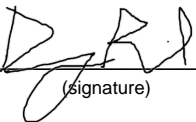




OIL SPRINGS WATER DISTRIBUTION SYSTEM  
Physical Address: 4591 OIL SPRINGS LINE, , OIL  
SPRINGS, ON N0N 1P0

## INSPECTION REPORT

Entity: VILLAGE OF OIL SPRINGS  
OPERATIONS MANAGEMENT  
INTERNATIONAL CANADA INC.  
Inspection Start Date: July 24, 2024  
Inspection End Date: August 20, 2024  
Inspected By: Dwayne Reid  
Badge #: 1421

  
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(signature)

## INTRODUCTION

### Purpose

This unannounced, detailed inspection was conducted to confirm compliance with Ministry of the Environment, Conservation and Parks' (MECP) legislation and conformance with Ministry drinking water policies and guidelines.

### Scope

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 and the operation of the system. The inspection of the drinking water system included both the physical inspection of the component parts of the system listed in section 4 "Systems Components" of the report and the review of data and documents associated with the operation of the drinking water system during the review period.

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.

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.

### Facility Contacts and Dates

The drinking water system is owned by The Village of Oil Springs. Jacobs (Operations Management International Canada Inc.) is the Operating Authority used to collect water distribution samples and monitor system pressure within Oil Springs. The system serves an estimated population of 700 and is categorized as a Large Municipal Residential System. Information reviewed for this inspection covered the time period of July 1, 2023 - June 30, 2024.

### Systems/Components

The Village of Oil Springs Water Distribution System consists of approximately 8.5 km of distribution watermains that receive water from the Township of Enniskillen Water Distribution System through two metered connections at the northwest and eastern extremities of the community. The Oil Springs Water Distribution System does not include any treatment, storage or pumping components, and the Enniskillen reservoir and pumping station at 2868 Oil Heritage Road in Enniskillen maintains secondary chlorination and pressure. The Township of Enniskillen Water Distribution System receives treated surface water from the Petrolia Water Treatment

Plant in Bright's Grove. The Petrolia Water Treatment Plant is inspected separately from this drinking water system.

### **Permissions/Approvals**

This drinking water system was subject to specific conditions contained within the following permissions and/or approvals (including but not limited to) at the time of the inspection in addition to the requirements of the SDWA and its regulations: Municipal Drinking Water Licence No. 251-101, Issue No. 4; Drinking Water Works Permit No. 251-201, Issue No. 3.

## **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

<b>Question ID</b>	DWMR1018001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the owner ensure that equipment was 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 ensured that equipment was installed as required.			

<b>Question ID</b>	DWMR1028001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were up-to-date plans for the drinking water system made available in such a manner that they could be readily viewed by all persons responsible for all or part of the operation of the drinking water system, in accordance with the Drinking Water Works Permit and Municipal Drinking Water Licence?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Plans for the drinking water system were kept up-to-date and made available as required.  Operators have access to hard copy and digital drawings. The system drawing provided shows valves, hydrants, watermains and their sizes and locations on the streets.			

<b>Question ID</b>	DWMR1025001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Were all parts of the drinking water system that came in contact with drinking water disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All parts of the drinking water system were disinfected as required.			

Watermain repairs and component installations were disinfected in accordance with the 2020 Watermain Disinfection Procedure according to the documentation provided with the exception of the following:

A service line was repaired on November 1, 2023 and put back into service. No post-repair flushing was conducted prior to returning the line to service.

Section 1.6 of the 2020 Watermain Disinfection Procedure states "For Service Pipes of diameter less than 100mm, Operating Authorities shall ensure that sanitary conditions are maintained during installation/repair, and that Flushing is conducted before they are placed into service." Flushing is defined in the 2020 Watermain Disinfection Procedure as flowing water through a section of watermain/appurtenances and out of the system until the water appears visibly free from discoloration and particulates with an Acceptable Disinfectant Concentration.

The following information required by the 2020 Watermain Disinfection Procedure was not found in the documentation provided:

For the October 10, 2023 watermain tap for a 2" service line

- Watermain size and material (of watermain being tapped)
- whether or not contamination suspected before or during the repair process

For the July 12, 2023 hydrant relocation:

- whether or not contamination suspected before or during the repair process

The Operating Authority is reminded to ensure that flushing and free chlorine monitoring is conducted following service line repairs and installations, and to ensure all required information is recorded for repairs and installations in accordance with the 2020 Watermain Disinfection Procedure.

