

2019

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

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 (*community name*) water quality and sample submission compliance record for the (*inset applicable time period here*) time period. This report was completed on (*insert date here*) (*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-semf/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 | 52 | 52 | 0 |
| E. coli | 0 Organisms/100 mL | 52 | 52 | 0 |
| Background Bacteria | Less than 200/100 mL | | | |

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 | 0.51 - 2.51 | 0.13 - 2.00 | 52 | 52 | 100 |

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 Requirements |
|------------------------|--------------|------------------|-------------------|----------------------------------|
| Free Chlorine Residual | at least 0.1 | 0.39 - 2.22 | 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 (NTU) | Test Level Range | # Tests Not Meeting Requirements | Maximum Turbidity (NTU) | # Tests Required | # Tests Performed |
|-----------|-------------|------------------|----------------------------------|-------------------------|------------------|-------------------|
| Turbidity | 1.00 | 0.06 - 0.16 | 0 | 0.16 | 730 | 730 |

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 (*insert date*). Sample results indicated that the provincial drinking water quality standards were not exceeded. (*Use this one if review indicates that there were no exceedences*).



Saskatchewan
Ministry of
Environment



Environmental Services Analysis Report - Final

| | | | |
|-------------------------|-------------|--------------------------|----------------------|
| Invoice Number: | 1121760 | Collected Date: | 23-Jan-2020 10:20 AM |
| Sample Location: | Shop | Received: | 24-Jan-2020 9:04 AM |
| Collected by: | Jake Senger | Permit: | 2542 |
| Station #: | SK05GC0011 | UNITY DIST.SYSTEM | Reported: |
| | | | 29-Jan-2020 4:05 PM |
| | | Water Source: | Distributed |

| | |
|----------------------|-----------------|
| Submitted By: | Invoice: |
| UNITY TOWN OF | UNITY TOWN OF |
| BOX 1030 | BOX 1030 |
| UNITY, SK | UNITY, SK |
| S0K 4L0 | S0K 4L0 |

| Analysis | Result | Unit | Sask Guideline | Test Comment | Fee |
|---------------------------------------|--------|------------------------|----------------|--------------|--------|
| General Chemistry/Water Quality Panel | | | | | 104.00 |
| Conductivity | 2051 | µS/cm | < 2300 | | |
| pH | 7.6 | pH Units | 6.5 - 9.0 | | |
| Total Alkalinity | 529 | mg/L CaCO ₃ | < 500 | | |
| Phenol Alkalinity | 0.00 | mg/L CaCO ₃ | No Guideline | | |
| Bicarbonate | 645 | mg/L | No Guideline | | |
| Carbonate | 0 | mg/L | No Guideline | | |
| Hydroxide | 0 | mg/L | No Guideline | | |
| Chloride Dissolved | 28.4 | mg/L | < 250 | | |
| Fluoride Dissolved | 0.23 | mg/L | < 1.5 | | |
| Nitrate Dissolved | <0.2 | mg/L | < 45 | | |
| Sulfate Dissolved | 569.1 | mg/L | < 500 | | |
| Total Hardness (Calculated) | 279 | mg/L CaCO ₃ | < 800 | | |
| Total Dissolved Solids | 1736 | mg/L | < 1500 | | |
| Iron | <0.1 | mg/L | < 0.3 | | |
| Manganese | <0.01 | mg/L | < 0.05 | | |
| Calcium | 72 | mg/L | No Guideline | | |
| Magnesium | 24 | mg/L | < 200 | | |
| Potassium | 10 | mg/L | No Guideline | | |
| Sodium | 387 | mg/L | < 300 | | |

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| Collected by: | Jake Senger | Reported: | 29-Jan-2020 4:05 PM |
| Station #: | SK05GC0011 | Water Source: | Distributed |
| | UNITY DIST.SYSTEM | Permit: | 2542 |

Submitter Phone Number: 306-228-2621

Emailed results to: unity.water@sasktel.net
kris.dushire@wsask.ca

Comments:

