



HURON WOODS DRINKING WATER SYSTEM  
86 BIRCH ST, SOUTH BRUCE PENINSULA, ON, N0H 2G0  
**INSPECTION REPORT**

System Number: 220007775  
Entity: ONTARIO CLEAN WATER  
AGENCY  
THE CORPORATION OF THE  
TOWN OF SOUTH BRUCE  
PENINSULA

Inspection Start Date: September 28, 2023

Inspection End Date: October 17, 2023

Inspected By: Robert Graham

Badge #: 1667

Inspected By: John Ritchie

Badge #: 1157



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(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>On September 28, 2023, Ministry of the Environment, Conservation and Parks (MECP) Provincial Officer Bob Graham conducted an announced focused inspection of the Huron Woods Drinking Water System (DWS). The Huron Woods DWS is a Large Municipal Residential DWS (serves a major residential development and serves more than 100 private residences) owned by the Town of South Bruce Peninsula (Owner) and operated by the Ontario Clean Water Agency (OCWA - Operating Authority - OA). Assistance with the inspection was provided by Leo-Paul Frigault, OCWA Senior Operations Manager, Karla Young, OCWA Process &amp; Compliance Technician and Cole Hutchinson, OCWA Operator.</p> <p>The Huron Woods DWS operates under MECP issued Municipal Drinking Water Licence Number 094-103, Issue Number 4 and Drinking Water Works Permit Number 094-203, Issue Number 4, both dated March 6, 2020.</p> <p>The well serving the Huron Woods DWS (Well No. 6) is an overburden well drilled to a depth of 16.6 metres. The well has a 250 mm diameter casing and is equipped with a submersible well pump rated at 5.3 L/s at a TDH (total dynamic head) of 15 metres. The water discharges to a 50 mm diameter header into the pumphouse. Well 6 is the primary production well supplying the Huron Woods drinking water system and is considered ground water under the direct influence</p>			

of surface water (GUDI).

During the inspection review period, from November 2, 2022, the day following the previous inspection, to the date of inspection on September 28, 2023, there were no Adverse Water Quality Incidents (AWQIs) reported to the MECP Spills Action Centre (SAC).

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> This drinking water system provides for both primary and secondary disinfection and distribution of water.			

Question ID	DWMR1007000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-2   (1);			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> 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.			
<p>The Huron Woods DWS water wells include Wells 1, 2 and 3, Test Well 2 and Well No. 6. Of the aforementioned wells, Well No. 6 remains in use as the sole primary production well. The remaining water wells are not in use and have been removed as DWS source water wells in MECP Permit To Take Water No. 5437-BTFNDL.</p> <p>The owner shall maintain all wells in accordance with Ontario Regulation 903, s.20 (1) under the Ontario Water resources Act which states that, "The well owner shall maintain the well at all times after the completion of the well's structural stage in a manner sufficient to prevent the entry into the well of surface water and other foreign materials."</p> <p>At the time of inspection, a visual assessment was made of the exposed structural portions of the aforementioned wells. The wells appeared to be maintained in such a manner to prevent the entry into the wells of surface water and other foreign materials.</p>			

Question ID	DWMR1009000	Question Type	Legislative
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<b>Legislative Requirement(s):</b> SDWA   31   (1);
<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>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.

Question ID	DWWMR1014000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Is there sufficient monitoring of flow as required by the MDWL or DWWP issued under Part V of the SDWA?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</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.			

Question ID	DWWMR1016000	Question Type	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.			
Condition 1.1 of Schedule C of the MDWL identifies that the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system at the Huron Woods Water Treatment Plant shall not exceed 743 m <sup>3</sup> /day. Records reviewed during the inspection review time period identified that the maximum day flow of treated water during the inspection review time period did not exceed the 743 m <sup>3</sup> /day.			

Question ID	DWWMR1018000	Question Type	Legislative
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**Legislative Requirement(s):**

SDWA | 31 | (1);

**Question:**

Has the owner ensured that all equipment is installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?

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

The owner had ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.

The equipment installed at the Huron Woods DWS plant compares favourably to the equipment listed in the DWWP issued for the Huron woods DWS. The process flow diagram included in Schedule D of the Permit also appears to be accurate. All equipment described in the Permit appeared to be installed and operating on the date of this inspection. There were no reported alterations undertaken during this inspection review period.

Question ID	DWMMR1023000	Question Type	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   1-2   (2);			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</b>			
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.			
Records reviewed indicate that the Huron Woods DWS was operated to achieve the necessary CT requirements and UV performance criteria for primary disinfection during the inspection time period.			

