



MILDMAY DRINKING WATER SYSTEM
Physical Address: 38 ABSALOM ST W, , SOUTH
BRUCE, ON N0G 2J0

INSPECTION REPORT

Entity: THE CORPORATION OF THE
MUNICIPALITY OF SOUTH
BRUCE
VEOLIA WATER CANADA INC.
Inspection Start Date: September 04, 2025
Site Inspection Date: September 05, 2025
Inspection End Date: October 17, 2025
Inspected By: Grace Lumley
Badge #: P1562
Inspected By: Marc Bechard
Badge #: 918
Inspected By: Heather Lovely
Badge #: 1680

Grace Lumley

(signature)

INTRODUCTION

Purpose

The primary focus of this inspection is to confirm compliance with Ministry of the Environment, Conservation and Parks (MECP) legislation as well as evaluating conformance with ministry drinking water policies and guidelines during the inspection period. The ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as management practices. This drinking water system is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems." This inspection has been conducted pursuant to Section 81 of the SDWA. This inspection report does not suggest that all applicable legislation and regulations were evaluated. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

Scope

On September 3rd, 2025, Water Compliance Officer Grace Lumley (shadowed by Heather Lovely) met with operator Malcolm Cormack to conduct an inspection of the Mildmay drinking water system.

The site inspection included the treatment equipment, the diesel generator located in the pump house, as well as the two wellheads, one within the pump house and the other located in a separate out-building. The elevated storage tank was inspected as well. The Mildmay DWS is in the Municipality of South Bruce and Veolia Water Canada is the Operating Authority of the drinking water system on behalf of the municipality (owner). The inspection period for this report is from the date of the last inspection, November 25th, 2024, to the date of the current inspection, September 3rd, 2025.

Systems/Components

Note: The Mildmay DWS draws water from two drilled artesian wells, usually referred to as "Well 1" and "Well 2".

MILDMAY WELL 1

Groundwater Production Well

Well #1 (WWR 1402162) was drilled in March 1968 and has a 250 mm diameter, is 34.9 m deep and is located within the pumphouse and approximately 20 m from Otter Creek. The well is equipped with a submersible pump rated at 18.9 L/sec at a TDH of 70 m discharging through a 100 mm diameter header with a 250 X 100 mm well seal. This arrangement is completed with a pressure sustaining check valve, isolation valve, flow meter, pressure gauge and sample tap.

MILDMAY WELL 2

Groundwater Production Well

Well #2 (WWR 1407200) was drilled in June 1989 and has a 250 mm diameter, is 34.4 m deep and is located 3 m from the pumphouse within a separate out-building and is approximately 28 m from Otter Creek. The well is equipped with a submersible pump rated at 18.9 L/sec at a TDH of 70 m. Well # 2 is equipped with a 150 mm pitless adaptor to a header located within the pumphouse. There is a pressure sustaining check valve, isolation valve, flow meter, pressure gauge and sample tap which complete the supply arrangement.

Wells alternate between duty and standby status on a weekly basis as of the summer of 2015.

There are numerous potential sources of contamination in the vicinity of the production wells including sanitary sewers, railway, roads, and residential properties. However, these wells are still considered 'secure ground water' sources as long as artesian conditions persist, according to the Engineer's Report of 2001.

MILDMAY PUMP HOUSE

Address: 38 Absalom Street West, Mildmay

The Mildmay Drinking Water System (DWS) is owned by the Municipality of South Bruce and contracted to the Operating Authority of Veolia Water Canada Inc. The drinking water system is currently deemed a Class II Water Distribution and Supply, which serves approximately 1200 residents with 556 customer connections.

The Mildmay DWS is required to provide 2 log removal/inactivation of viruses. Sodium hypochlorite (12%) is used as the disinfectant and is injected into the raw water stream via a chemical metering pump rated at 3.78 L/hr. Chlorine contact is achieved via a 400 mm diameter watermain 182 m in length with no service connections. This watermain provides about 15 minutes of contact time at the peak flow rate of 1637 cubic meters per day. An automatic chlorine analyzer is connected to an auto-dialer and there is also an automatic turbidity analyzer that is not connected to the auto-dialer. In cases when a power failure may occur, there is a stand-by diesel generator (40 kW) installed in the pumphouse to provide back-up power for continual supply of drinking water into the distribution system. There are flow meters on each raw water source prior to chlorine injection.

Pathogen Log Removal/Inactivation Credits

Minimum Disinfection Required: 2 log removal/inactivation of Viruses

Disinfection Credits Assigned: 2+ log removal/ inactivation of Viruses via Chlorination

Log removal/inactivation credit assignment is based on each treatment process being fully operational and the applicable log removal/inactivation credit assignment criteria being met.

Log Removal/Inactivation Credit Assignment Criteria

1. Sampling and testing for free chlorine residual shall be carried out by continuous monitoring equipment in accordance with the Ministry's Procedure for Disinfection of Drinking Water in Ontario.
2. At all times, CT provided shall be greater than or equal to the CT required to achieve the log removal credits assigned.
3. The chlorine contact simulator shall be checked on at least a monthly basis to ensure that it adequately simulates chlorine contact time in the chlorine contact pipe under maximum flow conditions. The flow rate of treated water through the chlorine contact simulator shall be within plus or minus 5% of 2.09 L/minute.
4. Treated water in the distribution system shall be sampled, tested and monitored for free chlorine residual concentration on a weekly basis at the site of the first consumer using manual grab samples.
5. Treated water at the end of the chlorine contact simulator shall be sampled, tested and monitored for free chlorine residual concentration at least twice a week, at least two days apart.

CT CALCULATION

Disinfection Requirements: 2 log inactivation for Viruses

Maximum pH = 7.7

Minimum water temperature = 5 degrees Celsius

CT Required = 4.0 mg-min/L (for 2 log inactivation of viruses by free chlorine based on an interpolation of the CT values in Table 7 of the 2006 Procedure for Disinfection of Drinking Water in Ontario)

(T10 is the length of time during which not more than 10% of the influent Water would pass through that process.)

