

Ministry of the Environment,  
Conservation and Parks  
Drinking Water and Environmental  
Compliance Division  
West Central Region  
Guelph District Office

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Ministère de l'Environnement de la  
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Division de la conformité en matière  
d'eau potable et d'environnement  
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September 15<sup>th</sup>, 2022

Mr. Mathew Aston  
Director of Public Works  
The Township of Wellington North  
PO Box 125  
7490 Sideroad 7W  
Kenilworth, Ontario  
N0G 2E0

Dear Mr. Aston,

**SUBJECT :** 2022 MECP Inspection Report – Mt. Forest Well Supply (DWS # 220000068)

Please find enclosed the Ministry of the Environment, Conservation and Parks ('MECP' or the 'Ministry') Inspection Report for the inspection of the Mount Forest WS, which was recently conducted.

The primary focus of this inspection was to confirm compliance with MECP legislation and control documents, as well as conformance with Ministry drinking water related policies for the inspection period. The Ministry is implementing a rigorous and comprehensive approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as water system management practices.

In order to measure individual inspection results, the Ministry has established an inspection compliance risk framework based on the principles of the Inspection, Investigation & Enforcement (II&E) Secretariat and advice of internal and risk experts. The Inspection Summary Rating Record (IRR) provides the Ministry, the system owner and the local Public Health Unit with a summarized quantitative measure of the drinking water system's annual inspection and regulated water quality testing performance. IRR ratings are published (for the previous inspection year) in the Ministry's Chief Drinking Water Inspector's Annual Report. Please note that due to a change in IT systems, the IRR cannot be generated at the same time as the inspection report. The IRR will be sent separately and prior to any public release; typically, within 1 -2 months of the completion of the inspection.

**2022 Mt. Forest WS Inspection Report**  
**Page 2.**

Section 19 of the Safe Drinking Water Act (Standard of Care) creates a number of obligations for individuals who exercise decision-making authority over municipal drinking water systems. Please be aware that the Ministry has encouraged such individuals, particularly municipal councillors, to take steps to be better informed about the drinking water systems over which they have decision-making authority.

These steps could include asking for a copy of this inspection report and a review of its findings. Further information about Section 19 can be found in "Taking Care of Your Drinking Water: A guide for members of municipal council" found on the Drinking Water Ontario website at:

<https://www.ontario.ca/page/taking-care-your-drinking-water-guide-members-municipal-councils>

If you have any questions regarding any other aspects of this report, please feel free to contact myself or the Drinking Water Supervisor (Lisa Williamson) at this office at (519) 546-9301.

Thankyou.

Yours truly,

A handwritten signature in black ink, appearing to read 'Rick Neubrand', written in a cursive style.

**Rick Neubrand**  
**Senior Environmental Officer / Inspector**  
Ministry of the Environment, Conservation and Parks  
Drinking Water and Environmental Compliance Division  
Guelph District Office

Encl: Reports (1)

CC : Ilona Feldmann – GRCA  
: Phil Wong- WDGHU  
: Sara McDougall – TWN  
: Corey Schmidt – TWN  
: Lisa Williamson - MECP



MOUNT FOREST DRINKING WATER SYSTEM  
393 PARKSIDE DR, WELLINGTON NORTH, ON, N0G 2L3  
**Inspection Report**

System Number: 220000068  
Entity: CORPORATION OF THE COUNTY  
OF WELLINGTON  
Inspection Start Date: 08/17/2022  
Inspection End Date: 09/01/2022  
Inspected By: Rick Neubrand  
Badge #: 773  
Inspected By: Lisa Williamson  
Badge #: 1205



(signature)



### **NON-COMPLIANCE/NON-CONFORMANCE ITEMS**

This should not be construed as a confirmation of full compliance with all potential applicable legal requirement and 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.

No non-compliance issues were found during the course of this inspection.

