

Ministry of the Environment,  
Conservation & Parks

Ministère de l'Environnement, de la Protection de  
la nature et des Parcs

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June 8, 2023

Sent by Email: cao@kincardine.ca

The Municipality of Kincardine  
1475 Concession 5,  
Kincardine ON  
N2Z 2X6

**Attention:** Jillene Bellchamber-Glazier CAO

Re: Underwood Drinking Water System 2023/2024 Inspection Report

Drinking Water Licence #088-103

Drinking Water Works Permit #088-203

Please find enclosed the Drinking Water System Inspection Report for the Underwood Drinking Water System (DWS#220007052). This year's announced inspection was conducted on April 13, 2023.

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 [www.ontario.ca/drinkingwater](http://www.ontario.ca/drinkingwater).

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/external risk experts. The Inspection Summary Rating Record (IRR) provides the Ministry, the system owner and the local Public Health Units with a summarized quantitative measure of the drinking water system's annual inspection and regulated water quality testing performance.

Please note that due to a change in IT systems, the Inspection Rating Report (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 month of the completion of the inspection).

IRR ratings are published (for the previous inspection year) in the Ministry's Chief Drinking Water Inspectors' Annual Report. If you have any questions or concerns regarding the rating, please contact John Ritchie, District Manager, at (519) 377-1058.

Should you have any questions regarding the content of the enclosed report, please do not hesitate to contact me.

Yours truly,



Shayne Finlay  
Water Compliance Inspector  
Phone: 519-270-8955  
e-mail: shayne.finlay@ontario.ca

Enclosure

ec:

Dr. Ian Arra, Medical Officer of Health, Grey-Bruce Health Unit  
John Ritchie , Drinking Water Inspections Program Supervisor  
Carl Seider, Project Manager, Source Water Protection Program  
Lisa Crimmings, Compliance Officer, Municipality of Kincardine  
Jerry Jez, Overall Responsible Operator, Municipality of Kincardine  
Adam Weishar, Director of Public Works, Municipality of Kincardine  
File SI-BR-KB-C7-540 (2023)



UNDERWOOD DRINKING WATER SYSTEM  
1240 CONCESSION RD 6, KINCARDINE, ON, N0G 2T0  
**INSPECTION REPORT**

System Number: 220007052  
Entity: CORPORATION OF THE  
MUNICIPALITY OF KINCARDINE  
Inspection Start Date: April 13, 2023  
Inspection End Date: June 08, 2023  
Inspected By: Shayne Finlay  
Badge #: 1285  
Inspected By: John Ritchie  
Badge #: 1157

*Shayne Finlay*  
(signature)

## **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

Question ID	DWMR1001000	Question Type	Information
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> What was the scope of this inspection?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</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.</p> <p>The inspection review period is from April 20 ,2022 - April 13, 2023.</p>			

Question ID	DWMR1000000	Question Type	Information
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Does this drinking water system provide primary disinfection?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> <p>This drinking water system provides for both primary and secondary disinfection and distribution of water.</p> <p>Sodium hypochlorite (NSF certified) is used for primary disinfection.</p>			

Question ID	DWMR1007000	Question Type	Legislative
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**Legislative Requirement(s):**

SDWA | O. Reg. 170/03 | 1-2 | (1);

**Question:**

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?

**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 well casing is extended at least 40 cm above ground . The well is located in a residential neighborhood with septic systems. Failing septic systems could pose a risk to the groundwater quality.

Question ID	DWMR1009000	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   31   (1);</p>			
<p><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?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</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.</p> <p>The Underwood Municipal Drinking Water Licence requires the following to be contained within the operations manual:</p> <ol style="list-style-type: none"> <li>1. An inspection schedule for all wells associated with the drinking water system, including all production wells, standby wells, test wells and monitoring wells;</li> <li>2. A well inspection and maintenance procedures for the entire well structure of each well including all above and below grade well components; and</li> <li>3. A remedial action plan for situations where an inspection indicates noncompliance with respect to regulatory requirements and/or risk to raw well water quality.</li> </ol>			

Question ID	DWMR1014000	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   31   (1);</p>			
<p><b>Question:</b> Is there sufficient monitoring of flow as required by the MDWL or DWWP issued under Part V of the SDWA?</p>			



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

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.