Baffle ratio (T10/T Ratio) from Engineer's Report = 0.8

Contact Water Main:

Volume Capacity (m³): 18.297

Maximum permitted flow rate (m³/min) = 1.14 m³/min

Effective contact time @ max flow (min) = 16.05

Minimum Disinfection Residual Concentration (mg/L) = 0.25 mg/L

Therefore, a minimum free chlorine concentration of 0.25 mg/L is required to meet primary disinfection at the maximum flow rate.

CONTACT SIMULATOR

A chlorine contact simulator was installed rather than make substantial changes to the DWS infrastructure by installing a chlorine residual monitor after the chlorine contact watermain. The purpose of the simulator, according to the Engineer's letter prepared November 26, 2007, is to mimic the 15-minute contact in the trunk watermain leaving the water treatment plant. Fifteen minutes is approximately the length of time water would be in the contact main at peak flows.

The simulator has a 1.9 m pipe of 150 mm diameter (volume = 0.037 m³) and houses the continuous chlorine residual analyzer. To replicate the 15-minute contact time of the watermain, flow through the simulator needs to be approximately 1.75 L/minute. Operators check the chlorine contact simulator to ensure the rate of flow is close to 2 L/minute and compare chlorine residual grab samples with the free chlorine residual after the contact simulator.

DISTRIBUTION SYSTEM

The Mildmay DWS serves a population of approximately 1200 with 556 service connections. The distribution system was initiated in 1977 and primarily installed in 1982 and 1983 consisting of ductile iron, cast iron, 86 series plastic and PVC primarily in 4.6-inch and 8-inch diameters.

ELEVATED TANK

A Certificate of Approval (C of A) for the construction of an elevated water storage facility was issued March 3, 1987. Water storage and pressure are maintained by an elevated storage tank, which has a capacity of 1000 m³ and is located south of Carrol and Jane Street.

Permissions/Approvals

- Municipal Drinking Water License is 095-101 Issue 8, issued December 18, 2024.
- Application for License Renewal Date: 29-Apr-2029.
- Drinking Water Works Permit is 095-201 Issue 5, issued September 18, 2024.
- The Permit to Take Water (well 1 and 2) 5676-CBERKY.
- Operational Plan 095-401, Operating Authority 095-OA1

NON-COMPLIANCE

This should not be construed as a confirmation of full compliance with all potential applicable legal requirements. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

RECOMMENDATIONS

This should not be construed as a confirmation of full conformance with all potential applicable BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

Ministry Program: DRINKING WATER | **Regulated Activity:** DW Municipal Residential

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| Question ID | DWMR1007001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 1-2 (1)1; | | | |
| Question: Was the owner maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): The owner was maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials. The production well is secure and maintained in a locked out building, in a manner that is sufficient to prevent entry into the well of surface water and other foreign materials. | | | |

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| Question ID | DWMR1009001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA 31 (1); | | | |
| Question: Were measures in place to protect the groundwater and/or GUDI source in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Measures were in place to protect the groundwater and/or GUDI source. Conditions 16.2.8, 16.2.9, and 16.2.10 of Schedule B of the Municipal Drinking Water License states that the Mildmay Operations and Maintenance Manual must include a well inspection and maintenance program that includes the following: an inspection schedule for all wells associated with the drinking water system, including all production wells, stand-by wells, test wells and monitoring wells; well inspection and maintenance procedures for the entire well structure of each well including all above and below grade well components; and remedial action plans for situations where an inspection indicates non-compliance. The Mildmay Operations and Maintenance Manual states "Wells 1 and 2 are to be inspected Monthly by the Operators to verify that wells are artesian, and to check the overall well head conditions and security. Grab Raw Water Turbidity Samples are also collected from each well on a weekly basis. Detailed Well inspections of all above and below ground conditions and equipment are completed every 10 years, or additionally as required. The inspection of below ground conditions must be completed by a certified well technician. Any required repairs or remedial action will be dealt with in a timely manner, and all work will be performed by a | | | |

certified well technician." Records show that the artesian conditions of Well's 1 and 2 were checked each month. The Operating Authority, in the 2024 Summary Report for South Bruce, stated, "The raw water quality of the Well #1 in Mildmay remains excellent. The first two tables below show that there were no instances of E. Coli or Total Coliform in the Raw Water Sample Results. The third table shows the Raw Water Turbidity. Turbidity is a measurement of the clarity of the water (the lower the number the more clear the water is). For 2024 the raw turbidity ranged from 0.07 to 0.33 ntu, and averaged 0.16 ntu. This range is consistent with previous years Raw Water Turbidity...The raw water quality of the Well #2 in Mildmay remains excellent. The first two tables below show that there were no instances of E. Coli or Total Coliform in the Raw Water Sample Results...For 2024 the raw turbidity ranged from 0.09 to 0.28 ntu, and averaged 0.18 ntu. This range is consistent with previous years Raw Water Turbidity. Based on this information it does not appear that a below grade inspection of the well is required at this time."