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:**

Question ID	MRDW1001001	Question Type	Information
<b>Question:</b>			
What was the scope of this inspection?			
Legislative Requirement	Not Applicable		
<b>Observation</b>			
<p>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.</p> <p>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" (O. Reg. 170/03). This inspection has been conducted pursuant to Section 81 of the SDWA.</p> <p>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. This inspection is an assessment of the Mount Forest drinking water system (DWS) which occurred on Aug 25th, 2022. This inspection included an on-site physical inspection of facilities, as well as a review of site logbooks, computer monitoring data, and sampling data.</p> <p>The Town of Mount Forest is a small rural community with a population of approximately 5040. It is located approximately 58 km north of the City of Guelph, and 77 km northwest of the City of Brampton.</p> <p>The DWS for the Town of Mount Forest is comprised of four wells, four pumphouses, one booster pumping station (within the Well 3 pumphouse (PH)) and one water tower. Treatment consists of chlorination for disinfection .</p> <p>The review period for this inspection is from October 27, 2021 to August 25, 2022.</p> <p>This DWS is classified under O. Regulation 170/03 (Reg 170) as a Large Municipal Residential (LMR) DWS.</p>			

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<b>Question ID</b>	MRDW1000001	<b>Question Type</b>	Information
<b>Question:</b> Does this drinking water system provide primary disinfection?			
<b>Legislative Requirement</b>	Not Applicable		
<b>Observation</b> This Drinking Water System provides for both primary and secondary disinfection and distribution of water. Primary disinfection occurs in 4 pumphouses in the DWS and consists of chlorination utilizing sodium hypochlorite.			

<b>Question ID</b>	MRDW1018001	<b>Question Type</b>	Legislative
<b>Question:</b> Has the owner ensured that all equipment is installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?			
<b>Legislative Requirement</b>	SDWA   31   (1);		
<b>Observation</b> The owner had ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.			

<b>Question ID</b>	MRDW1020001	<b>Question Type</b>	Legislative
<b>Question:</b> Is the owner/operating authority able to demonstrate that, when required during the inspection period, Form 1 documents were prepared in accordance with their Drinking Water Works Permit?			
<b>Legislative Requirement</b>	SDWA   31   (1);		
<b>Observation</b> The owner/operating authority was in compliance with the requirement to prepare Form 1 documents as required by their Drinking Water Works Permit during the inspection period. One form 1 was completed for Queen Street East main reconstruction.			

<b>Question ID</b>	MRDW1021001	<b>Question Type</b>	Legislative
<b>Question:</b>			

Is the owner/operating authority able to demonstrate that, when required during the inspection period, Form 2 documents were prepared in accordance with their Drinking Water Works Permit?	
<b>Legislative Requirement</b>	SDWA   31   (1);
<b>Observation</b>	
The owner/operating authority was in compliance with the requirement to prepare Form 2 documents as required by their Drinking Water Works Permit during the inspection period. One form 2 was completed for a booster pump variable frequency drive (VFD) replacement at the well 3 pumphouse.	

<b>Question ID</b>	MRDW1114001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Does the owner have evidence that, when required, all legal owners associated with the DWS were notified of the requirements of the Licence & Permit?			
<b>Legislative Requirement</b>	SDWA   31   (1);		
<b>Observation</b>			
The owner had evidence that required notifications to all legal owners associated with the Drinking Water System had been made during the inspection period. The owner has advised that any subdivision developer's engineer must comply with the requirements of the Ontario Safe Drinking Water Act (SDWA) and all applicable regulations made in accordance to the act, including but not limited to the Drinking Water Works Permits (DWWP) and the Municipal Drinking Water Licence (MDWL). The DWWP and MDWL are available from the Township's Water Department and it is the responsibility of the developer's engineer to obtain copies as necessary.			

<b>Question ID</b>	MRDW1025001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Were all parts of the drinking water system that came in contact with drinking water (added, modified, replaced or extended) disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?			
<b>Legislative Requirement</b>	SDWA   31   (1);		
<b>Observation</b>			
All parts of the drinking water system were disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit. Staff have advised that they follow all required American Water Works Association (AWWA) and 'Procedure for Disinfection' requirements.			



<b>Question ID</b>	MRDW1024001	<b>Question Type</b>	Legislative
<b>Question:</b> Do records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated as required?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   1-2   (2);		
<b>Observation</b>			
Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated so that at all times and all locations in the distribution system the chlorine residual was never less than 0.05 mg/l free or 0.25 mg/l combined.			

<b>Question ID</b>	MRDW1038001	<b>Question Type</b>	Legislative
<b>Question:</b> Is continuous monitoring equipment that is being utilized to fulfill O. Reg. 170/03 requirements performing tests for the parameters with at least the minimum frequency specified in the Table in Schedule 6 of O. Reg. 170/03 and recording data with the prescribed format?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   6-5   (1)1-4;		
<b>Observation</b>			
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 specified in the Table in Schedule 6 of O. Reg. 170/03 and recording data with the prescribed format. Data is recorded at both 1min and 5 min intervals. In reviewing Supervisory Control and Data Acquisition (SCADA) system data, the owner provided backup data from on-site historians for any omissions from broadcast channel data as well.			

