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





# OLIPHANT DRINKING WATER SYSTEM 7 FIDDLEHEAD LANE, SOUTH BRUCE PENINSULA, ON, N0H 2T0 INSPECTION REPORT

# System Number: 220007695

Entity: ONTARIO CLEAN WATER AGENCY THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA Inspection End Date: July 20, 2023 Inspected By: Robert Graham

Badge #: 1667

(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.

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



#### **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
Legislative Requ	uirement(s):		
Not Applicable			
Question:			
	ope of this inspection?		
The primary focus Conservation and drinking water po comprehensive, r	sponse(s)/Corrective Action(s)/O s of this inspection is to confirm co d Parks (MECP) legislation as well plicies and guidelines during the ins multi-barrier approach in the inspect t, and distribution components as w	mpliance with Minis as evaluating confo spection period. Th ction of water syste	ormance with ministry ne ministry utilizes a ms that focuses on the
Act, 2002 (SDWA	er system is subject to the legislati A) and regulations made therein, in (O. Reg. 170/03). This inspection	cluding Ontario Reg	gulation 170/03, "Drinking
evaluated. It rem	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.		
On July 20, 2023, Ministry of the Environment, Conservation and Parks (MECP) Provincial Officer Bob Graham conducted an announced focused inspection of the Oliphant Drinking Water System (DWS). The Oliphant DWS is a Small Municipal Residential DWS 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 Senior Operations Manager Leo-Paul Frigault, Process & Compliance Technician Karla Young, Overall Responsible Operator (ORO) James Learn and Operator Cole Hutchinson.			
Treatment Plant t and a re-chlorina reduce trihalomet switched to chlora the clearwells and 2010/2011 MECF the filters was inter	inspection drinking water was bein to the pumphouse and the Oliphan tion station. Previous to the use of thanes (THMs) in the distribution s amination for secondary disinfection d was also being used to backwas P DWS inspection of the DWS that erfering with the disinfection process ction was being achieved the decise	t DWS was operating a transported wate ystem, the Oliphant on. The chloramina h the filters. It becan the use of chloram ss. As the Owner co	ng as a storage reservoir r system, in an effort to t water treatment plant ted water was stored in me apparent after the inated water to backwash ould not demonstrate that



Wiarton drinking water system was put in place and transported water continues at this time. Ontario Regulation 170/03 Section 5 Exemptions: residential systems gives Oliphant DWS relief from sampling nitrate and nitrite, sodium, fluoride, inorganic and organics while transporting water. During the inspection review period, from August 11, 2022, the day following the last inspection, to the date of inspection on July 20, 2023, there were no Adverse Water Quality Incidents (AWQIs) reported to the MECP Spills Action Centre.

Question ID	DWMR1000000	Question Type	Information
Legislative Requirement(s): Not Applicable			
Question: Does this drinking water system provide primary disinfection?			
Compliance Response(s)/Corrective Action(s)/Observation(s): This drinking water system provides for both primary and secondary disinfection and distribution of water.			
Primony disinfo	tion treatment equipment is install	d howovor it is not i	nuca The Operating

Primary disinfection treatment equipment is installed however it is not in use. The Operating Authority currently re-chlorinates the transported water as needed.

Question ID	DWMR1007000	Question Type	Legislative
Legislative Request SDWA   O. Reg.			
	ntaining the production well(s) in a r ater and other foreign materials?	manner sufficient to	o prevent entry into the
<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.			
transported from was operating as above-ground po manner sufficient	inspection the production wells we the Wiarton Water Treatment Plant a storage reservoir and a re-chlorin rtions of the well(s) determined that to prevent the entry of surface wat ulation and Schedule 1 of O. Reg. 1	t to the pumphouse nation station. A v t the owner is main er and other foreig	e and the Oliphant DWS visual assessment of the ntaining the well(s) in a

Question ID	DWMR1009000	Question Type	Legislative
Legislative Requirement(s): SDWA   31   (1);			



#### **Question:**

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?

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

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 DWMR1014000	Question Type Legislative
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#### Legislative Requirement(s):

SDWA | 31 | (1);

#### Question:

Is there sufficient monitoring of flow as required by the MDWL or DWWP issued under Part V of the SDWA?