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| Question ID | DWMR1014001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA 31 (1); | | | |
| Question: Was flow monitoring performed as required by the Municipal Drinking Water Licence or Drinking Water Works Permit? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Flow monitoring was performed as required. Schedule C of the Municipal Drinking Water License, condition 2.1.1 and 2.1.2, stipulates that flow rate, volume of water into the treatment system (raw water), and volume into the distribution system (treated water) must be recorded daily. Raw water flow into the treatment system is measured via 2 flow meters (one per well), and the volume and flow rate of the treated water is captured with the same device as it is a flow through system. | | | |

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| Question ID | DWMR1016001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA 31 (1); | | | |
| Question: Was the owner in compliance with the conditions associated with maximum flow rate or the rated/operational capacity in the Municipal Drinking Water Licence? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): The owner was in compliance with the conditions associated with maximum flow rate and/or the rated/operational capacity conditions. The Mildmay Municipal Drinking Water License does not stipulate a maximum flow rate, but does identify a rated capacity of 1,637 m3/day for flows from the treatment subsystem to the distribution system. Upon review of the daily reports for this inspection period, there were no exceedances of the plant's rated capacity. | | | |

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| Question ID | DWMR1018001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA 31 (1); | | | |
| Question: Did the owner ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): The owner ensured that equipment was installed as required. | | | |

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| Question ID | DWMR1020001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA 31 (1); | | | |
| Question: Were Form 1 documents prepared as required? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Form 1 documents were prepared as required. One form 1 was prepared and submitted as required for this inspection period. The Form 1, dated March 14th, 2025, was submitted for upgrades to the existing distribution system located at Kleist and Dietz Street in Mildmay. The form was signed by a Licensed Engineer and the Manager of Operations both on March 14th, 2025. | | | |

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| Question ID | DWMR1023001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 1-2 (2); | | | |
| Question: Did records indicate that the treatment equipment was operated in a manner that achieved the design capabilities prescribed by O. Reg. 170/03, Drinking Water Works Permit and/or Municipal Drinking Water Licence at all times that water was being supplied to consumers? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities prescribed. There was no evidence this inspection period indicating that improperly disinfected water was directed to the consumers in Mildmay. | | | |

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| Question ID | DWMR1024001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 1-2 (2); | | | |
| Question: Did records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required. The free chlorine residual was measured daily (284 times for this inspection period), and recorded in the daily reports. All results were greater than 0.05 mg/L. | | | |

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| Question ID | DWMR1033001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 7-2 (3); SDWA O. Reg. 170/03 7-2 (4); | | | |
| Question: Was secondary disinfectant residual tested as required for the large municipal residential distribution system? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Secondary disinfectant residual was tested as required. Free chlorine residual distribution samples were taken daily from varied locations in the Mildmay distribution system, and the results were recorded in the daily log sheets (identified as "Water Rounds"). | | | |

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| Question ID | DWMR1030001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 7-2 (1); SDWA O. Reg. 170/03 7-2 (2); | | | |
| Question: Was primary disinfection chlorine monitoring being conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit or at/near a location where the intended CT had just been achieved? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Primary disinfection chlorine monitoring was conducted as required. The continuous free chlorine analyzer is installed at the end of the chlorine contact simulator (also known as a CT simulator). The purpose of the simulator is to replicate the 15-minute conditions of the chlorine contact watermain, as water would be entering the distribution system (where the simulator is programmed to represent maximum flow rates). Therefore, the free chlorine residual that is represented by the simulator is less than the actual residual in the treatment stream - unless the flow rate exceeds the maximum. This ensures that the level | | | |

of disinfection remains more than adequate.

| Question ID | DWMR1035001 | Question Type | Legislative |
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| Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)1-4; | | | |
| Question: Were operators examining continuous monitoring test results and did they examine the results within 72 hours of the test? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Operators were examining continuous monitoring test results as required. The daily reports include the minimum, maximum, and average values for the continuous monitoring results provided by SCADA. These daily reports are printed and reviewed each day by operators, which is more frequent than the required 72 hour review period. | | | |

| Question ID | DWMR1038001 | Question Type | Legislative |
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| Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)1-4; | | | |
| Question: Was continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements performing tests for the parameters with at least the minimum frequency and recording data with the prescribed format? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was performing tests for the parameters with at least the minimum frequency and recording data with the prescribed format. Continuous monitoring of the free chlorine that is required to achieve primary disinfection is recorded once or more each minute, which is more than the legislative requirement of every 5 minutes. | | | |

| Question ID | DWMR1037001 | Question Type | Legislative |
|---|-------------|---------------|-------------|
| Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)5-10; SDWA O. Reg. 170/03 6-5 (1.1); | | | |
| Question: Were all continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or Municipal Drinking Water Licence or Drinking Water Works Permit or order, equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): All required continuous monitoring equipment utilized for sampling and testing were equipped | | | |

with alarms or shut-off mechanisms that satisfied the standards

The low chlorine alarm remains set to call the designated operator (at the time) when the free chlorine residual reaches 0.80 mg/L, and the system will shut-down at a residual of 0.70 mg/L. Under maximum flow conditions, a free chlorine of 0.25 mg/L is needed to meet primary disinfection requirements based on the system's CT calculation.

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| Question ID | DWMR1040001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)1-4; SDWA O. Reg. 170/03 6-5 (1)5-10; | | | |
| Question: Were all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): All continuous analysers were calibrated, maintained, and operated as required. The continuous chlorine analyzer was verified for accuracy using a handheld measurement each weekday, and the equipment was inspected/recalibrated when necessary based on the results and margin of error. The chlorine injection point was cleaned and the chlorination system was checked each month. | | | |

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| Question ID | DWMR1108001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)5-10; SDWA O. Reg. 170/03 6-5 (1.1); | | | |
| Question: Where continuous monitoring equipment used for the monitoring of free chlorine residual, total chlorine residual, combined chlorine residual or turbidity, required by O. Reg. 170/03, Municipal Drinking Water Licence, Drinking Water Works Permit, or order triggered an alarm or an automatic shut-off, did a qualified person respond as required and take appropriate actions? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): A qualified person responded as required and took appropriate actions. | | | |

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| Question ID | DWMR1099001 | Question Type | Information |
| Legislative Requirement(s): Not Applicable | | | |
| Question: Do records show that water provided by the drinking water system met the Ontario Drinking | | | |