<b>Question ID</b>	MRDW1035001	<b>Question Type</b>	Legislative
<b>Question:</b> Are operators examining continuous monitoring test results and are they examining the results within 72 hours of the test?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   6-5   (1)1-4; SDWA   O. Reg. 170/03   6-5   (1)5-10;		
<b>Observation</b>			
Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test. Operators check the SCADA system daily and write			

notes in the site logbooks of their reviews. As well, the SCADA system creates a daily printout (at main office) which the operators check and sign as well. If issues arise, the operators print out the trending of the data and label such trending according to logbook notes.

<b>Question ID</b>	MRDW1037001	<b>Question Type</b>	Legislative
<b>Question:</b> Are all continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or MDWL or DWWP or order, equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 6?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   6-5   (1)1-4; SDWA   O. Reg. 170/03   6-5   (1)5-10; SDWA   O. Reg. 170/03   6-5   (1.1);		
<b>Observation</b>			
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, were equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 6. Low chlorine residual alarms are programmed for both pre-contact piping and post-chlorine contact piping to alert the operator if the chlorine residual level drops. If the pre or post-contact piping FCR levels drop below 0.65 mg/L, a remote alarm will occur and the well pumps are programmed to lock out.			

<b>Question ID</b>	MRDW1040000	<b>Question Type</b>	Legislative
<b>Question:</b> Are all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   6-5   (1)1-4; SDWA   O. Reg. 170/03   6-5   (1)5-10;		
<b>Observation</b>			
All continuous analysers were calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation. Portable colourimeters are used to calibrate the FCR continuous analyzers. Portable colourimeters are professionally calibrated annually and were last calibrated on February 8, 2022. The FCR online analyzers were last professionally checked on January 25, 2022. All were found to be operating within acceptable standards.			

<b>Question ID</b>	MRDW1108001	<b>Question Type</b>	Legislative
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<b>Question:</b>	
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, an Order, MDWL, or DWWP issued under Part V, SDWA, has triggered an alarm or an automatic shut-off, did a qualified person respond in a timely manner and take appropriate actions?	
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   6-5   (1)1-4; SDWA   O. Reg. 170/03   6-5   (1)5-10; SDWA   O. Reg. 170/03   6-5   (1.1);
<b>Observation</b>	
Where required continuous monitoring equipment used for the monitoring of chlorine residual and/or turbidity triggered an alarm or an automatic shut-off, a qualified person responded in a timely manner and took appropriate actions.	

<b>Question ID</b>	MRDW1033001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Is the secondary disinfectant residual measured as required for the large municipal residential distribution system?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   7-2   (3); SDWA   O. Reg. 170/03   7-2   (4);		
<b>Observation</b>			
The secondary disinfectant residual was measured as required for the large municipal residential distribution system. Distribution system free FCRs were measured on a daily basis (grab samples) during the inspection review period. Sampling locations varied within the distribution system.			

<b>Question ID</b>	MRDW1099001	<b>Question Type</b>	Information
<b>Question:</b>			
Do records show that all water sample results taken during the inspection review period did not exceed the values of tables 1, 2 and 3 of the Ontario Drinking Water Quality Standards (O. Reg. 169/03)?			
<b>Legislative Requirement</b>	Not Applicable		
<b>Observation</b>			
Records showed that all water sample results taken during the inspection review period did not exceed the values of tables 1, 2 and 3 of the Ontario Drinking Water Quality Standards (O. Reg. 169/03).			

<b>Question ID</b>	MRDW1081001	<b>Question Type</b>	Legislative
<b>Question:</b> For LMR systems, are all microbiological water quality monitoring requirements for distribution samples being met?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   10-2   (1); SDWA   O. Reg. 170/03   10-2   (2); SDWA   O. Reg. 170/03   10-2   (3);		
<b>Observation</b> All microbiological water quality monitoring requirements prescribed by legislation for distribution samples in a large municipal residential system were being met. Schedule 10 of Reg 170 requires this site to be taking at least 12 distribution samples per month. The owner was averaging 16 - 20 samples per month.			