#### 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.

The Municipal Drinking Water Licence (MDWL) for the Oliphant DWS (Licence Number 094-105, Issue Number 5) requires monitoring and recording of flow rate and the daily volume of water conveyed into the treatment system and conveyed into the distribution system. Transported water is currently delivered directly into the clearwell so monitoring of flow rate into the treatment system is not necessary. The operating authority continues to monitor and record flow rate and the daily volume of water conveyed into the distribution system.

Question ID	DWMR1016000	Question Type	Legislative
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#### Legislative Requirement(s):

SDWA | 31 | (1);

#### Question:

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?

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

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 MDWL for the Oliphant drinking water system requires monitoring and recording of flow rate



and the daily volume of water conveyed into the treatment system and conveyed into the distribution system.

Transported water is currently delivered directly into the clearwell so monitoring of flow rate into the treatment system is not necessary. The operating authority continues to monitor and record flow rate and the daily volume of water conveyed into the distribution system.

# Question ID DWMR1018000 Question Type Legislative

#### 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.

At the time of inspection the Oliphant DWS was receiving transported water from the Wiarton DWS. Selected equipment was maintained for operation including the high lift pumps, the reservoir/clearwell, the trim chlorination system, analyzers, SCADA system and the back-up power supply system.

Question ID	DWMR1024000	Question Type	Legislative
Logicletive Paguiroment(c):			

Legislative Requirement(s): SDWA | O. Reg. 170/03 | 1-2 | (2);

#### Question:

Do records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated as required?

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

Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection 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.

Question ID	DWMR1034000	Question Type	Legislative		
Legislative Requ	Legislative Requirement(s):				
SDWA   O. Reg. 170/03   7-2   (5); SDWA   O. Reg. 170/03   7-2   (6);					
Question:					



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.

Subsection 7-2 (5) of schedule 7, O.Reg.170/03 the owner of a small municipal residential system that provides secondary disinfection and the operating authority for the system shall ensure that at least two distribution samples are taken each week in accordance with subsection (6) and are tested immediately for, (a) free chlorine residual. 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 2 days each week and at least 48 hours apart.

Question ID	DWMR1035000	Question Type	Legislative
Legislative Requ	uirement(s):		

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4; SDWA | O. Reg. 170/03 | 6-5 | (1)5-10;

#### Question:

Are operators examining continuous monitoring test results and are they examining the results within 72 hours of the test?

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

Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test.

Question ID	DWMR1038000	Question Type	Legislative
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#### Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4;

#### Question:

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.

Question ID	DWMR1037000	Question Type	Legislative
Legislative Requ	lirement(s):		



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:

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?

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

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 distribution water chlorine analyzer has a low, low alarm set point of 0.50 mg\L and a high, high alarm setpoint of 2.0 mg/L, which if triggered notifies operators via an alarm dialer and locks out the high lift pumps. Should the chlorine analyzer read 1.3 mg/L concentration in the clearwell(s) a trim chlorinator is activated to increase chlorine concentration in the clearwell(s).

Question ID	DWMR1040000	Question Type	Legislative

#### Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4; SDWA | O. Reg. 170/03 | 6-5 | (1)5-10;

#### Question:

Are all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?

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

All continuous analysers were calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation.

Question ID DWMR1108000	Question Type	Legislative
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#### Legislative Requirement(s):

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		
Legislative Requ		Question Type	momaton		
Not Applicable Question:					
Do records show	that all water sample results taken s of tables 1, 2 and 3 of the Ontario	<b>U</b> 1	•		
<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	Question ID         DWMR1082000         Question Type         Legislative				
Legislative Requirement(s): 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	s, are all microbiological water qual	lity monitoring requ	irements for distribution		
samples prescrib	ed by legislation being met?	, , , , , , , , , , , , , , , , , , , ,			
All microbiologica	sponse(s)/Corrective Action(s)/O al water quality monitoring requirem les in a small municipal residential	ents prescribed by			
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 ev Reg.170/03.	very week if the system does not me				
Each sample must be tested for HPC	st be tested for EC + TC and, if sec C.	ondary disinfectior	n is provided, must also		

Question ID	DWMR1096000	Question Type	Legislative	
Lagiolativa Bagyiramant/a)				

# Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-3 | (1);

# Question:

Do records confirm that chlorine residual tests are being conducted at the same time and at the



same location that microbiological samples are obtained?