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| Water Quality Standards? |
| <p>Compliance Response(s)/Corrective Action(s)/Observation(s): Records showed that all water sample results met the Ontario Drinking Water Quality Standards.</p> |

| Question ID | DWMR1083001 | Question Type | Legislative |
|---|-------------|---------------|-------------|
| Legislative Requirement(s): SDWA O. Reg. 170/03 10-3; | | | |
| Question: Were treated microbiological sampling requirements prescribed by Schedule 10-3 of O. Reg. 170/03 for large municipal residential systems met? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Treated microbiological sampling requirements were met. 170/03 Schedule 10-3 states that microbiological samples must be taken each week from treated water, before it enters the distribution system. For the Mildmay Drinking Water System, all samples were taken in accordance with the regulation for EC, TC, and HPC, and the sampling date range is consistently within 6 to 8 days. There was no detection of EC or TC for this inspection period, and the HPC sample results ranged from 10-20 CFU/1mL. | | | |

| Question ID | DWMR1081001 | Question Type | Legislative |
|---|-------------|---------------|-------------|
| Legislative Requirement(s): SDWA O. Reg. 170/03 10-2 (1); SDWA O. Reg. 170/03 10-2 (2); SDWA O. Reg. 170/03 10-2 (3); | | | |
| Question: Were distribution microbiological sampling requirements prescribed by Schedule 10-2 of O. Reg. 170/03 for large municipal residential systems met? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Distribution microbiological sampling requirements were met. Based on a population of 1200 residents, the system is required to take 8 distribution microbiological samples per month, plus an additional sample for every 1000 people in the population (9 samples/month requirement as per 170/03 Schedule 10-2), with at least one sample taken each week. The system conducts microbiological distribution samples 3 times per week, for a total of 12 per month. No EC or TC was detected in any sample this inspection period. HPC was included in the distribution sample twice per week (8 HPC samples per month), which accounts for 8 out of 9 of the required samples (89%), which is above the requirement of 25% (170/03 Schedule 10-2(3)). | | | |

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| Question ID | DWMR1096001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 6-3 (1); | | | |
| Question: Did records confirm that chlorine residual tests were conducted at the same time and location as microbiological samples? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Records confirmed that chlorine residual tests were conducted as required. Free chlorine residual test information and results were highlighted on documentation titled "Water Rounds", where in which the operators daily checks were recorded. The date and location of the free chlorine residual tests were cross referenced and appropriately matched with the same information for the microbiological samples captured from the Ministry's Laboratory Sample Result Database (REDI). | | | |

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| Question ID | DWMR1084001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 13-2; | | | |
| Question: Were inorganic parameter sampling requirements prescribed by Schedule 13-2 of O. Reg. 170/03 met? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Inorganic parameter sampling requirements were met. 170/03 Schedule 13-2 states that inorganic parameters stipulated in 169/03 Schedule 23 are due to be sampled every 36 months. These parameters were measured at this drinking water system last in January 2024. The most recent sampling results were below the reportable thresholds and ranged from 0.06% to 10.0% MAC. Schedule 23 parameters are due to be sampled again in January 2027. | | | |

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|--|-------------|----------------------|-------------|
| Question ID | DWMR1085001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 13-4 (1); SDWA O. Reg. 170/03 13-4 (2); SDWA O. Reg. 170/03 13-4 (3); | | | |
| Question: Were organic parameter sampling requirements prescribed by Schedule 13-4 of O. Reg. 170/03 met? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Organic parameter sampling requirements were met. 170/03 Schedule 13-4 states that organic parameters stipulated in 169/03 Schedule 24 are due to be sampled every 36 months. These parameters were measured at this drinking water | | | |

system in January 2024. The most recent sampling results were below the reportable thresholds and results ranged from 0.004% to 40% MAC. Schedule 24 parameters are due to be sampled again in January 2027.

| Question ID | DWMR1086001 | Question Type | Legislative |
|--|-------------|---------------|-------------|
| Legislative Requirement(s): SDWA O. Reg. 170/03 13-6.1 (1); SDWA O. Reg. 170/03 13-6.1 (2); SDWA O. Reg. 170/03 13-6.1 (3); SDWA O. Reg. 170/03 13-6.1 (4); SDWA O. Reg. 170/03 13-6.1 (5); SDWA O. Reg. 170/03 13-6.1 (6); | | | |
| Question: Were haloacetic acid sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Haloacetic acid sampling requirements were met. As per 170/03, 13-6.1, the Mildmay Drinking Water System is required to sample and test for HAA's in each calendar quarter, expressed yearly as a running annual average (RAA) of the four test results. Based on last years inspection report, sampling was conducted as per the regulation and the results were well below the ODWQS of 80 ug/L RAA. Last year's inspection report also indicated that sampling for HAA's were not due again until the January-March quarter, 2025. In this inspection period, HAA's were sampled in every quarter as per the regulation (n=3 samples) with a consistent result of 5.3 ug/L. Therefore, the running annual average for Haloacetic Acids for the 2025-2026 inspection period was 5.3 ug/L which is under the ODWQS of 80 ug/L. | | | |

| Question ID | DWMR1087001 | Question Type | Legislative |
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| Legislative Requirement(s): SDWA O. Reg. 170/03 13-6 (1); SDWA O. Reg. 170/03 13-6 (2); SDWA O. Reg. 170/03 13-6 (3); SDWA O. Reg. 170/03 13-6 (4); SDWA O. Reg. 170/03 13-6 (5); SDWA O. Reg. 170/03 13-6 (6); | | | |
| Question: Were trihalomethane sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Trihalomethane sampling requirements were met. As per 170/03, 13-6, the Mildmay Drinking Water System is required to sample and test for THM's in each calendar quarter, expressed yearly as a running annual average (RAA) of the four test results. Based on last years inspection report, sampling was conducted as per the regulation and the results were well below the ODWQS of 100 ug/L RAA. Last year's inspection report also indicated that sampling for THM's were not due again until the January-March quarter, 2025. In this inspection period, THM's were sampled for every quarter as per the regulation (n=3 samples) with results ranging from 5.5-9.9 ug/L. The running annual | | | |

average for trihalomethanes for the 2025-2026 inspection period was 7.2 ug/L which is under the ODWQS of 100 ug/L. On last years inspection report the ministry recommended that Mildmay sample for THM's at a variety of the system's extremities to gain representative samples of the entire system; the drinking water system did not apply this recommendation for the 2025/2026 inspection period.