<b>Question ID</b>	MRDW1096001	<b>Question Type</b>	Legislative
<b>Question:</b> Do records confirm that chlorine residual tests are being conducted at the same time and at the same location that microbiological samples are obtained?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   6-3   (1);		
<b>Observation</b> Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.			

<b>Question ID</b>	MRDW1086001	<b>Question Type</b>	Legislative
<b>Question:</b> Are all haloacetic acid water quality monitoring requirements prescribed by legislation conducted within the required frequency and at the required location?			
<b>Legislative Requirement</b>	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);		
<b>Observation</b> All haloacetic acid water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location. HAAs were sampled last in the distribution system on the following dates: - Aug 16, 2021 - Nov 8, 2021 - Feb 14, 2022			

and  
- May 9, 2022

All samples were found to be at 5.3 ug/L, same as the last inspection.

HAA's are required to be sampled every calendar quarter.

<b>Question ID</b>	MRDW1087001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Have all trihalomethane water quality monitoring requirements prescribed by legislation been conducted within the required frequency and at the required location?			
<b>Legislative Requirement</b>	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);		
<b>Observation</b>			
All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location. THMs were sampled last in the distribution system on the following dates: - Aug 16, 2021 - Nov 8, 2021 - Feb 14, 2022 and - May 9, 2022  The Annual Running Average (ARA) was found to be 20.25 ug/L.  This sample parameter is required to be sampled every 3 months.			

<b>Question ID</b>	MRDW1113000	<b>Question Type</b>	Legislative
<b>Question:</b>			
Have all changes to the system registration information been provided to the Ministry within ten (10) days of the change?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   10.1   (3);		
<b>Observation</b>			
All changes to the system registration information were provided within ten (10) days of the change.			

<b>Question ID</b>	MRDW1059000	<b>Question Type</b>	Legislative
<b>Question:</b> Do the operations and maintenance manuals contain plans, drawings and process descriptions sufficient for the safe and efficient operation of the system?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 128/04   28;		
<b>Observation</b>			
The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.			

<b>Question ID</b>	MRDW1060000	<b>Question Type</b>	Legislative
<b>Question:</b> Do the operations and maintenance manuals meet the requirements of the DWWP and MDWL issued under Part V of the SDWA?			
<b>Legislative Requirement</b>	SDWA   31   (1);		
<b>Observation</b>			
The operations and maintenance manuals met the requirements of the Drinking Water Works Permit and Municipal Drinking Water Licence issued under Part V of the SDWA.			

<b>Question ID</b>	MRDW1061001	<b>Question Type</b>	Legislative
<b>Question:</b> Are logbooks properly maintained and contain the required information?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 128/04   27   (1); SDWA   O. Reg. 128/04   27   (2); SDWA   O. Reg. 128/04   27   (3); SDWA   O. Reg. 128/04   27   (4); SDWA   O. Reg. 128/04   27   (5); SDWA   O. Reg. 128/04   27   (6); SDWA   O. Reg. 128/04   27   (7);		
<b>Observation</b>			
Logbooks were properly maintained and contained the required information. The legibility of notes by operators has improved since last inspection.			

<b>Question ID</b>	MRDW1062001	<b>Question Type</b>	Legislative
<b>Question:</b> Do records or other record keeping mechanisms confirm that operational testing not			

performed by continuous monitoring equipment is being done by a certified operator, water quality analyst, or person who meets the requirements of O. Reg. 170/03 7-5?

<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   7-5;
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**Observation**

Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was being done by a certified operator, water quality analyst, or person who suffices the requirements of O. Reg. 170/03 7-5.

<b>Question ID</b>	MRDW1071000	<b>Question Type</b>	BMP
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**Question:**

Has the owner provided security measures to protect components of the drinking water system?

<b>Legislative Requirement</b>	Not Applicable
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**Observation**

The owner had provided security measures to protect components of the drinking water system. Pumphouses are well lit and have remote notification security systems in place. Some pumphouses are protected within fenced-in compounds. All pumphouses also have updated SCADA systems in place which also provide remote notifications of any process upsets.

<b>Question ID</b>	MRDW1073001	<b>Question Type</b>	Legislative
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**Question:**

Has the overall responsible operator been designated for all subsystems which comprise the drinking water system?

<b>Legislative Requirement</b>	SDWA   O. Reg. 128/04   23   (1);
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**Observation**

The overall responsible operator had been designated for each subsystem.