Question ID	DWMMR1026000	Question Type	Legislative
<b>Legislative Requirement(s):</b>			
SDWA   O. Reg. 170/03   1-6   (1);			
<b>Question:</b>			
If primary disinfection equipment that does not use chlorination or chloramination is provided, is the equipment equipped with alarms or shut-off mechanisms that satisfy the standards described in Section 1-6 (1) of Schedule 1 of Ontario Regulation 170/03?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b>			

The primary disinfection equipment was equipped with alarms or shut-off mechanisms that satisfied the standards described in Section 1-6 (1) of Schedule 1 of O. Reg. 170/03.

<b>Question ID</b>	DWMR1024000	<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>	DWMR1033000	<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> Is the secondary disinfectant residual measured as required for the large municipal residential distribution system?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The secondary disinfectant residual was measured as required for the large municipal residential distribution system.  Subsection 7-2 (3) and (4) of schedule 7, O.Reg.170/03 identifies that the owner of a large municipal residential system that provides secondary disinfection and the OA for the system shall ensure that at least seven distribution samples are taken each week and are tested immediately for free chlorine residual if the system provides chlorination. Records provided during the inspection indicate that the owner complied with these requirements, by conducting four (4) free chlorine residual tests for secondary disinfection monitoring purposes 2 days each week and at least 48 hours apart.			

<b>Question ID</b>	DWMR1030000	<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?

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

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>	DWMR1032000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   7-3   (2);			
<b>Question:</b> If the drinking water system obtains water from a surface water source and provides filtration, is continuous monitoring of each filter effluent line being performed for turbidity?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> Continuous monitoring of each filter effluent line was being performed for turbidity.			

<b>Question ID</b>	DWMR1035000	<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.  Operators print off a daily report for review and confirm report reviews by signing and dating the reports. All daily report reviews are available in a binder maintained on site. Additionally, Operators record the daily review in the facility logbook confirming that they have reviewed the DWS data.			

<b>Question ID</b>	DWMR1038000	<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?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</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.

<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.  The water treatment plant is equipped with continuous analyzers and alarms for free chlorine and turbidity. The low alarm set point for the treated water chlorine analyzer is 0.60 mg/L. The low low alarm set point for the treated water chlorine analyzer is 0.50 mg/L. When the low low set point is reached an OCWA operator is notified and the alarm sequence is triggered and the system locks out ceasing water production ensuring the system meets their CT requirements. The turbidity analyzer high alarm set point downstream of the filters is 0.30 NTU. The turbidity analyzer high high alarm set point downstream of the filters is 0.70 NTU. When reached an OCWA operator is notified the system alarm sequence is triggered and the filters are locked out ceasing water production and preventing any adverse conditions.			

<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 verification checks and calibrations are conducted by the operator(s) which are recorded in facility log books and monthly process and compliance			

status reports. Annual analyzer accuracy verification checks and calibrations were performed by SPD Sales Ltd. on May 26, 2023. Annual flow meters accuracy verification checks and calibrations were performed by IndusControl Incorporated on May 31, 2023.

Question ID	DWMR1108000	Question Type	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> 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>Compliance Response(s)/Corrective Action(s)/Observation(s):</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.			

Question ID	DWMR1039000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-6   (3);			
<b>Question:</b> If primary disinfection equipment that does not use chlorination or chloramination is provided, has the owner and operating authority ensured that the equipment has a recording device that continuously records the performance of the disinfection equipment?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> The owner and operating authority ensured that the primary disinfection equipment had a recording device that continuously recorded the performance of the disinfection equipment.  At the time of inspection, the Provincial Officer observed that the SCADA alarm setpoint for the UV system was set at 29 W/m2 meeting Part 5.4.1 of the Operations and Maintenance Manual (UV Disinfection) for the Huron Woods DWS which identifies a UV alarm setpoint for each UV Unit at 29 W/m2.			

Question ID	DWMR1109000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   1-6   (1);			
<b>Question:</b> If the system uses equipment for primary disinfection other than chlorination or chloramination			

and the equipment has malfunctioned, lost power or ceased to provide the appropriate level of disinfection, causing 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):**

When failure(s) of primary disinfection equipment, other than that used for chlorination or chloramination, caused an alarm to sound or an automatic shut-off to occur, a certified operator responded in a timely manner and took appropriate actions.