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| Question ID | DWMR1088001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 13-7; | | | |
| Question: Were nitrate/nitrite sampling requirements prescribed by Schedule 13-7 of O. Reg. 170/03 met? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Nitrate/nitrite sampling requirements were met. All Nitrate/Nitrite sampling for the Mildmay Drinking Water System was completed at the pumphouse point of entry (POE) location within the 90 day timeframe as per 170/03 Schedule 13-7, with the cycle ranging from 84-91 days. Nitrite sample results were consistently at 0.003 mg/L which is under the ODWQS of 1 mg/L. Nitrate results varied from 4.03-4.20 mg/L for this inspection period, which is under the ODWQS of 10 mg/L. | | | |

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|---|-------------|----------------------|-------------|
| Question ID | DWMR1089001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 13-8; | | | |
| Question: Were sodium sampling requirements prescribed by Schedule 13-8 of O. Reg. 170/03 met? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Sodium sampling requirements were met. Sodium sampling is required every 60 months for this drinking water system as per 170/03 Schedule 13-8. Mildmay sampled for sodium in January of 2021, with a maximum result of 10.5 mg/L which is below the reporting limit of 20 mg/L. The system is due to sample in January 2026 which will be within the next inspection period. | | | |

| | | | |
|---|-------------|----------------------|-------------|
| Question ID | DWMR1090001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 13-9; | | | |
| Question: Where fluoridation is not practiced, were fluoride sampling requirements prescribed by Schedule 13-9 of O. Reg. 170/03 met? | | | |

Compliance Response(s)/Corrective Action(s)/Observation(s):

Fluoride sampling requirements were met.

Fluoride sampling is legislatively required every 60 months as per 170/03 Schedule 13-9. Mildmay DWS was most recently sampled for sodium in January 2021, within 58 months of the previous fluoride sampling event. The most recent fluoride result was 0.33 mg/L, which is 22% of the reportable threshold of 1.5 mg/L. Fluoride is due to be sampled next inspection period by January 2026.

| Question ID | DWMR1094001 | Question Type | Legislative |
|-------------|-------------|---------------|-------------|
|-------------|-------------|---------------|-------------|

Legislative Requirement(s):

SDWA | 31 | (1);

Question:

Were water quality sampling requirements imposed by the Municipal Drinking Water Licence and Drinking Water Works Permit met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Water quality sampling requirements were met.

The Municipal Drinking Water License for the Mildmay system imposes specific water quality sampling requirements, which based on the records for this inspection period, the system has met. The requirements listed in the License are as follows:

1. Sampling and testing for free chlorine residual shall be carried out by continuous monitoring equipment in accordance with the Ministry's Procedure for Disinfection of Drinking Water in Ontario.
2. At all times, CT provided shall be greater than or equal to the CT required to achieve the log removal credits assigned.
3. The chlorine contact simulator shall be checked on at least a monthly basis to ensure that it adequately simulates chlorine contact time in the chlorine contact pipe under maximum flow conditions. The flow rate of treated water through the chlorine contact simulator shall be within plus or minus 5% of 2.09 L/minute.
4. Treated water in the distribution system shall be sampled, tested and monitored for free chlorine residual concentration on a weekly basis at the site of the first consumer using manual grab samples.
5. Treated water at the end of the chlorine contact simulator shall be sampled, tested and monitored for free chlorine residual concentration at least twice a week, at least two days apart.

| Question ID | DWMR1060001 | Question Type | Legislative |
|-------------|-------------|---------------|-------------|
|-------------|-------------|---------------|-------------|

Legislative Requirement(s):

SDWA | 31 | (1);

| |
|---|
| <p>Question: Did the operations and maintenance manual(s) meet the requirements of the Municipal Drinking Water Licence?</p> |
| <p>Compliance Response(s)/Corrective Action(s)/Observation(s): The operations and maintenance manual(s) met the requirements of the Municipal Drinking Water Licence. The Mildmay Operations and Maintenance Manual meets the requirements of the Municipal Drinking Water License, yet the drinking water system is reminded to update the manual with a copy of their new MDWL that was issued on December 18th, 2024 (095-101, Issue No. 8).</p> |

| | | | |
|---|-------------|----------------------|-------------|
| Question ID | DWMR1062001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 7-5; | | | |
| Question: Did records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03. | | | |

| | | | |
|---|-------------|----------------------|-----|
| Question ID | DWMR1071001 | Question Type | BMP |
| Legislative Requirement(s): Not Applicable | | | |
| Question: Did the owner provide security measures to protect components of the drinking water system? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): The owner provided security measures to protect components of the drinking water system. Well 1 is located in a locked outbuilding beside the treatment facility, and Well 2 is located within the treatment facility. The treatment equipment, generator, diesel fuel, and Well 2 are all locked in a brick building that has no windows, proper signage, and is visited each day by an operator. | | | |

| | | | |
|---|-------------|----------------------|-------------|
| Question ID | DWMR1073001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 128/04 23 (1); | | | |

| |
|---|
| <p>Question: Was an overall responsible operator designated for all subsystems which comprise the drinking water system?</p> |
| <p>Compliance Response(s)/Corrective Action(s)/Observation(s): An overall responsible operator was designated for all subsystem.</p> <p>Scott Gowan is the ORO for this Drinking Water System. He holds a valid Water Treatment Class 2 certificate and a Water Distribution and Supply Subsystem Class 3 certificate.</p> |