<b>Question ID</b>	DWMR1016000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> 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.  The maximum daily volume of treated water that flows from the treatment system to the distribution system shall not exceed the rated capacity of 90.8 m <sup>3</sup> /d, this has been met.			

<b>Question ID</b>	DWMR1018000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</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>	DWMR1021000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<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?			

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

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.

Question ID	DWMR1025000	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   31   (1);</p>			
<p><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?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</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.</p>			

Question ID	DWMR1023000	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);</p>			
<p><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?</p>			

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

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.

For ground water systems, the treatment process must, at a minimum, consist of disinfection and must be credited with achieving an overall performance that provides, at a minimum 2-log (99%) removal or inactivation of viruses prior to the first consumer. The Underwood drinking water system uses the addition of liquid sodium hypochlorite passing through a contact chamber to achieve primary disinfection.

The minimum free chlorine residual required to meet the Concentration X Time (CT) value of 3 is 0.13 mg/L. The Underwood drinking water system has nearly 24 minutes of contact time during times of maximum well pumping. The drinking water system provides an alarm when the point of entry free chlorine residual falls below 0.30 mg/L which closes the solenoid valve ensuring CT is met at all times .

The Underwood MDWL requires that at all times, CT provided shall be greater than or equal to the CT required to achieve the log removal credits assigned. A review of the drinking water records provided show the minimum requirements were met.

It is recommended the owner test the low chlorine lockout on a monthly basis.

<b>Question ID</b>	DWWMR1024000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   1-2   (2);			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</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>	DWWMR1034000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   7-2   (5); SDWA   O. Reg. 170/03   7-2   (6);			
<b>Question:</b>			
Is the secondary disinfectant residual measured as required for the small municipal residential distribution system?			

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

The secondary disinfectant residual was measured as required for the small municipal residential distribution system.

Records provided by the owner and reviewed during the inspection indicate that the owner complied with these requirements, testing free chlorine residual for secondary disinfection monitoring purposes 7 days each week.

<b>Question ID</b>	DWMMR1030000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   7-2   (1); SDWA   O. Reg. 170/03   7-2   (2);			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</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.			

<b>Question ID</b>	DWMMR1035000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   6-5   (1)1-4; SDWA   O. Reg. 170/03   6-5   (1)5-10;			
<b>Question:</b>			
Are operators examining continuous monitoring test results and are they examining the results within 72 hours of the test?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b>			
Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test.			

<b>Question ID</b>	DWMMR1038000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   6-5   (1)1-4;			
<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?			

**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 specified in the Table in Schedule 6 of O. Reg. 170/03 and recording data with the prescribed format.

<b>Question ID</b>	DWMR1037000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</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>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>Compliance Response(s)/Corrective Action(s)/Observation(s):</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.			

<b>Question ID</b>	DWMR1040000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   6-5   (1)1-4; SDWA   O. Reg. 170/03   6-5   (1)5-10;			
<b>Question:</b>			
Are all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b>			
All continuous analysers were calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation.			
Routine analyzer maintenance, accuracy certification checks and calibrations are conducted by the operator which are recorded in plant logs. Annual analyzer calibrations were performed by Nichols Water Service on May 26, 2022.			

<b>Question ID</b>	DWMR1108000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</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);			

**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, 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?

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

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.

Question ID	DWMR1099000	Question Type	Information
<b>Legislative Requirement(s):</b> Not Applicable			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</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).			

Question ID	DWMR1082000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   11-2   (1); SDWA   O. Reg. 170/03   11-2   (2); SDWA   O. Reg. 170/03   11-2   (6);			
<b>Question:</b> For SMR systems, are all microbiological water quality monitoring requirements for distribution samples prescribed by legislation being met?			

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

All microbiological water quality monitoring requirements prescribed by legislation for distribution samples in a small municipal residential system were being met.

All microbiological water quality monitoring requirements for distribution samples were being met. For SMR DWS, distribution bacteriological samples shall be taken:

- 1) once every 2 weeks provided that the system is in compliance with Schedule 1 of O. Reg. 170/03, or
- 2) one sample every week if the system does not meet the requirements of Schedule 1 of O. Reg. 170/03. Each sample must be tested for ecoli (EC) + total coliform (TC) and, if secondary disinfection is provided, must also be tested for heterophic plate count (HPC); the operating authority (OA) samples weekly , this requirement has been met.

