

# ORGANIZED HAMLET OF LIVELONG

## Drinking Water Quality and Compliance

### Annual Notice to Consumers

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 Organized Hamlet of Livelong water quality and sample submission compliance record of the **January 1 - December 31, 2024** time period. This report was completed on March 17, 2025. 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](http://www.hc-sc.gc.ca/ewh-semt/pubs/water-eau/index_e.html).

#### Water Quality Standards

##### Bacteriological Quality

<u>Parameter/Location</u>	<u>Limit</u>	<u>Regular Samples Required</u>	<u>Regular Samples Submitted</u>	<u># of Positive Regular Submitted (%)</u>
Total Coliform and Background Bacteria	0 Organisms/100 mg/L Less than 200 Organisms/100 mL	24	27	0

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

<u>Parameter</u>	<u>Minimum Limit (mg/L)</u>	<u>Free Chlorine Residual Range</u>	<u>Total Chlorine Residual Range</u>	<u>#Tests Required</u>	<u>#Tests Submitted</u>	<u>#Adequate Chlorine (%)</u>
Chlorine Residual	0.1 mg/L free OR 0.5 mg/L total	0.12-1.85	0.23-2.40	24	27	

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

<u>Parameter</u>	<u>Limit (mg/L)</u>	<u>Test Level Range</u>	<u># Tests Performed</u>	<u># Tests Not Meeting Requirements</u>
Free Chlorine Residual	at least 0.1	0.09-3.62	365	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.*

##### Turbidity - From Water Treatment Plant Records

<u>Parameter</u>	<u>Limit (NTU)</u>	<u>Test Level Range</u>	<u>#Tests Not Meeting Requirements</u>	<u>Maximum Turbidity (NTU)</u>	<u># Tests Required</u>	<u># Tests Performed</u>
Turbidity	1.0	0.13-1.14	1	1.14	365	365

##### Chemical - Health Category

<u>Parameter</u>	<u>Limit MAC (mg/L)</u>	<u>Limit IMAC (mg/L)</u>	<u>Sample Results</u>	<u># Samples Exceeding Limit</u>
Arsenic	0.025 (25 ug/l)		0.00647 mg/l	0
Barium	1.0		0.0275 mg/l	0
Boron	5.0		0.134 mg/l	0
Cadmium	0.005		<0.000050 mg/l	0
Chromium	0.05		<0.00050 mg/l	0
Fluoride	1.5		0.090 mg/l	0
Lead	0.01		0.000119 mg/l	0
Nitrate	45.0		<0.020 mg/l	0
Selenium	0.01		<0.000050 mg/l	0
Uranium	0.02 (20 ug/l)		0.00270 mg/l	0

*Substances within the chemical health category may be naturally occurring in drinking water sources or may be the result of human activities. These substances may represent a long-term health risk if the Maximum Acceptable Concentration (MAC) or Interim Maximum Acceptable Concentration (IMAC) is exceeded. All drinking water supplies are required to monitor for substances in the "Chemical-Health" category, the*

frequency of monitoring depends on the population served by the waterworks. Some waterworks will add fluoride to drinking water as a means to aid in the prevention of dental decay.

**General Chemical**

Parameter	Aesthetic Objectives * (mg/L)	Sample Results	# Samples Required	# Samples Submitted
Alkalinity	No Objective	420	1	1
Bicarbonate	No Objective	513	1	1
Calcium	No Objective	128	1	1
Carbonate	No Objective	<1.0	1	1
Chloride	250	8.96	1	1
Conductivity	No Objective	953	1	1
Hardness	800	529	1	1
Magnesium	No Objective	45.9	1	1
PH	6.5 – 9.0	7.97	1	1
Sodium	300	48.6	1	1
Sulfate	500	52.5	1	1
Total dissolved Solids	1500	584	1	1

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 CaCO3), magnesium, sodium, sulphate and total dissolved solids.

Chemical-Health and General Chemical sampling was conducted on March 25, 2024.

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

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