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

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	DWMR1086000	Question Type	Legislative
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#### Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-6.1 | (1); SDWA | O. Reg. 170/03 | 13-6.1 | (2); SDWA | O. Reg. 170/03 | 13-6.1 | (3); SDWA | O. Reg. 170/03 | 13-6.1 | (4); SDWA | O. Reg. 170/03 | 13-6.1 | (5); SDWA | O. Reg. 170/03 | 13-6.1 | (6);

#### Question:

Are all haloacetic acid water quality monitoring requirements prescribed by legislation conducted within the required frequency and at the required location?

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

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

Section 13-6.1 (1)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 that is connected to the drinking water system, that is likely to have an elevated potential for the formation of Haloacetic Acids (HAA), 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 Haloacetic Acids is 80 ug/L, expressed as a Running Annual Average (RAA), where the RAA is defined as the average for quarterly HAA results for a drinking water system. The required sampling for the inspection period was completed and the RAA results were below the O.Reg. 169/03 standard of 80 ug/L.

#### Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-6 | (1); SDWA | O. Reg. 170/03 | 13-6 | (2); SDWA | O. Reg. 170/03 | 13-6 | (3); SDWA | O. Reg. 170/03 | 13-6 | (4); SDWA | O. Reg. 170/03 | 13-6 | (5); SDWA | O. Reg. 170/03 | 13-6 | (6);

#### Question:

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. The standard for THMs is 100  $\mu$ g/L, expressed as a Running Annual Average (RAA), where the RAA is defined as the average for quarterly THM results for a drinking water system. The required sampling for the inspection time period was completed and the RAA results were below the O.Reg. 169/03 standard of 100 ug/L.

Question ID	DWMR1059000	Question Type	Legislative	
Logislative Poquirement(s):				

Legislative Requirement(s): SDWA | O. Reg. 128/04 | 28;

#### Question:

Do the operations and maintenance manuals contain plans, drawings and process descriptions sufficient for the safe and efficient operation of the system?

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

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
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#### Legislative Requirement(s):

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	DWMR1061000	Question Type	Legislative		
Legislative Requ	Legislative Requirement(s):				
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: Are logbooks properly maintained and contain the required information?					
Compliance Response(s)/Corrective Action(s)/Observation(s): Logbooks were properly maintained and contained the required information.					

Event Number: 1-188984771



Question ID	DWMR1062000	Question Type	Legislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 7-5;

#### **Question:**

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
Legislative Requirement(s): 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. The pump house and treatment facility has lockable doors equipped with an intruder alarm. The drilled wells were locked and signage restricts access to the site. At the time of inspection there			
was no apparent visual evidence of unauthorized access and/or vandalism.			
Question ID	DWMR1073000	Question Type	Legislative
Legislative Requirement(s): SDWA   O. Reg. 128/04   23   (1);			
Question:			

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

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

The overall responsible operator had been designated for each subsystem.

The overall responsible operator for the Oliphant DWS is James Learn, with back-up being provided by Billy Shearer.

Question ID	DWMR1074000	Question Type	Legislative
Legislative Requirement(s):			
SDWA   O. Reg. 128/04   25   (1);			



## Question:

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.

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

Question ID	DWMR1076000	Question Type	Legislative	
Legislative Requirement(s): SDWA   O. Reg. 170/03   1-2   (2);				
Question: 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.				

DWS Name:	OLIPHANT DRINKING WATER SYSTEM
DWS Number:	220007695
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:	Jul-20-2023
Ministry Office:	Owen Sound District Office

#### Maximum Risk Rating: 330

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	0/21
Source	0/14
Treatment Processes	0/126
Water Quality Monitoring	0/51
Overall - Calculated	0/330

Inspection Risk Rating: 0.00%

Final Inspection Rating: 100.00%

DWS Name:	OLIPHANT DRINKING WATER SYSTEM
DWS Number:	220007695
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:	Jul-20-2023
Ministry Office:	Owen Sound District Office

All legislative requirements were met. No detailed rating scores.

Maximum Question Rating: 330

Inspection Risk Rating: 0.00%

FINAL INSPECTION RATING: 100.00%