

Public Water System Annual Report

Town of Melita

2018

Contact persons: Sandra Anderson, C.A.O.

Phone Numbers:

Town Office: 204-522-3413

Email: tofmel@mymts.net Office

Date Prepared: 4/12/2019

Prepared by: Sandra Anderson

Table of Contents

Introduction: 3

1. Description of the Water System..... 3

1.1. Distribution System 4

1.2. Water Treatment Process 4

1.3. Number of Connections, Population Served and types of Water Users4

1.4. Classification and Certification 5

1.5. Bacterial Testing 5

1.6. Disinfection 5

2. Drinking Water Safety Orders and Actions Taken in Response 5

3. Boil Water Advisories Issued and Actions Taken in Response..... 5

4. Warnings Issued/Charges Laid in Accordance with the Drinking Water Safety Act 5

5. Major Expenses Incurred..... 5

6. Future System Expansion and/or Increased Production..... 5

Appendix “A” – Annual Audit 2018..... 6

Introduction:

The 2018 Annual Report for the Town of Melita summarizes the water utility's ability to produce safe potable water and meet or exceed provincial regulations. We hope that the following report answers any and all questions regarding the water system. It is our belief that the public has a right to access information related to the drinking water they consume. To that end the following report has been prepared for the residents of the Town of Melita and RM of Two Borders users who have lines coming off Melita's distribution system.

1. Description of the Water System

The Melita Public Water System (PWS) provides safe potable drinking water to the residents of Melita through the distribution system and to rural residents who aren't on the Co-op pipeline by means of the Truck Fill System at the Water Treatment Plant (WTP) and those who have lines coming off Melita's distribution system. Treated water produced from the WTP meets or exceeds all health and aesthetic objectives as stated in the *Guidelines for Canadian Drinking Water Quality*.

The Melita Water Treatment Plant



Truck Fill



1.1. Distribution System

Treated water from the reservoir, located underneath the WTP, is pumped throughout the Melita distribution system via two 7.5 horsepower duty pumps, with one 30 horsepower emergency standby pump for firefighting purposes. The Town of Melita has 3 different types of pipe in its distribution system; they consist of PVC, cast iron and ductile iron, which all combined run for a total of about 15km. The WTP also has a natural gas powered generator located in the building that powers the distribution pumps during times of a power failure.

The Distribution Pumps



The Generator

1.2. Water Treatment Process

For information on the water treatment process, raw water wells, chemicals used and water testing please refer to *South West Regional Water Co-op's Annual Report*.

1.3. Number of Connections, Population Served and types of Water Users

The Melita distribution system is comprised of 592 service connections, with a population of 1042 (2011 Statistics Canada Census) approximately. The distribution system also services a few rural connections located directly around town in the RM of Two Borders.

1.4. Classification and Certification

- The Melita distribution system is classified as a Class 1 Water Distribution Facility.
- Certification Level of Operators;
 - Gary VanSteelandt

1.5. Bacterial Testing

The water is sampled in two different locations in the distribution (within the Town of Melita) is tested every two weeks (bi-weekly) for the presence of Total Coli forms (TC) and E. Coli (EC) bacteria. If these bacteria are present in the water it is an indication that disease causing organisms may also be present. These samples are then sent by mail to a provincially sanctioned lab in Winnipeg for testing. For 2018 all samples sent for testing passed.

1.6. Disinfection

Disinfection is the selective destruction or inactivation of potential disease causing organisms in water. Per the *Drinking Water Safety Act* the Melita PWS must ensure that a disinfection residual of at least:

- 0.5 mg/L of free chlorine per litre of water is detectable at the point where water enters the distribution system, after a minimum contact time of 20 minutes.
- 0.1 mg/L of free chlorine per litre of water is detectable at all times at any point in the distribution network.

For 2018 all samples tested met both the above standards. Water is tested daily at the Melita Lodge to check the chlorine residuals in the system along with the other tests listed below. For 2018 the chlorine residuals at the Lodge were on average 0.74 mg/L with the highest and lowest readings being 0.95 mg/L and 0.45 mg/L.

- Lodge Tests on average 6 tests per day, which include turbidity, free chlorine, total chlorine, iron, pH, manganese, conductivity and hardness.

2. Drinking Water Safety Orders and Actions Taken in Response

In 2018, no drinking water safety orders were issued for the Melita PWS.

3. Boil Water Advisories Issued and Actions Taken in Response

In 2018, no boil water advisories were issued for the Melita PWS.

4. Warnings Issued/Charges Laid in Accordance with the Drinking Water Safety Act

In 2018, no warnings were issued or charges laid for the Melita PWS.

