

Town of Eston

2023 Drinking Water Quality and Compliance

Annual Notice to Consumers

Introduction

The Water Security Agency 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 the Permit to Operate a waterworks. The following is a summary of the **Town of Eston** water quality and sample submission compliance record for the 2023 period. This report was completed on 03/25/2024. 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, 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/hecs-sesc/water/dwgsup.htm).

## Water Quality Standards

# Bacteriological Quality

 **Regular Samples Regular Samples # of Positive Regular**

**Parameter/Location Limit Required Submitted Submitted (%)**

Total Coliform 0 Organisms/100 mL 52 52 0

E. coli 0 Organisms/100 mL 52 52 0

Background Bacteria Less than 200/100 mL 52 52 0

Water Disinfection –

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

 Minimum Total Chlorine Free Chlorine # Tests # Tests # Adequate

Parameter Limit Residual Range Residual Range Required Submitted Chlorine (%)

Chlorine 0.1 mg/L free OR

Residual 0.5 mg/L total 0.45-1.38 0.24-1.17 52 52 100%

**Water Disinfection - Free Chlorine Residual for Water Entering Distribution System from Waterworks Records-From Water Treatment Plant Records**

 **Test Level # Tests# Tests Not Meeting**

**Parameter Limit (mg/L) Range Performed Requirements**

Free Chlorine Residual at least 0.1 0.24-1.17 365 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 # Tests Not Meeting Maximum # Tests # Tests**

 **(NTU) Range Requirements Turbidity (NTU) Required Performed**

Turbidity 1.00 0.06-064 0 0.64 365 365

Chemical – Health Category

All waterworks serving less than 5,000 persons are required to submit water samples for SE’s Chemical Health category once every year. 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 in 2022. Sample results indicated that the provincial drinking water quality standards were not exceeded. Samples will be taken again in 2023.

Limit Sample # Samples

Parameter MAC(mg/L) Result(s)mg/l Exceeding Limit

Arsenic 0.01 0.0025 0

Aluminum No Limit 0.153 0

Barium 1.0 0.0699 0

Boron 5.0 0.01 0

Cadmium 0.005 0.00015 0

Chromium 0.05 0.00020 0

Copper 1.0 0.00375 0

Iron 0.3 0.20 0

Lead 0.01 0.00003 0

Manganese 0.05 0.10 0

Selenium 0.01 0.00113 0

Uranium 0.02 0.0019 0

Zinc 5 0.0123 0

Chemical – Trihalomethanes (THMs)

Parameter THMs Sample # Samples # Samples

 Limit (mg/L) Average Result (average) Required Submitted

Trihalomethanes 100 82.6 4 (1 every 3 months) 4

Haloacetic Acids 80 47.5 4 (1 every 3 months) 4

# General Chemical

All waterworks serving less than 5,000 persons are required to submit water samples for SE’s General Chemical once per year.

 Aesthetic Sample Results # Samples # Samples

Parameter Objectives (mg/L) (average) Required Submitted

Conductivity 2.3 0.649 1 1

pH 7.0-10.5 8.0 1 1

Total Alkalinity 500 205 1 1

Phenol Alkalinity No Limit 0 1 1

Bicarbonate No Limit 250 1 1

Carbonate No Limit 0 1 1

Hydroxide No Limit 0 1 1

Chloride Dissolved 250 20.8 1 1

Fluoride Dissolved 1.5 0.20 1 1

Nitrate Dissolved 45 0.7 1 1

Sulfate Dissolved 500 112.2 1 1

Total Hardness 800 217 1 1

Total Dissolved Solids 1500 497 1 1

Iron 0.30 0.20 1 1

Manganese 0.5 0.10 1 1

Calcium No Limit 49 1 1

Magnesium 200 23 1 1

Potassium No Limit 4 1 1

Sodium 300 37 1 1

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

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