Question ID	DWMMR1096000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-3   (1);			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.			

Question ID	DWMMR1084000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-2;			
<b>Question:</b> Are all inorganic water quality monitoring requirements prescribed by legislation conducted within the required frequency?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All inorganic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.			
<p>Sampling and testing for inorganic parameters has been conducted for the drinking water system in accordance Schedule 13-2 of Ontario Regulation 170/03. The regulation requires that samples are to be collected every 60 months and tested for each parameter listed in Schedule 23; this requirement has been met. The most recent samples were collected on July 16, 2018 and there were no concerns identified from the results.</p>			

Question ID	DWMR1085000	Question Type	Legislative
<b>Legislative Requirement(s):</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>Question:</b> Are all organic water quality monitoring requirements prescribed by legislation conducted within the required frequency?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.  The regulation requires that samples are to be collected every 60 months and tested for each parameter listed in Schedule 24; this requirement has been met. The most recent samples were collected on July 16, 2018 and there were no concerns identified from the results.			

Question ID	DWMR1086000	Question Type	Legislative
<b>Legislative Requirement(s):</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>Question:</b> Are all haloacetic acid water quality monitoring requirements prescribed by legislation conducted within the required frequency and at the required location?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All haloacetic acid water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.  After 8 quarters of relief from sampling HAA's the owner commenced sampling on January 9, 2023.			

Question ID	DWMR1087000	Question Type	Legislative
<b>Legislative Requirement(s):</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>Question:</b> Have all trihalomethane water quality monitoring requirements prescribed by legislation been conducted within the required frequency and at the required location?			



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

All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.

Section 13-6 of Schedule 13, O.Reg.170/03 requires the Owner and the Operating Authority to ensure that at least one distribution sample is taken every 3 months from a point in the drinking water system's distribution system, or in plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of Trihalomethanes (THMs), and tested for THMs. Section 6-1.1 of Schedule 6, O.Reg.170/03 requires that these samples be taken at least 60 days, and not more than 120 days, after a sample was taken for that purpose in the previous three month period. Sampling for the inspection period occurred April 11, 2022, July 11 ,2022, October 12, 2022 , January 10 , 2023.

<b>Question ID</b>	DWMR1088000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-7;			
<b>Question:</b> Are all nitrate/nitrite water quality monitoring requirements prescribed by legislation conducted within the required frequency for the DWS?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency.  Section 13-7 of Schedule 13, O. Reg.170/03 requires the Owner and Operating authority to ensure that at least one water sample is taken every three months and tested for nitrates and nitrites. Section 6-1.1 of Schedule 6, O. Reg.170/03 requires that these samples be taken at least 60 days, and not more than 120 days, after a sample was taken for that purpose in the previous three month period. Sampling for the inspection period occurred April 11, 2022, July 11 ,2022, October 12, 2022 , January 10 , 2023 .			

<b>Question ID</b>	DWMR1089000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-8;			
<b>Question:</b> Are all sodium water quality monitoring requirements prescribed by legislation conducted within the required frequency?			

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

All sodium water quality monitoring requirements prescribed by legislation were conducted within the required frequency.

Section 13-8 of Schedule 13, O. Reg.170/03 requires that the Owner and the Operating Authority ensure that a treated water sample is taken every 60 months and is tested for sodium. Records provided by the Owner and reviewed during the inspection, indicate that the Owner conducted sampling for sodium on October 12, 2022.

<b>Question ID</b>	DWMR1090000	<b>Question Type</b>	Legislative
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**Legislative Requirement(s):**

SDWA | O. Reg. 170/03 | 13-9;

**Question:**

Where fluoridation is not practiced, are all fluoride water quality monitoring requirements prescribed by legislation conducted within the required frequency?

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

All fluoride water quality monitoring requirements prescribed by legislation were conducted within the required frequency.