Question ID	DWMR1027001	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   31   (1);</p>			
<p><b>Question:</b> Did the owner have evidence indicating that chemicals and materials that came in contact with water within the drinking water system met all applicable AWWA and ANSI standards in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner had evidence indicating that chemicals and materials that came in contact with water within the drinking water system met the applicable standards.  The Jutzi 12% chlorine solution used for disinfection was NSF 60 certified.</p>			



<b>Question ID</b>	DWMR1033001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-2   (3); SDWA   O. Reg. 170/03   7-2   (4);			
<b>Question:</b> Was secondary disinfectant residual tested as required for the large municipal residential distribution system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Secondary disinfectant residual was tested as required.  Chlorine residual monitoring was conducted twice per week at 4 locations on one day and 3 locations on the other day. There was at least 48 hours between sampling days.  The Ministry conducted free chlorine residual monitoring during the inspection at the Youth Centre (0.97 mg/L) and the Post Office (0.98 mg/L). All results indicated adequate free chlorine residual.			

<b>Question ID</b>	DWMR1049001	<b>Question Type</b>	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Did records confirm that disinfectant residuals were routinely checked at the extremities and dead ends of the distribution system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records confirmed that disinfectant residuals were routinely checked at the extremities and dead ends of the distribution system.			

<b>Question ID</b>	DWMR1036001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-7   (1);			
<b>Question:</b> Where continuous monitoring equipment was not used for chlorine residual analysis, were samples tested using an acceptable portable device?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Samples for chlorine residual analysis were tested using an acceptable portable device.  The Operating Authority uses Hach Pocket Colorimeters for chlorine residual testing.			

Question ID	DWMR1099001	Question Type	Information
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Do records show that water provided by the drinking water system met the Ontario Drinking Water Quality Standards?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records showed that all water sample results met the Ontario Drinking Water Quality Standards.			

Question ID	DWMR1081001	Question Type	Legislative
<b>Legislative Requirement(s):</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>Question:</b> Were distribution microbiological sampling requirements prescribed by Schedule 10-2 of O. Reg. 170/03 for large municipal residential systems met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Distribution microbiological sampling requirements were met.  According to the information provided, 8 microbiological samples were taken each month, with at least one sample taken each week. The samples were analysed for E. coli and total coliforms. One quarter of the samples were also analysed for heterotrophic plate count.			

Question ID	DWMR1096001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-3   (1);			
<b>Question:</b> Did records confirm that chlorine residual tests were conducted at the same time and location as microbiological samples?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Records confirmed that chlorine residual tests were conducted as required.			

Question ID	DWMR1086001	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);			

**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.

Haloacetic acid samples were taken July 11, 2023, October 11, 2023, January 9, 2024, and April 9, 2024. Running annual average results ranged from 21.8 – 27.1 ug/L as compared to the limit of 80 ug/L. All samples were taken at Hydrant #34 (Oil Heritage Road at Meadowview). Haloacetic acid concentrations tend to be highest at the start of the distribution system or downstream of re-chlorination systems. The Operating Authority indicated that the Oil Heritage/Meadowview location is closest to the start of the distribution system.

Question ID	DWMMR1087001	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>			
Were trihalomethane sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b>			
Trihalomethane sampling requirements were met.			
Trihalomethane samples were taken July 11, 2023, October 11, 2023, January 9, 2024, and April 9, 2024. Running annual average results ranged from 45.5 - 52 ug/L as compared to the limit of 100 ug/L. Three samples were taken at 2423 Kelly Road (Oil Museum of Canada), and one sample was taken at 4898 Oil Springs Line (Sample Station 2). Trihalomethane concentrations tend to be highest at locations with the highest residence time in the distribution system. The Oil Museum of Canada is at the southern edge of the system and Sample Station 2 is at the eastern edge of the system.			

Question ID	DWMMR1095001	Question Type	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   15.1-10; SDWA   O. Reg. 170/03   15.1-4   (1); SDWA   O. Reg. 170/03   15.1-5   (1); SDWA   O. Reg. 170/03   15.1-5   (10); SDWA   O. Reg. 170/03   15.1-5   (11); SDWA   O. Reg. 170/03   15.1-5   (2); SDWA   O. Reg. 170/03   15.1-5   (3); SDWA   O. Reg. 170/03   15.1-5   (4); SDWA   O. Reg. 170/03   15.1-5   (5); SDWA   O. Reg. 170/03   15.1-5   (6); SDWA   O. Reg. 170/03   15.1-5   (7); SDWA   O. Reg. 170/03   15.1-5   (8); SDWA   O. Reg. 170/03   15.1-5   (9); SDWA   O. Reg. 170/03   15.1-7   (1); SDWA   O. Reg. 170/03   15.1-7   (2); SDWA   O. Reg. 170/03   15.1-7   (3); SDWA   O. Reg. 170/03   15.1-7   (4); SDWA   O. Reg. 170/03   15.1-9   (1); SDWA   O. Reg. 170/03   15.1-9   (2); SDWA   O. Reg. 170/03   15.1-9   (3); SDWA   O. Reg. 170/03   15.1-9   (4); SDWA   O. Reg. 170/03			

15.1-9 | (5); SDWA | O. Reg. 170/03 | 15.1-9 | (6); SDWA | O. Reg. 170/03 | 15.1-9 | (7);  
SDWA | O. Reg. 170/03 | 15.1-9 | (8); SDWA | O. Reg. 170/03 | 15.1-9 | (9);

**Question:**

Were lead sampling requirements prescribed by Schedule 15.1 of O. Reg. 170/03 met?