| | | | |
|---|-------------|----------------------|-------------|
| Question ID | DWMR1074001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 128/04 25 (1); | | | |
| Question: Were operators-in-charge designated for all subsystems which comprise the drinking water system? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Operators-in-charge were designated for all subsystems. | | | |
| The Operator in Charge (OIC) for each day is noted in the pump house logbooks. | | | |

| | | | |
|---|-------------|----------------------|-------------|
| Question ID | DWMR1075001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 128/04 22; | | | |
| Question: Were all operators certified as required? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): All operators were certified as required. | | | |

| | | | |
|---|-------------|----------------------|-------------|
| Question ID | DWMR1076001 | Question Type | Legislative |
| Legislative Requirement(s): SDWA O. Reg. 170/03 1-2 (2); | | | |
| Question: Were adjustments to the treatment equipment only made by certified operators? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): Adjustments to the treatment equipment were only made by certified operators. | | | |

| Question ID | DWMR1117001 | Question Type | Information |
|--|-------------|---------------|-------------|
| Legislative Requirement(s): Not Applicable | | | |
| Question: Were there any other items related to the drinking water system that should be recognized in the report? | | | |
| Compliance Response(s)/Corrective Action(s)/Observation(s): The following items were noted as being relevant to the drinking water system: In 2022, it was recognized that the Mildmay DWS can no longer verify artesian conditions of the well by tap (to be taken every 90 days), as required by the Permit to Take Water (No. 5676-CBERKY), due to the water being above ground level but below the tap. The inspection report for the 2024-2025 review period highlights the resolution and current status of the requirement: "On November 15, 2022, the Supervisor of the Permit to Take Water unit and Director under Section 34.1 of the Ontario Water Resources Act, R.S.O. 1990, provided the following statement, 'At this time, I support the position presented by Scott Gowan that the alternate method of monitoring continues to demonstrate artesian conditions. It would be my position/recommendation that we communicate to the Permit Holder that they can continue to operate under the terms and conditions of their permit, provided that water levels remain artesian, as defined by above ground surface, and they continue to monitor water levels manually, every 90 days. Should water levels fall below ground surface, the Director should again be notified.' Operators continue to confirm the artesian condition of the well each month, which is more frequently than required (90 days)." | | | |

Appendix A

Inspection Rating Report (IRR)

Ministry of the Environment, Conservation and Parks - Inspection Summary Rating Record (Reporting Year - 2025-26)

| | |
|--|--|
| DWS Name: | MILDMAY DRINKING WATER SYSTEM |
| DWS Number: | 220002654 |
| DWS Owner: | THE CORPORATION OF THE MUNICIPALITY OF SOUTH BRUCE |
| Municipal Location: | SOUTH BRUCE |
| Regulation: | O.REG. 170/03 |
| DWS Category: | DW Municipal Residential |
| Type of Inspection: | Focused |
| Compliance Assessment Start Date: | Sep-4-2025 |
| Ministry Office: | Owen Sound District Office |

Maximum Risk Rating: 419

| Inspection Module | Non Compliance Risk (X out of Y) |
|--------------------------------|----------------------------------|
| Capacity Assessment | 0/30 |
| Certification and Training | 0/42 |
| Logbooks | 0/14 |
| Operations Manuals | 0/14 |
| Reporting & Corrective Actions | 0/21 |
| Source | 0/14 |
| Treatment Processes | 0/172 |
| Water Quality Monitoring | 0/112 |
| Overall - Calculated | 0/419 |

| | |
|--------------------------------|--------------|
| Inspection Risk Rating: | 0.00% |
|--------------------------------|--------------|

| | |
|---------------------------------|----------------|
| Final Inspection Rating: | 100.00% |
|---------------------------------|----------------|

Ministry of the Environment, Conservation and Parks - Detailed Inspection Rating Record (Reporting Year - 2025-26)

| | |
|--|--|
| DWS Name: | MILDMAY DRINKING WATER SYSTEM |
| DWS Number: | 220002654 |
| DWS Owner Name: | THE CORPORATION OF THE MUNICIPALITY OF SOUTH BRUCE |
| Municipal Location: | SOUTH BRUCE |
| Regulation: | O.REG. 170/03 |
| DWS Category: | DW Municipal Residential |
| Type of Inspection: | Focused |
| Compliance Assessment Start Date: | Sep-4-2025 |
| Ministry Office: | Owen Sound District Office |

All legislative requirements were met. No detailed rating scores.

Maximum Question Rating: 419

| | |
|-------------------------|-------|
| Inspection Risk Rating: | 0.00% |
|-------------------------|-------|

| | |
|---------------------------------|----------------|
| FINAL INSPECTION RATING: | 100.00% |
|---------------------------------|----------------|

Appendix B

**Risk Methodology Used for Measuring Municipal Residential Drinking Water
System Inspection Results**

APPLICATION OF THE RISK METHODOLOGY USED FOR MEASURING MUNICIPAL RESIDENTIAL DRINKING WATER SYSTEM INSPECTION RESULTS



The Ministry of the Environment (MOE) has a rigorous and comprehensive inspection program for municipal residential drinking water systems (MRDWS). Its objective is to determine the compliance of MRDWS with requirements under the Safe Drinking Water Act and associated regulations. It is the responsibility of the municipal residential drinking water system owner to ensure their drinking water systems are in compliance with all applicable legal requirements.

This document describes the risk rating methodology, which has been applied to the findings of the Ministry's MRDWS inspection

results since fiscal year 2008-09. The primary goals of this assessment are to encourage ongoing improvement of these systems and to establish a way to measure this progress.

MOE reviews the risk rating methodology every three years.

The Ministry's Municipal Residential Drinking Water Inspection Protocol contains 15 inspection modules consisting of approximately 100 regulatory questions. Those protocol questions are also linked to definitive guidance that ministry inspectors use when conducting MRDWS inspections.

ontario.ca/drinkingwater

The questions address a wide range of regulatory issues, from administrative procedures to drinking water quality monitoring. The inspection protocol also contains a number of non-regulatory questions.

