



**Drinking Water Quality and Compliance  
for The City of Humboldt  
2016 Annual Notice to Consumers**

### Introduction

The Water Security Agency (WSA) 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 Permit to Operate a Waterworks. The following is a summary of the City of Humboldt's water quality and sample submission compliance record for the January 1, 2016 to December 31, 2016 time period. This report was completed on April 24<sup>th</sup>, 2017. Readers should refer to the Agency's Municipal Drinking Water Quality Monitoring Guidelines, November 2015, 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 Agency'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	156	156	0 (0%)

#### Water Disinfection –

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

Parameter	Minimum Limit	Total Chlorine Residual Range	Free Chlorine Residual Range	# Tests Required	# Tests Submitted	# Adequate Chlorine (%)
Chlorine Residual	0.1 mg/L free OR 0.5 mg/L total	0.57→2.01	0.33→1.73	156	156	156 (100%)

#### Water Disinfection - Free Chlorine Residual for Water Entering Distribution System from Waterworks Records-From Water Distribution Facility Records

Parameter	Limit (mg/L)	Test Level Range	# Tests Performed	# Tests Not Meeting Requirements
Free Chlorine Residual	at least 0.1	0.94→2.54	365*	0

\*Continuously monitored by computer system. Computer records confirmed requirements met on Dec 31, 2016.

*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 Distribution Facility Records**

Parameter	Limit (NTU)	Test Level Range	# Tests Not Meeting Requirements	Maximum Turbidity (NTU)	# Tests Required	# Tests Performed
Turbidity	1.0	0.05→0.31	0	0.31	366	365*

\*Continuously monitored by computer system. Computer records confirmed within limit on Dec 31, 2016.

**Chemical – Halo Acetic Acids (HAAs)**

Parameter	HAAs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Halo Acetic Acids	0.080	0.077	2 (1 every 6 months)	2

**Chemical – Trihalomethanes (THMs)**

Parameter	THMs Limit (mg/L)	Sample Result (average)	# Samples Required	# Samples Submitted
Trihalomethanes	0.1	0.066	4 (1 every 3 months)	4

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

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

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