Section 13-9 of Schedule 13, O. Reg.170/03 requires the Owner and the Operating Authority to ensure that at least one water sample is taken every 60 months and tested for Fluoride. The Owner last conducted Fluoride sampling on October 9, 2018.

<b>Question ID</b>	DWMR1102000	<b>Question Type</b>	Legislative
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**Legislative Requirement(s):**

SDWA | O. Reg. 170/03 | 18-10 | (1); SDWA | O. Reg. 170/03 | 18-11; SDWA | O. Reg. 170/03 | 18-12; SDWA | O. Reg. 170/03 | 18-13; SDWA | O. Reg. 170/03 | 18-14; SDWA | O. Reg. 170/03 | 18-2; SDWA | O. Reg. 170/03 | 18-3; SDWA | O. Reg. 170/03 | 18-4; SDWA | O. Reg. 170/03 | 18-5; SDWA | O. Reg. 170/03 | 18-6; SDWA | O. Reg. 170/03 | 18-9;

**Question:**

For SMR Systems, have corrective actions (as per Schedule 18 of O. Reg. 170/03) been taken to address adverse conditions, including any other steps as directed by the Medical Officer of Health?

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

Corrective actions (as per Schedule 18), including any other steps that were directed by the Medical Officer of Health, had been taken to address adverse conditions.

<b>Question ID</b>	DWMR1104000	<b>Question Type</b>	Legislative
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**Legislative Requirement(s):**

SDWA | O. Reg. 170/03 | 16-6 | (1); SDWA | O. Reg. 170/03 | 16-6 | (2); SDWA | O. Reg. 170/03 | 16-6 | (3); SDWA | O. Reg. 170/03 | 16-6 | (3.1); SDWA | O. Reg. 170/03 | 16-6 | (3.2); SDWA | O. Reg. 170/03 | 16-6 | (4); SDWA | O. Reg. 170/03 | 16-6 | (5); SDWA | O. Reg. 170/03 | 16-6 | (6);

**Question:**

Were all required verbal notifications of adverse water quality incidents immediately provided as per O. Reg. 170/03 16-6?

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

All required notifications of adverse water quality incidents were immediately provided as per O. Reg. 170/03 16-6.

Question ID	DWMR1113000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   10.1   (3);			
<b>Question:</b> Have all changes to the system registration information been provided to the Ministry within ten (10) days of the change?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All changes to the system registration information were provided within ten (10) days of the change.			

Question ID	DWMR1059000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   28;			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.			

Question ID	DWMR1060000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			

**Question:**

Do the operations and maintenance manuals meet the requirements of the DWWP and MDWL issued under Part V of the SDWA?

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

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.

Question ID	DWMMR1061000	Question Type	Legislative
<b>Legislative Requirement(s):</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>Question:</b>			
Are logbooks properly maintained and contain the required information?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b>			
Logbooks were properly maintained and contained the required information.			

Question ID	DWMMR1062000	Question Type	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   7-5;			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</b>			
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.			

Question ID	DWMMR1071000	Question Type	BMP
<b>Legislative Requirement(s):</b>			
Not Applicable			
<b>Question:</b>			
Has the owner provided security measures to protect components of the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b>			
The owner had provided security measures to protect components of the drinking water system.			

<b>Question ID</b>	DWMR1073000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   23   (1);			
<b>Question:</b> Has the overall responsible operator been designated for all subsystems which comprise the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The overall responsible operator had been designated for each subsystem.			

<b>Question ID</b>	DWMR1074000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   25   (1);			
<b>Question:</b> Have operators-in-charge been designated for all subsystems which comprise the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Operators-in-charge had been designated for all subsystems which comprise the drinking water system.			

<b>Question ID</b>	DWMR1075000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   22;			
<b>Question:</b> Do all operators possess the required certification?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All operators possessed the required certification.			

<b>Question ID</b>	DWMR1076000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (2);			
<b>Question:</b> Do only certified operators make adjustments to the treatment equipment?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Only certified operators made adjustments to the treatment equipment.			





**Ontario**

**Ministry of the Environment and Climate Change  
Drinking Water Inspection Report**

## **APPENDIX A**

### **REFERENCE GUIDE FOR STAKEHOLDERS**

# 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 Public Information Centre if you need assistance or have questions at 1-800-565-4923/416-325-4000 or [picemail.moe@ontario.ca](mailto:picemail.moe@ontario.ca).