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

Lead sampling requirements were met.

Lead samples were last taken April 5, 2022 and October 4, 2022 at two locations in the distribution system. Alkalinity and pH samples continue to be taken twice per year at two locations. Lead sampling is required again during the winter and summer periods in 2025.

<b>Question ID</b>	DWMR1110001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   11   (6);			
<b>Question:</b> Was the annual report prepared by February 28th of the following year and did it contain the required information?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The annual report requirements were met.			
The annual report indicates that it is available on the Oil Springs website. However, the latest report found on the website was from 2021.			

<b>Question ID</b>	DWMR1056001	<b>Question Type</b>	Information
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Did the donor provide an annual report to the owner of this receiver drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The donor provided an annual report to the owner of the receiver drinking water system.			

<b>Question ID</b>	DWMR1111001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   22-2   (1); SDWA   O. Reg. 170/03   22-2   (2); SDWA   O. Reg. 170/03   22-2   (3); SDWA   O. Reg. 170/03   22-2   (4);			
<b>Question:</b> Did the summary report contain the required information and was it completed and distributed as required?			

<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The summary report requirements were met.</p>
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<b>Question ID</b>	DWMR1098001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13   (1); SDWA   O. Reg. 170/03   13   (2); SDWA   O. Reg. 170/03   13   (3);			
<b>Question:</b> Were the required records kept for the periods prescribed by section 13 of O. Reg. 170/03?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The required records were kept for the prescribed periods.			

<b>Question ID</b>	DWMR1045001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the owner update the document describing the distribution components within 12 months of completion of alterations to the system in accordance with the Drinking Water Works Permit?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner had up-to-date documents describing the distribution components.  As-built drawings were provided for the Orchardview Drive hydrant re-location. The distribution system drawing provided shows valves, hydrants, watermains and their sizes and locations on the streets.			

<b>Question ID</b>	DWMR1046001	<b>Question Type</b>	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Was there a backflow prevention program, policy and/or bylaw in place that addressed cross connections and connections to high hazard facilities?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> There was a backflow prevention program, policy and/or bylaw in place.  The Owner has a Regulation of Water Supply by-law (By-law No. 756 of 2017) that includes a section on backflow and cross connection prevention.			

The by-law prohibits "any person to connect, cause to be connected, or allow to remain connected to the waterworks distribution system any piping, fixture, fitting, container or appliance, in a manner which under any circumstances, may allow water, wastewater, non-potable water, or any other liquid, chemical or substance to enter the water works distribution system."

The by-law specifies the municipality can require installation of a cross-connection control device in accordance with the Ontario Building Code and "CAN/CSA-B64. 10-94 Manual for the Selection, Installation, Maintenance and Field Testing of Backflow Prevention Devices", most recent edition.

The Operating Authority is not aware of any known cross connections between the distribution system and other non-potable sources.

The by-law does not specifically require backflow preventers at high-risk facilities. Generally, any cross-connection or potential cross-connection involving any substance that could be a danger to health is considered a high or severe risk.

The by-law does not specifically require periodic inspections and maintenance of backflow preventers at high-risk facilities.

The following website has additional information on backflow prevention that could be used to improve the current by-law.

<https://www.ontario.ca/page/guide-drinking-water-system-owners-seeking-undertake-backflow-prevention-program>

Question ID	DWMR1053001	Question Type	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Was the owner able to maintain proper pressures in the distribution system and was pressure monitored to alert the operator of conditions of loss of pressure below the value under which the system was designed to operate?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner was able to maintain proper pressures in the distribution system and pressure was monitored to alert the operator of conditions which may lead to loss of pressure below the value under which the system is designed to operate.  Pressure is monitored weekly within the distribution system at the municipal office. The Operating Authority indicated that pressure is continuously monitored upstream at the Enniskillen Reservoir. The low pressure standard operating procedure indicates that the Enniskillen system is equipped with pressure alarms, and the procedure includes steps to be taken for various pressure-related scenarios.			

<b>Question ID</b>	DWMR1048001	<b>Question Type</b>	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Had the owner implemented a program for the flushing of watermains as per industry standards?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner had implemented a program for the flushing of watermains.  All watermain dead-ends and hydrants are flushed in the spring and fall.			