<b>Question ID</b>	DWMR1042000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> If UV disinfection is used were duty sensors and reference UV sensors checked and calibrated as per the requirements of Schedule E of the MDWL or at a frequency as otherwise recommended by the UV equipment manufacturer?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All UV sensors were checked and calibrated as required.			
Records provided by the OA identify that duty UV sensors were checked monthly against a reference UV sensor, with the calibration ratio (intensity measured with the duty sensor/intensity measured with the reference UV sensor) documented to be less than or equal to 1.2, in compliance with Schedule E of the MDWL. Reference UV sensors shall be checked against a Master Reference Assembly at a minimum frequency of once every three years or on a more frequent basis depending upon the recommendations of the equipment manufacturer.			

<b>Question ID</b>	DWMR1099000	<b>Question Type</b>	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).			

<b>Question ID</b>	DWMR1081000	<b>Question Type</b>	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);

**Question:**

For LMR systems, are all microbiological water quality monitoring requirements for distribution samples being met?

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

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

The owner of a large municipal residential drinking water system shall ensure that if the system serves a population of 100,000 or less, at least 8 distribution samples plus one for every thousand people served by the system are taken every month. At least one of the samples must be taken each week. As the Huron Woods DWS population is less than 100,000, a minimum of 8 samples must be collected from the distribution system monthly. These samples are required to be tested for E.Coli. and total coliform; and at least 25 percent of the samples are required to be tested for general bacteria populations expressed as colony counts on a heterotrophic plate count (HPC). Records indicate that the Owner is routinely collecting two distribution samples each week in order to comply with, and meet, the regulatory requirement. Each of those samples were tested for E.Coli., total coliform, and approximately one half of the samples were tested for general bacteria populations expressed as colony counts on a heterotrophic plate count. There were no concerns identified with the results obtained.

Question ID	DWMR1083000	Question Type	Legislative
<p><b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   10-3;</p>			
<p><b>Question:</b> For LMR systems, are all microbiological water quality monitoring requirements for treated samples being met?</p>			
<p><b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All microbiological water quality monitoring requirements prescribed by legislation for treated samples were being met.</p> <p>The owner of a drinking-water system and the OA for the system shall ensure that a water sample is taken at least once every week prior to the treated water entering the distribution subsystem and tested for:</p> <ul style="list-style-type: none"> <li>(a) Escherichia coli;</li> <li>(b) total coliforms; and,</li> <li>(c) HPC.</li> </ul> <p>This requirement has been met.</p>			

Question ID	DWMR1096000	Question Type	Legislative
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<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.			
Sampling and testing for inorganic parameters has been conducted for the DWS in accordance with Schedule 13-2 of Ontario Regulation 170/03. The regulation requires that samples are to be collected every 12 months, if the system obtains water from a raw water supply that is surface water for each parameter listed in Schedule 23; this requirement has been met when the most recent samples were collected on January 3, 2023. There were no concerns identified from the results.			

Question ID	DWMMR1085000	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.			
Sampling and testing for organic parameters has been conducted for the drinking water system in accordance with Schedule 13-4 of Ontario Regulation 170/03. The regulation requires that			

samples are to be collected every 12 months, if the system obtains water from a raw water supply that is surface water for each parameter listed in Schedule 24; this requirement has been met when the most recent samples were collected on January 3, 2023. There were no concerns identified with the sample 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.			
<p>Section 13-6.1 (1) of Schedule 13, O.Reg.170/03 requires the Owner and the OA to ensure that at least one distribution sample is taken every 3 months from a point in the drinking water system's distribution system that is connected to the drinking water system, that is likely to have an elevated potential for the formation of Haloacetic Acids (HAAs), and tested for HAAs. 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. The standard for HAAs is expressed as a Running Annual Average (RAA), where the RAA is defined as the average for quarterly HAAs results for a DWS. The Ontario Drinking Water Quality Standard is a RAA concentration of 80 ug/L. Sampling occurred as required during the inspection review time period and there were no concerns identified with the sample results.</p>			

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?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> 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 OA to ensure that at least one distribution sample is taken every 3 months from a point in the DWS distribution system, or in plumbing that is connected to the DWS, 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. The standard for THMs is expressed as a Running Annual Average (RAA), where the RAA is defined as the average for quarterly THMs results for a DWS. The Ontario Drinking Water Quality Standard is a RAA concentration of 100 ug/L. Sampling occurred as required during the inspection review time period and there were no concerns identified with the sample results.

Question ID	DWMR1088000	Question Type	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 OA 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 occurred as required during the inspection review time period and there were no concerns identified with the sample results.			

Question ID	DWMR1089000	Question Type	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?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> 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 OA ensure that a			



treated water sample is taken every 60 months and is tested for sodium. The Owner conducted sampling for sodium on January 6, 2022 and achieved a result of 7.57 mg/L, below the regulatory standard of 20 mg/L. The next sodium samples are due in January 2027.