5. Major Expenses Incurred

None

6. Future System Expansion

Nothing for 2019



Sustainable Development

Office of Drinking Water
1129 Queens Avenue
Brandon Manitoba Canada R7A 1L9
T 204-724-0685 F 204-726-6567
www.manitoba.ca/drinkingwater

March 12, 2019

Sandra Anderson
Chief Administrative Officer
Town of Melita
Box 364
Melita MB R0M 1L0

2018 Annual Compliance Audit

Dear Ms. Anderson:

Please find enclosed the 2018 Annual Compliance Audit for the Melita (Southwest Regional Co-op) public water system (PWS). The report compares water system compliance to *The Drinking Water Safety Act* and its supporting regulations, and the terms and conditions of the water system's current operating licence (PWS-12-514-A).

Where non-compliance items are identified, the issues do not necessarily translate into increased public health risk. The Office of Drinking Water uses processes, including boil water advisories, to notify water users of a public health risk.

Please review the following terms and conditions of your operating licence to ensure ongoing compliance:

- Water quality sampling frequencies identified in *Table 2*.
- Water System Qualified Person Assessment (due date: March 1, 2019)
- 2018 Public Water System Annual Report (due date: March 31, 2019)

Water suppliers are reminded to immediately notify the Office of Drinking Water of any condition(s) that may affect the ability of the water system to produce or deliver safe drinking water. These conditions include:

- treatment upsets, bypass conditions, operation outside of licence conditions
- contamination of source or treated water
- a disinfection, filtration, or distribution system failure

Operational Guidelines to assist operators in meeting regulatory obligations for monitoring and reporting under The Drinking Water Safety Act, including Seasonal System and Emergency Reporting requirements, can be found on our website at: www.gov.mb.ca/drinkingwater.

Additional Information

Beginning in 2019, the requirement to submit a compliance plan will be removed from operating licences as they are renewed or amended. Section 8 of the Drinking Water Quality Standard Regulation states that the director may require water systems to submit a plan if they are not in


compliance with a drinking water standard that details when and how the water supply will come into compliance with the standard. Water systems will be notified in writing if a plan is requested.

Health Canada has completed their review on National Guidelines, including algae (total microcystin toxins) manganese and lead. The new guidelines are expected to be finalized and posted with minor changes following the public consultation stage. Owners and operators are encouraged to review Health Canada's guidelines and related chemistry results to determine what impact they may have on your water supply. You will receive notification of any changes to Health Canada's Guidelines for Canadian Drinking Water Quality and Manitoba Standards should they affect your water supply.

Beginning April 1, 2019, the Office of Drinking Water will begin posting PWS Operating Licences and a copy of the most recent chemistry analysis on our public website.

The 2018 Annual Compliance Audit is based on information submitted to this office. If you have questions regarding non-compliance items identified in this audit, please review your records prior to contacting this office. If your records conflict with the audit information, please call me at (204) 724-0685.

Sincerely,



Nancy Fitzgerald
Regional Drinking Water Officer

e.copy: Brock Bolton, Water Treatment Plant Operator

Sustainable Development

2018 Annual Compliance Audit

Water System: MELITA (SOUTHWEST REGIONAL WATER CO-OP) - PWS

Code: 137.00

Water System Owner: Town of Melita

Water System Operating Licence: PWS-12-514 A

Expiry Date: April 30, 2017

- 1) This report documents the Melita (Southwest Regional Water Co-op) Public Water System compliance for the period from January 1 to December 31, 2018.
- 2) Addendum A to this report provides specific information on the non-compliance incidents identified in the summary below.
- 3) Other than the information provided in attached Addendum A, the water supplier has complied with *The Drinking Water Safety Act*, its supporting regulations, and the terms and conditions of the water system's current operating licence
- 4) This report is based on information submitted by the water supplier, agents of the water supplier, and / or the Province of Manitoba.

Summary of Non-Compliance Incidents:

None reported

Sustainable Development

Addendum A: Record of Non-Compliance

Water System: MELITA (SOUTHWEST REGIONAL WATER CO-OP) - PWS

Report period: January 1, 2018 to December 31, 2018.

Enforcement Action Taken

Date	Incident	Outcome
	None reported	

Disinfection Requirements

Date	Incident	Outcome
	None reported	

Bacteriological Requirements

Date	Incident	Outcome
	None reported	

Microbial Requirements

Date	Incident	Outcome
	None reported	

Turbidity Requirements

Date	Incident	Outcome
	None reported	

Chemical Requirements

Date	Incident	Outcome
	None reported	

Operational Requirements

Date	Incident	Outcome
	None reported	