For more information on Ontario's drinking water visit [www.ontario.ca/drinkingwater](http://www.ontario.ca/drinkingwater) and email [drinking.water@ontario.ca](mailto:drinking.water@ontario.ca) to subscribe to drinking water news.



PUBLICATION TITLE	PUBLICATION NUMBER
Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils	7889e01
FORMS: Drinking Water System Profile Information, Laboratory Services Notification, Adverse Test Result Notification Form	7419e, 5387e, 4444e
Procedure for Disinfection of Drinking Water in Ontario	4448e01
Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids	7152e
Total Trihalomethane (TTHM) Reporting Requirements Technical Bulletin (February 2011)	8215e
Filtration Processes Technical Bulletin	7467
Ultraviolet Disinfection Technical Bulletin	7685
Guide for Applying for Drinking Water Works Permit Amendments, Licence Amendments, Licence Renewals and New System Applications	7014e01
Certification Guide for Operators and Water Quality Analysts	
Guide to Drinking Water Operator Training Requirements	9802e
Taking Samples for the Community Lead Testing Program	6560e01
Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption	7423e
Guide: Requesting Regulatory Relief from Lead Sampling Requirements	6610
Drinking Water System Contact List	7128e
Technical Support Document for Ontario Drinking Water Quality Standards	4449e01

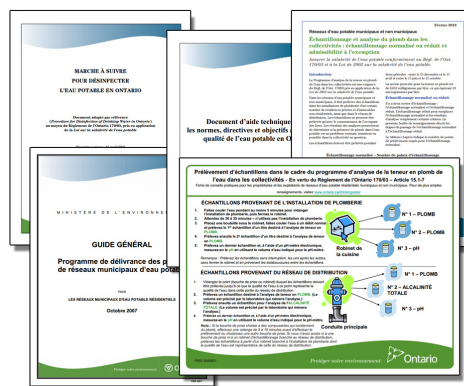
[ontario.ca/drinkingwater](http://ontario.ca/drinkingwater)



# 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 Centre d'information au public au 1 800 565-4923 ou au 416 325-4000, ou encore à [picemail.moe@ontario.ca](mailto:picemail.moe@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) ou envoyez un courriel à [drinking.water@ontario.ca](mailto:drinking.water@ontario.ca) pour suivre l'information sur l'eau potable.

TITRE DE LA PUBLICATION	NUMÉRO DE PUBLICATION
Prendre soin de votre eau potable – Un guide destiné aux membres des conseils municipaux	7889f01
Renseignements sur le profil du réseau d'eau potable, Avis de demande de services de laboratoire, Formulaire de communication de résultats d'analyse insatisfaisants et du règlement des problèmes	7419f, 5387f, 4444f
Marche à suivre pour désinfecter l'eau potable en Ontario	4448f01
Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids (en anglais seulement)	7152e
Total Trihalomethane (TTHM) Reporting Requirements: Technical Bulletin (février 2011) (en anglais seulement)	8215e
Filtration Processes Technical Bulletin (en anglais seulement)	7467
Ultraviolet Disinfection Technical Bulletin (en anglais seulement)	7685
Guide de présentation d'une demande de modification du permis d'aménagement de station de production d'eau potable, de modification du permis de réseau municipal d'eau potable, de renouvellement du permis de réseau municipal d'eau potable et de permis pour un nouveau réseau	7014f01
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	
Guide sur les exigences relatives à la formation des exploitants de réseaux d'eau potable	9802f
Prélèvement d'échantillons dans le cadre du programme d'analyse de la teneur en plomb de l'eau dans les collectivités	6560f01
Échantillonnage et analyse du plomb dans les collectivités : échantillonnage normalisé ou réduit et admissibilité à l'exemption	7423f
Guide: Requesting Regulatory Relief from Lead Sampling Requirements (en anglais seulement)	6610
Liste des personnes-ressources du réseau d'eau potable	7128f
Document d'aide technique pour les normes, directives et objectifs associés à la qualité de l'eau potable en Ontario	4449f01

[ontario.ca/eaupotable](http://ontario.ca/eaupotable)