Is this water used for livestock? For information on livestock water quality guidelines contact the Agriculture Knowledge Centre (AKC) Phone: 1-866-457-2377 Email: aginfo@gov.sk.ca

Please include
Invoice Number
with payment
and remit to:

**Saskatchewan Health Authority
c/o Finance
2180 23rd Avenue
Regina, Saskatchewan
S4S 0A5**

| | |
|--|--------|
| Total Fees (including GST) | 104.00 |
| Tax Summary | 4.95 |
| G.S.T. (reg # 89583 0180 RT001) | |
| Amount Received: (No Payment Received) | 0.00 |

Balance Due upon receipt of invoice.

| | |
|---------------------|-----------------|
| Balance Owed | \$104.00 |
|---------------------|-----------------|

Contact Us:

Result Interpretation: Please contact your EPO for advice or phone 306-787-6517
Billing Inquiries: Phone: (306) 766-5832, Fax: (306) 766-5188, Email: corpfinance@rqhealth.ca

Environmental Services Analysis Report - Final

| | | | |
|-------------------------|-------------|------------------------|----------------------|
| Invoice Number: | 1121761 | Collected Date: | 23-Jan-2020 10:20 AM |
| Sample Location: | Shop | Received: | 24-Jan-2020 9:04 AM |
| Collected by: | Jake Senger | Reported: | 30-Jan-2020 9:14 AM |
| Station #: | SK05GC0011 | Water Source: | Distributed |
| | | Permit: | 2542 |
| | | | UNITY DIST.SYSTEM |

| | | | |
|----------------------|---------------|-----------------|---------------|
| Submitted By: | UNITY TOWN OF | Invoice: | UNITY TOWN OF |
| | BOX 1030 | | BOX 1030 |
| | UNITY, SK | | UNITY, SK |
| | S0K 4L0 | | S0K 4L0 |

| Analysis | Result | Unit | Sask Guideline | Test Comment | Fee |
|---------------------------|--------|------|----------------|--------------|-------|
| Health and Toxicity Panel | | | | | 92.50 |
| Boron | 0.9 | mg/L | < 5.0 | | |
| Iron | <0.1 | mg/L | < 0.3 | | |
| Manganese | <0.01 | mg/L | < 0.05 | | |
| Aluminum (ICPMS) | <6.96 | µg/L | No Guideline | | |
| Arsenic (ICPMS) | 0.80 | µg/L | < 10 | | |
| Barium (ICPMS) | 7.7 | µg/L | < 1000 | | |
| Cadmium (ICPMS) | <0.15 | µg/L | < 5 | | |
| Chromium (ICPMS) | <0.19 | µg/L | < 50 | | |
| Copper (ICPMS) | 11.2 | µg/L | < 1000 | | |
| Lead (ICPMS) | 0.10 | µg/L | < 10 | | |
| Selenium (ICPMS) | <1.13 | µg/L | < 10 | | |
| Uranium (ICPMS) | 1.1 | µg/L | < 20 | | |
| Zinc (ICPMS) | <4.00 | µg/L | < 5000 | | |
| Antimony (ICPMS) | <0.16 | µg/L | No Guideline | | |
| Silver (ICPMS) | <0.20 | µg/L | No Guideline | | |

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Permit: 2542
UNITY DIST.SYSTEM

Submitter Phone Number: 306-228-2621**Emailed results to:** unity.water@sasktel.net
kris.dushire@wsask.ca**Comments:**Please include
Invoice Number
with payment
and remit to:**Saskatchewan Health Authority**
c/o Finance
2180 23rd Avenue
Regina, Saskatchewan
S4S 0A5

Total Fees (including GST) 92.50

Tax Summary 4.40
G.S.T. (reg # 89583 0180 RT001)

Amount Received: (No Payment Received) 0.00

Balance Due upon receipt of invoice.

| | |
|---------------------|----------------|
| Balance Owed | \$92.50 |
|---------------------|----------------|

Contact Us:

Result Interpretation: Please contact your EPO for advice or phone 306-787-6517
Billing Inquiries: Phone: (306) 766-5832, Fax: (306) 766-5188, Email: corpfinance@rqhealth.ca