Question ID	DWMMR1090000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   O. Reg. 170/03   13-9;			
<b>Question:</b> Where fluoridation is not practiced, are all fluoride water quality monitoring requirements prescribed by legislation conducted within the required frequency?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> 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 January 6, 2022 and achieved a result of 0.15 mg/l, below the regulatory standard of 1.5 mg/L. The next fluoride samples are due in January 2027.			

Question ID	DWMMR1094000	Question Type	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<b>Question:</b> Are all water quality monitoring requirements imposed by the MDWL and DWWP being met?			
<b>Compliance Response(s)/Corrective Action(s)/Observation(s):</b> All water quality monitoring requirements imposed by the MDWL or DWWP issued under Part V of the SDWA were being met.			
Wastewater from the backwash process for the iron and manganese filter system is discharged to a wastewater holding tank where suspended solids are permitted to settle. MDWL Schedule C, Table 3 identifies that the annual average concentration of Backwash Wastewater Facility Total Suspended Solids discharged from the holding tank shall not exceed 25 mg/L and the annual average concentration of total chlorine residual shall not exceed 0.02 mg/L. Table 7 identifies that Backwash Wastewater Suspended Solids and total chlorine residual parameters shall be comprised of manual composite samples taken monthly at the point of discharge from the filter backwash tank. During the inspection review period this requirement has been met.			
Based upon the inspection time period sample results provided, sampling occurred as required and the annual average concentration of Backwash Wastewater Total Suspended Solids and the annual average concentration of total chlorine residual met the requirements of Table 3 of			

the DWS MDWL.

<b>Question ID</b>	DWMMR1059000	<b>Question Type</b>	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.			

<b>Question ID</b>	DWMMR1060000	<b>Question Type</b>	Legislative
<b>Legislative Requirement(s):</b> SDWA   31   (1);			
<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>Compliance Response(s)/Corrective Action(s)/Observation(s):</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>	DWMMR1061000	<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);			
<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.			

<b>Question ID</b>	DWMMR1062000	<b>Question Type</b>	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?

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

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

Question ID	DWMR1071000	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.			
Perimeter fencing with a lockable access gate surrounds the pump house and treatment facility which has lockable doors and is equipped with an intruder alarm and signage restricting access to the site. All Wells are locked restricting unauthorized access. At the time of inspection, the OA reported no unauthorized access, vandalism and/or cyber security issues impacting the DWS.			

Question ID	DWMR1073000	Question Type	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.			
The overall responsible operator for the Foreman DWS is James Learn, with back-up being provided by Billy Shearer.			

Question ID	DWMR1074000	Question Type	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?

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

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.			
Operator certification is posted at the water treatment plant where the drinking water subsystems are managed. Operator certification was verified, and all operators were in possession of valid certificates.			

<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.			

Ministry of the Environment, Conservation and Parks - Inspection Summary Rating Record (Reporting Year - 2023-24)

**DWS Name:** HURON WOODS DRINKING WATER SYSTEM  
**DWS Number:** 220007775  
**DWS Owner:** THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA  
**Municipal Location:** SOUTH BRUCE PENINSULA

**Regulation:** O.REG. 170/03  
**DWS Category:** DW Municipal Residential  
**Type of Inspection:** Focused  
**Inspection Date:** Sep-28-2023  
**Ministry Office:** Owen Sound District Office

**Maximum Risk Rating:** 514

Inspection Module	Non Compliance Risk (X out of Y)
Capacity Assessment	0/30
Certification and Training	0/42
Logbooks	0/18
Operations Manuals	0/28
Reporting & Corrective Actions	0/42
Source	0/14
Treatment Processes	0/228
Water Quality Monitoring	0/112
<b>Overall - Calculated</b>	<b>0/514</b>

**Inspection Risk Rating:** 0.00%

**Final Inspection Rating:** 100.00%

Ministry of the Environment, Conservation and Parks - Detailed Inspection Rating Record (Reporting Year - 2023-24)

**DWS Name:** HURON WOODS DRINKING WATER SYSTEM  
**DWS Number:** 220007775  
**DWS Owner Name:** THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA  
**Municipal Location:** SOUTH BRUCE PENINSULA

**Regulation:** O.REG. 170/03  
**DWS Category:** DW Municipal Residential  
**Type of Inspection:** Focused  
**Inspection Date:** Sep-28-2023  
**Ministry Office:** Owen Sound District Office

*All legislative requirements were met. No detailed rating scores.*

Maximum Question Rating: 514

Inspection Risk Rating:	0.00%
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FINAL INSPECTION RATING:	100.00%
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