<b>Question ID</b>	MRDW1074001	<b>Question Type</b>	Legislative
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**Question:**

Have operators-in-charge been designated for all subsystems for which comprise the drinking water system?

<b>Legislative Requirement</b>	SDWA   O. Reg. 128/04   25   (1);
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<b>Observation</b>
Operators-in-charge had been designated for all subsystems which comprise the drinking water system.

<b>Question ID</b>	MRDW1075001	<b>Question Type</b>	Legislative
<b>Question:</b> Do all operators possess the required certification?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 128/04   22;		
<b>Observation</b>			
All operators possessed the required certification.			

<b>Question ID</b>	MRDW1076001	<b>Question Type</b>	Legislative
<b>Question:</b> Do only certified operators make adjustments to the treatment equipment?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   1-2   (2);		
<b>Observation</b>			
Only certified operators made adjustments to the treatment equipment.			

<b>Question ID</b>	MRDW1007001	<b>Question Type</b>	Legislative
<b>Question:</b> Is the owner maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   1-2   (1);		
<b>Observation</b>			
<p>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. All wells are located within pumphouses having concrete floors surrounding the wellheads, so are protected from external elements.</p> <p>The original water well records (WWR) for Well 3 (WWR #6701749), Well 4 (WWR #6701750), Well 5 (WWR #6703148), and Well 6 (WWR #6706988), did not include information on annular seals. Records for modifications made to Well 3 in 2005 show that the bottom of the well was sealed with 'benseal' and cement from 73.8 m to 123 m. WWR #2515102 shows partial abandonment of Well 5, with pea stones and hole plug from 140 ft</p>			



to 394 ft. Raw water sample results do not indicate the influence of surface water for any of the production wells.

Sections 16.2.8 - 16.2.9 of Schedule B in the MDWL requires that an inspection schedule for all wells associated with the drinking water system be included in the operations and maintenance manual. There must be inspection and maintenance procedures for the entire well structure of each well including all above and below grade components, and remedial action plans for situations where an inspection indicates non-compliance with respect to regulatory requirements and/or risk to raw well water quality.

The Township of Wellington North has established a well inspection program that includes inspections of the production wells on an annual basis. A detailed assessment of the wells, including below grade components, is to be scheduled approximately every 10 years, if feasible. Below grade assessments were last completed for Wells 3, 4, 5, and 6 in 2016, 2012, 2018, and 2011, respectively.

<b>Question ID</b>	MRDW1009001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Are measures in place to protect the groundwater and/or GUDI source in accordance with any MDWL and DWWP issued under Part V of the SDWA?			
<b>Legislative Requirement</b>	SDWA   31   (1);		
<b>Observation</b>			
Measures were in place to protect the groundwater and/or GUDI source in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit issued under Part V of the SDWA.			

<b>Question ID</b>	MRDW1014001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Is there sufficient monitoring of flow as required by the MDWL or DWWP issued under Part V of the SDWA?			
<b>Legislative Requirement</b>	SDWA   31   (1);		
<b>Observation</b>			
There was sufficient monitoring of flow as required by the Municipal Drinking Water Licence or Drinking Water Works Permit issued under Part V of the SDWA. Each well is equipped with one flow meter, which serves to measure both the raw and treated water volumes, since the treatment system is simple and water basically flows directly from the wells through to the contact mains, after being injected with sodium hypochlorite for disinfection.			

<b>Question ID</b>	MRDW1016001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Is the owner in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the MDWL issued under Part V of the SDWA?			
<b>Legislative Requirement</b>	SDWA   31   (1);		
<b>Observation</b>			
<p>The owner was in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the Municipal Drinking Water Licence issued under Part V of the SDWA. Schedule C, Section 1.0 of the MDWL lists the following rated capacities for the wells in the Mount Forest DWS:</p> <p>Wellhouse 3 - 1,637 m<sup>3</sup>/day                  Wellhouse 4 - 1,964 m<sup>3</sup>/day                  Wellhouse 5 - 3,928 m<sup>3</sup>/day                  Wellhouse 6 - 3,928 m<sup>3</sup>/day</p> <p>Records provided indicate these rated capacities were not exceeded during the inspection review period, except during momentary periods of routine maintenance, water main flushing or water main repairs / breaks.</p>			

