provincial aeathetic objectives for the General Chemical category (use this statement if there were no exceedences). (QB) Samples exceeded provincial aeathetic objectives for the General





Chemical category for the following parameters: (use only the applicable portions of the table below for which values have been exceeded).

*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:
Village of Vibank

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