<b>Question ID</b>	DWMR1050001	<b>Question Type</b>	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Was there a program in place for inspecting and exercising valves?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> There was a program in place for inspecting and exercising valves.  All isolation valves are exercised yearly.			

<b>Question ID</b>	DWMR1051001	<b>Question Type</b>	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Was there a program in place for inspecting and operating hydrants?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> There was a program in place for inspecting and operating hydrants.  All hydrants are inspected and flushed in the spring and fall.			

<b>Question ID</b>	DWMR1052001	<b>Question Type</b>	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Was there a bylaw or policy in place limiting access to hydrants?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> There was a bylaw or policy in place limiting access to hydrants.			

By-law No. 756 of 2017 prohibits unauthorized use of fire hydrants.

Question ID	DWMR1058001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   28;			
<b>Question:</b> Did operators and maintenance personnel have ready access to operations and maintenance manuals?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Operators and maintenance personnel had ready access to operations and maintenance manuals.  Operators have access to electronic and hard copies of operations and maintenance manuals and procedures.			

Question ID	DWMR1059001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   28;			
<b>Question:</b> Did 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	DWMR1060001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Did the operations and maintenance manual(s) meet the requirements of the Municipal Drinking Water Licence?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The operations and maintenance manual(s) met the requirements of the Municipal Drinking Water Licence.			



<b>Question ID</b>	DWMR1064001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   26   (2);			
<b>Question:</b> Did an operator-in-charge ensure that records were maintained of all adjustments to the processes within their responsibility?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The operator-in-charge ensured that records were maintained of all adjustments to the processes within their responsibility.  Records of calibration and watermain repairs were documented.			

<b>Question ID</b>	DWMR1062001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-5;			
<b>Question:</b> 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?			
<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 done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03.  Only certified operators collect samples and monitor free chlorine residual according to the records provided.			

<b>Question ID</b>	DWMR1063001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   6-10   (1);			
<b>Question:</b> For every required operational test and sample, was a record made of the date, time, location, results, and name of the person conducting the test?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> For every required operational test and sample, a record was made as required.			

<b>Question ID</b>	DWMR1061001	<b>Question Type</b>	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);

**Question:**

Were logbooks properly maintained and did they contain the required information?

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

Logbooks were properly maintained and contained the required information.

The ORO and OIC is noted in the logbook each day operators attend the distribution system.

Question ID	DWMR1065001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   27   (6);			
<b>Question:</b> Were logs and other record keeping mechanisms available for at least five (5) years?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Logs or other record keeping mechanisms were available for at least five (5) years.			

Question ID	DWMR1071001	Question Type	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Did the owner provide security measures to protect components of the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner provided security measures to protect components of the drinking water system.  The Operating Authority confirmed that valve and meter chambers are locked and inaccessible to the public.			

Question ID	DWMR1072001	Question Type	BMP
<b>Legislative Requirement(s):</b> Not Applicable			
<b>Question:</b> Had the owner and/or operating authority undertaken efforts to promote water conservation and reduce water losses in the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner and/or operating authority undertook efforts to promote water conservation and reduce water losses in their system.			

All water consumers are metered. The municipality determines water loss each quarter using the volume of water metered into the system, consumer meters, and estimated flushing and hydrant use. The average water loss in 2023 was 16.8%.

The following websites may be helpful to the municipality in relation to water loss and conservation:

<http://www.awwa.org/resources-tools/water-knowledge.aspx> (includes water conservation and water loss control and free audit software)

<https://fcm.ca/sites/default/files/documents/resources/guide/infraguide-water-use-loss-waterdistribution-system-mamp.pdf> (water use and loss in distribution systems)

The Operating Authority has a Water Conservation standard operating procedure that would be activated in the event of an emergency at the Petrolia Water Treatment Plant or Enniskillen Reservoir or during times of extreme drought.

<b>Question ID</b>	DWMR1073001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   23   (1);			
<b>Question:</b> Was an overall responsible operator designated for all subsystems which comprise the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> An overall responsible operator was designated for all subsystem.  The ORO is documented each day in the logbook and a notice is posted at the municipal office.			

<b>Question ID</b>	DWMR1078001	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   23   (1); SDWA   O. Reg. 128/04   23   (2); SDWA   O. Reg. 128/04   23   (4); SDWA   O. Reg. 128/04   23   (6); SDWA   O. Reg. 128/04   23   (7);			
<b>Question:</b> When the overall responsible operator was unable to act, was a properly certified operator designated to act in their place?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> A properly certified operator was designated to act in place of the overall responsible operator.  Certified operators were available to be backup ORO for this Class 1 distribution system.			

Question ID	DWMR1074001	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 128/04   25   (1);			
<b>Question:</b> Were operators-in-charge designated for all subsystems which comprise the drinking water system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Operators-in-charge were designated for all subsystems.  OICs are noted in the logbook.			

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