<b>Question ID</b>	MRDW1023001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Do records indicate that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a DWWP and/or MDWL issued under Part V of the SDWA at all times that water was being supplied to consumers?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   1-2   (2);		
<b>Observation</b>			
<p>Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities required under O. Reg. 170/03 or a Drinking Water Works Permit and/or Municipal Drinking Water Licence issued under Part V of the SDWA at all times that water was being supplied to consumers. The Mount Forest DWS obtains water from ground water sources. The treatment system consists of disinfection using chlorine (sodium hypochlorite) and is capable of achieving an overall performance that provides, at a minimum, 2-log (99%) removal or inactivation of viruses prior to the first consumer. An examination of records indicated that proper treatment appeared to have occurred during the inspection period.</p>			

<b>Question ID</b>	MRDW1030000	<b>Question Type</b>	Legislative
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<b>Question:</b>	
Is primary disinfection chlorine monitoring being conducted at a location approved by MDWL and/or DWWP issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved?	
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   7-2   (1); SDWA   O. Reg. 170/03   7-2   (2);
<b>Observation</b>	
Primary disinfection chlorine monitoring was conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved. All chlorination injection points are in the main piping header before water gets directed to the contact chambers outside the pumphouses. Free chlorine residuals are monitored at each of the pumphouses by two continuous analyzers. The first being at the inlet of the contact main (pre-chlorination continuous analyzer) and the second at the outlet of the contact main (post-chlorination continuous analyzer). The post chlorine analyzers are considered as the ones for regulatory assessment purposes.	

<b>Question ID</b>	MRDW1083001	<b>Question Type</b>	Legislative
<b>Question:</b>			
For LMR systems, are all microbiological water quality monitoring requirements for treated samples being met?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   10-3;		
<b>Observation</b>			
All microbiological water quality monitoring requirements prescribed by legislation for treated samples were being met. Schedule 10 of Reg 170 requires this site to be taking four treated water samples per week (one from each pumphouse). The owner was performing this sampling.			

<b>Question ID</b>	MRDW1084001	<b>Question Type</b>	Legislative
<b>Question:</b>			
Are all inorganic water quality monitoring requirements prescribed by legislation conducted within the required frequency?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   13-2;		
<b>Observation</b>			
All inorganic water quality monitoring requirements prescribed by legislation were conducted within the required frequency. Inorganic parameters were previously sampled			

for on January 11, 2016 and January 14, 2019 at all 4 pumphouses. The latest sampling occurred on January 24, 2022. No exceedances were noted. Inorganic parameters are required to be tested once every 36 months.

<b>Question ID</b>	MRDW1088000	<b>Question Type</b>	Legislative
<b>Question:</b>			
Are all nitrate/nitrite water quality monitoring requirements prescribed by legislation conducted within the required frequency for the DWS?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   13-7;		
<b>Observation</b>			
<p>All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency for the DWS. Nitrates / Nitrites were sampled last at the treated water entry points of both pumphouses on the following dates:</p> <ul style="list-style-type: none"> <li>- Aug 16, 2021</li> <li>- Nov 8, 2021</li> <li>- Feb 14, 2022</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>- May 9, 2022.</li> </ul> <p>The nitrate levels ranged from 1.92 to 2.12 mg/L. The limit is 10 mg/L.</p> <p>This parameter is required to be sampled for every three months.</p>			

<b>Question ID</b>	MRDW1089000	<b>Question Type</b>	Legislative
<b>Question:</b>			
Are all sodium water quality monitoring requirements prescribed by legislation conducted within the required frequency?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   13-8;		
<b>Observation</b>			
<p>All sodium water quality monitoring requirements prescribed by legislation were conducted within the required frequency. Sodium was last sampled at all pumphouses on September 10, 2018, and results exceeded the 20 mg/L reportable limit at well 5 (61.2 mg/L) and well 3 (21.3 mg/L). An adverse water quality incident (AWQI) was reported (# 142905), with resampling conducted on September 18, 2018. Resample results confirmed the levels were greater than 20 mg/L (63.4 and 21.1 mg/L) at wellhouse 3 and 5. Sodium levels at Well 4 and Well 6 were 12.3 mg/L and 11.7 mg/L respectively.</p> <p>Sodium levels are required to be tested once every 5 years.</p>			

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<b>Question ID</b>	MRDW1090000	<b>Question Type</b>	Legislative
<b>Question:</b> Where fluoridation is not practiced, are all fluoride water quality monitoring requirements prescribed by legislation conducted within the required frequency?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   13-9;		
<b>Observation</b>			
All fluoride water quality monitoring requirements prescribed by legislation were conducted within the required frequency. Sampling for fluoride was last conducted at all pumphouses on September 9, 2013 and September 10, 2018. No exceedances were noted. The maximum level noted was 1.34 mg/L. The limit is 1.5 mg/L. Fluoride is required to be tested once every 5 years.			