A team of drinking water specialists in the ministry assessed each of the inspection protocol regulatory questions to determine the risk (not complying with the regulation) to the delivery of safe drinking water. This assessment was based on established provincial risk assessment principles, with each question receiving a risk rating referred to as the Question Risk Rating. Based on the number of areas where a system is deemed to be non-compliant during the inspection, and the significance of these areas to administrative, environmental, and health consequences, a risk-based inspection rating is calculated by the ministry for each drinking water system.

It is important to be aware that an inspection rating less than 100 per cent does not mean the drinking water from the system is unsafe. It shows areas where a system's operation can improve. The ministry works with owners and operators of systems to make sure they know what they need to do to achieve full compliance.

The inspection rating reflects the inspection results of the specific drinking water system for the reporting year. Since the methodology is applied consistently over a period of years, it serves as a comparative measure both provincially and in relation to the individual system. Both the drinking water system and the public are able to track the performance over time, which encourages continuous improvement and allows systems to identify specific areas requiring attention.

The ministry's annual inspection program is an important aspect of our drinking water safety net. The ministry and its partners share a common commitment to excellence and we continue to work toward the goal of 100 per cent regulatory compliance.

Determining Potential to Compromise the Delivery of Safe Water

The risk management approach used for MRDWS is aligned with the Government of Ontario's Risk Management Framework. Risk management is a systematic approach to identifying potential hazards, understanding the likelihood and consequences of the hazards, and taking steps to reduce their risk if necessary and as appropriate.

The Risk Management Framework provides a formula to be used in the determination of risk:

$$\text{RISK} = \text{LIKELIHOOD} \times \text{CONSEQUENCE}$$

(of the consequence)

Every regulatory question in the inspection protocol possesses a likelihood value (L) for an assigned consequence value (C) as described in **Table 1** and **Table 2**.

| TABLE 1: | |
|---|------------------|
| Likelihood of Consequence Occurring | Likelihood Value |
| 0% - 0.99% (Possible but Highly Unlikely) | L = 0 |
| 1 - 10% (Unlikely) | L = 1 |
| 11 - 49% (Possible) | L = 2 |
| 50 - 89% (Likely) | L = 3 |
| 90 - 100% (Almost Certain) | L = 4 |

| TABLE 2: | |
|-----------------------------------|-------------------|
| Consequence | Consequence Value |
| Medium Administrative Consequence | C = 1 |
| Major Administrative Consequence | C = 2 |
| Minor Environmental Consequence | C = 3 |
| Minor Health Consequence | C = 4 |
| Medium Environmental Consequence | C = 5 |
| Major Environmental Consequence | C = 6 |
| Medium Health Consequence | C = 7 |
| Major Health Consequence | C = 8 |

The consequence values (0 through 8) are selected to align with other risk-based programs and projects currently under development or in use within the ministry as outlined in **Table 2**.

The Question Risk Rating for each regulatory inspection question is derived from an evaluation of every identified consequence and its corresponding likelihood of occurrence:

- All levels of consequence are evaluated for their potential to occur
- Greatest of all the combinations is selected.

The Question Risk Rating quantifies the risk of non-compliance of each question relative to the others. Questions with higher values are those with a potentially more significant impact on drinking water safety and a higher likelihood of occurrence. The highest possible value would be 32 (4×8) and the lowest would be 0 (0×1).

Table 3 presents a sample question showing the risk rating determination process.

| TABLE 3: | | | | | | | |
|---|---|--|---------------------------------------|---|--|--|---------------------------------------|
| Does the Operator in Charge ensure that the equipment and processes are monitored, inspected and evaluated? | | | | | | | |
| Risk = Likelihood × Consequence | | | | | | | |
| C=1 | C=2 | C=3 | C=4 | C=5 | C=6 | C=7 | C=8 |
| Medium Administrative Consequence | Major Administrative Consequence | Minor Environmental Consequence | Minor Health Consequence | Medium Environmental Consequence | Major Environmental Consequence | Medium Health Consequence | Major Health Consequence |
| L=4 (Almost Certain) | L=1 (Unlikely) | L=2 (Possible) | L=3 (Likely) | L=3 (Likely) | L=1 (Unlikely) | L=3 (Likely) | L=2 (Possible) |
| R=4 | R=2 | R=6 | R=12 | R=15 | R=6 | R=21 | R=16 |

Application of the Methodology to Inspection Results

Based on the results of a MRDWS inspection, an overall inspection risk rating is calculated. During an inspection, inspectors answer the questions related to regulatory compliance and input their “yes”, “no” or “not applicable” responses into the Ministry’s Laboratory and Waterworks Inspection System (LWIS) database. A “no” response indicates non-compliance. The maximum number of regulatory questions asked by an inspector varies by: system (i.e., distribution, stand-alone); type of inspection (i.e., focused, detailed); and source type (i.e., groundwater, surface water).