<b>Question ID</b>	MRDW1085001	<b>Question Type</b>	Legislative
<b>Question:</b> Are all organic water quality monitoring requirements prescribed by legislation conducted within the required frequency?			
<b>Legislative Requirement</b>	SDWA   O. Reg. 170/03   13-4   (1); SDWA   O. Reg. 170/03   13-4   (2); SDWA   O. Reg. 170/03   13-4   (3);		
<b>Observation</b>			
All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency. Organic parameters were previously sampled for on January 11, 2016 and January 14, 2019 at all 4 pumphouses. The latest sampling occurred on January 24, 2022. No exceedances were noted. Organic parameters are required to be tested once every 36 months.			

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**DWS – Stakeholder Guidance Material Reference Sheet**

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# 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 in the table 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](mailto:waterforms@ontario.ca).

For more information on Ontario's drinking water visit [www.ontario.ca/drinkingwater](http://www.ontario.ca/drinkingwater)



PUBLICATION TITLE	PUBLICATION NUMBER
<b>FORMS:</b> Drinking Water System Profile Information Laboratory Services Notification Adverse Test Result Notification	012-2149E 012-2148E 012-4444E
Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils	Website
Procedure for Disinfection of Drinking Water in Ontario	Website
Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids	Website
Filtration Processes Technical Bulletin	Website
Ultraviolet Disinfection Technical Bulletin	Website
Guide for Applying for Drinking Water Works Permit Amendments, & License Amendments	Website
Certification Guide for Operators and Water Quality Analysts	Website
Guide to Drinking Water Operator Training Requirements	9802E
Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption	Website
Drinking Water System Contact List	7128E01
Ontario's Drinking Water Quality Management Standard - Pocket Guide	Website
Watermain Disinfection Procedure	Website
List of Licensed Laboratories	Website



# Principaux guides et documents de référence sur les réseaux résidentiels municipaux d'eau potable

De nombreux documents utiles peuvent vous aider à exploiter votre réseau d'eau potable. Vous trouverez ci-après une liste de documents que les propriétaires et exploitants de réseaux résidentiels municipaux d'eau potable utilisent fréquemment. Pour accéder à ces documents en ligne, cliquez sur leur titre dans le tableau ci-dessous ou faites une recherche à l'aide de votre navigateur Web. Communiquez avec le ministère au 1-866-793-2588, ou encore à [waterforms@ontario.ca](mailto:waterforms@ontario.ca) si vous avez des questions ou besoin d'aide.



Pour plus de renseignements sur l'eau potable en Ontario, consultez le site [www.ontario.ca/eaupotable](http://www.ontario.ca/eaupotable)

TITRE DE LA PUBLICATION	NUMÉRO DE PUBLICATION
Renseignements sur le profil du réseau d'eau potable	012-2149F
Avis de demande de services de laboratoire	012-2148F
Avis de résultats d'analyse insatisfaisants et de règlement des problèmes	012-4444F
Prendre soin de votre eau potable - Un guide destiné aux membres des conseils municipaux	Site Web
Marche à suivre pour désinfecter l'eau potable en Ontario	Site Web
Stratégies pour minimiser les trihalométhanes et les acides haloacétiques de sous-produits de désinfection	Site Web
Filtration Processes Technical Bulletin (en anglais seulement)	Site Web
Ultraviolet Disinfection Technical Bulletin (en anglais seulement)	Site Web
Guide de présentation d'une demande de modification du permis d'aménagement de station de production d'eau potable	Site Web
Guide sur l'accréditation des exploitants de réseaux d'eau potable et des analystes de la qualité de l'eau de réseaux d'eau potable	Site Web
Guide sur les exigences relatives à la formation des exploitants de réseaux d'eau potable	9802F
Échantillonnage et analyse du plomb dans les collectivités : échantillonnage normalisé ou réduit et admissibilité à l'exemption	Site Web
Liste des personnes-ressources du réseau d'eau potable	Site Web
L'eau potable en Ontario - Norme de gestion de la qualité - Guide de poche	Site Web
Procédure de désinfection des conduites principales	Site Web
Laboratoires autorisés	Site Web