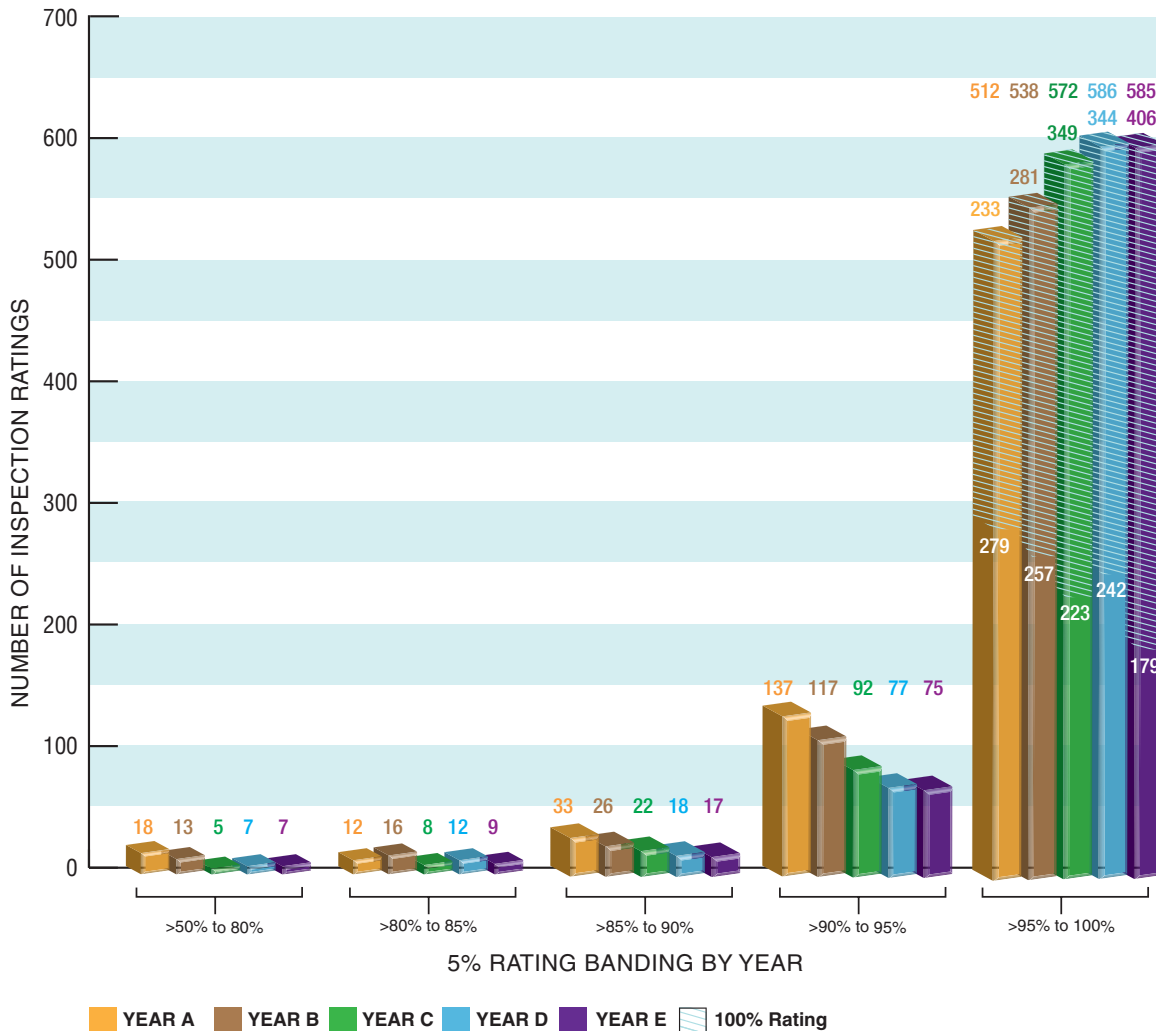
The risk ratings of all non-compliant answers are summed and divided by the sum of the risk ratings of all questions asked (maximum question rating). The resulting inspection risk rating (as a percentage) is subtracted from 100 per cent to arrive at the final inspection rating.

Application of the Methodology for Public Reporting

The individual MRDWS Total Inspection Ratings are published with the ministry's Chief Drinking Water Inspector's Annual Report.

Figure 1 presents the distribution of MRDWS ratings for a sample of annual inspections. Individual drinking water systems can compare against all the other inspected facilities over a period of inspection years.

Figure 1: Year Over Year Distribution of MRDWS Ratings



Reporting Results to MRDWS Owners/Operators

A summary of inspection findings for each system is generated in the form of an Inspection Rating Record (IRR). The findings are grouped into the 15 possible modules of the inspection protocol,

which would provide the system owner/operator with information on the areas where they need to improve. The 15 modules are:

- | | | | |
|-------------------------|---------------------------------|--|--|
| 1. Source | 5. Treatment Process Monitoring | 9. Logbooks | 13. Water Quality Monitoring |
| 2. Permit to Take Water | 6. Process Wastewater | 10. Contingency and Emergency Planning | 14. Reporting, Notification and Corrective Actions |
| 3. Capacity Assessment | 7. Distribution System | 11. Consumer Relations | 15. Other Inspection Findings |
| 4. Treatment Processes | 8. Operations Manuals | 12. Certification and Training | |

For further information, please visit www.ontario.ca/drinkingwater

Appendix C

Stakeholder Appendix

Key Reference and Guidance Material for Municipal Residential Drinking Water Systems

Many useful materials are available to help you operate your drinking water system. Below is a list of key materials owners and operators of municipal residential drinking water systems frequently use.

To access these materials online click on their titles below or use your web browser to search for their titles. Contact the Ministry if you need assistance or have questions at 1-866-793-2588 or waterforms@ontario.ca.

For more information on Ontario's drinking water visit www.ontario.ca/page/drinking-water



Click on the publication below to access it

- [Drinking Water System Profile Information Form - 012-2149E](#)
- [Laboratory Services Notification Form – 012-2148E](#)
- [Adverse Test Result Notification Form – 012-4444E](#)
- [Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils](#)
- [Procedure for Disinfection of Drinking Water in Ontario](#)
- [Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids](#)
- [Filtration Processes Technical Bulletin](#)
- [Ultraviolet Disinfection Technical Bulletin](#)
- [Guide for Applying for Drinking Water Works Permit Amendments, & License Amendments](#)
- [Certification Guide for Operators and Water Quality Analysts](#)
- [Training Requirements for Drinking Water Operator](#)
- [Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption](#)
- [Drinking Water System Contact List – 7128E01](#)
- [Ontario's Drinking Water Quality Management Standard - Pocket Guide](#)
- [2020 Watermain Disinfection Procedure](#)
- [List of Licensed Laboratories](#)