Ministry of Environment, Conservation and Parks Drinking Water and Environmental

Compliance Division

Central Region

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March 27, 2024

Attention: Zach Drinkwalter Township of Ramara CAO

Re: 2023 Drinking Water Inspection Report South Ramara

Please find enclosed the Ministry of the Environment, Conservation and Parks Inspection Report South Ramara (Drinking Water System # 220010681) inspection. The compliance assessment took place on February 13, 2024.

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

Section 19 of the Safe Drinking Water Act (Standard of Care) creates a number of obligations for individuals who exercise decision-making authority over municipal drinking water systems. Please be aware that the Ministry has encouraged such individuals, particularly municipal councillors, to take steps to be better informed about the drinking water systems over which they have decision-making authority. These steps could include asking for a copy of this inspection report and a review of its findings. Further information about Section 19 can be found in "Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils" found under "Resources" on the Drinking Water Ontario website at www.ontario.ca/drinkingwater.

In order to measure individual inspection results, the Ministry has established an inspection compliance risk framework based on the principles of the Inspection, Investigation & Enforcement (II&E) Secretariat and advice of internal and risk experts.

The Inspection Summary Rating Record (IRR), included as Appendix A of the inspection report, provides the Ministry, the system owner and the associated Public Health Units with a summarized quantitative measure of the drinking water system's annual inspection and regulated water quality testing performance. IRR ratings are published (for the previous inspection year) in the Ministry's Chief Drinking Water Inspector's Annual Report.

If you have any questions or concerns regarding the rating, please contact Sheri Broeckel, Drinking Water Program Supervisor, at 1 (705) 716-3712.

If you have any questions or concerns regarding this inspection report, please contact the undersigned.

Carly Munce





SOUTH RAMARA DRINKING WATER SYSTEM
Physical Address: 3001 SUNTRAC DR, , RAMARA,
ON L0K 1B0

# **INSPECTION REPORT**

System Number: 220010681

Entity: CORPORATION OF THE

TOWNSHIP OF RAMARA

Inspection Start Date: February 13, 2024
Site Inspection Date: February 13, 2024
Inspection End Date: March 20, 2024
Inspected By: Carly Munce

Badge #: 1945

Ministry of the Environment, Conservation and Parks

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



Carly Muncs (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.

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### 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.

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## **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>	DWMR1001000	Question Type	Information
	Legislative Requirement(s): Not Applicable		
Question: What was the	Question: What was the scope of this inspection?		

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

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.

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.

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.

The South Ramara Drinking Water System is a Large Municipal Residential drinking water system as defined by Ontario Regulation 170/03 and serves approximately 154 service connections in the Heritage Farm, Mara Shores Estates and Bayview Drive. The South Ramara Drinking Water System is owned by the Corporation of the Township of Ramara and is operated by the Ontario Clean Water Agency (OCWA). The South Ramara Drinking Water System has the drinking water system number 220010681. There are no known designated facilities serviced by the South Ramara Drinking Water System.

The South Ramara Drinking Water System draws water from Lake Simcoe. Treatment consists of chemically assisted filtration and chlorination. Two low lift pumps send water to the pumphouse. Raw water is injected with carbon dioxide for pH adjustment, sodium hypochlorite and poly aluminum chloride. Filtration is achieved in two package treatment units, each including a flocculation tank, settling tank and a mixed media filter. Water is then injected with sodium hypochlorite and contact time is achieved in two clearwells. Two highlift pumps discharge treated water to the distribution system. There are two sample

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stations, one in a former pumphouse, there is a continuous chlorine analyser installed. The chlorine analyser is not considered a regulatory device, but used for operational purposes. There are 9 hydrants installed in the distribution system which are used for flushing and maintenance purposes.

The drinking water inspection included: physical inspection of the treatment equipment and facility; interview with Operating Authority staff; and a review of relevant documents and data from the period of September 9, 2022 to Febuary 13, 2024 (hereafter referred to as the "inspection review period"). The previous inspection of the South Ramara Drinking Water System was conducted on September 9, 2022.

MDWL 147-103 Issue #1 DWWP 147-203 Issue #1.

Question ID	DWMR1000000	Question Type	Information
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## 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.

<b>Question ID</b>	DWMR1012000	<b>Question Type</b>	Legislative

# Legislative Requirement(s):

SDWA | 31 | (1);

#### Question:

Does the owner have a harmful algal bloom monitoring plan in place that meets the requirements of the MDWL?

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

The owner had a harmful algal bloom monitoring plan in place.

## Condition 6 of Schedule C

of Municipal Drinking Water Licence (MDWL) 147-103 Issue Number 4 outlines the requirements of the Harmful Algal Bloom monitoring, reporting and sampling plan required to be in place on or before August 5, 2022. The Plan must be implemented annually during but not limited to the warm seasonal period between June 1 and October 31 each year, or as otherwise directed by the Ministry or local Medical Officer of Health.

The Harmful Algal Boom Plan prepared by the Operating Authority issued May 18, 2022 meets the requirements of the MDWL. Visual inspection of the intake for blue green algae and sampling of the raw and treated water for microcystin began June 6, 2022 and was completed weekly through to October 31, 2022. As well as June 5, 2023 to October 31,

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2023. All microcystin results were below the method detection limit.

Question ID	DWMR1014000	Question Type	Legislative
Legislative R	equirement(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.

## Condition 2.1 of

Schedule C of Municipal Drinking Water Licence 147-103 Issue Number 4 requires that for each treatment subsystem, continuous flow measurement and recording shall be undertaken for the flow rate and daily volume of treated water that flows from the treatment subsystem to the distribution system, and the flow rate and daily volume of water that flows into the treatment subsystem.

There are three magnetic flow meters installed at the South Ramara Water Treatment Plant, one that measures the raw water entering the South Ramara Water Treatment Plant from Lake Simcoe, one that measures the combined filter effluent and one that measures the water entering the distribution system after the high lift pumps. Each of the flow meters provides a 4-20 mA signal. Raw, filtered and treated water flows are continuously recorded on the SCADA system.

Question ID	DWMR1016000	Question Type	Legislative
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.

Table 1 of Schedule C of Municipal Drinking Water Licence 147-103 Issue Number 4 states that the rated capacity for South Ramara Water Treatment System is 387 m3/day. This value was not exceeded during the inspection review period for the amount of water flowing from the treatment subsystem to the distribution system. There is not a maximum flow rate for South Ramara Drinking Water System in Table 2 of Schedule C of Municipal Drinking Water Licence 147-103 Issue Number 4.

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<b>Question ID</b>	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.

## Based on observations made at the

time of inspection it appears that all equipment installed at the South Ramara water treatment plant is as described in Schedule A of Drinking Water Works Permit 147-203 Issue Number 4.

The continuous operational chlorine analyser installed in the distribution system at Mara Shores is not included in the Drinking Water Works Permit.

Schedule C of Drinking Water Works Permit 147-203 Issue Number 4 contains the addition of carbon dioxide injection system for adjusting pH to optimize coagulation from 2013.

Question ID	DWMR1025000	Question Type	Legislative
Legislative Ro	equirement(s):		

### Question:

Were all parts of the drinking water system that came in contact with drinking water (added, modified, replaced or extended) disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?

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

All parts of the drinking water system were disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit.

#### Section 2.3 of Schedule B of

Drinking Water Works Permit 147-203 Issue Number 4 states that all parts of the drinking water system in contact with drinking water that are added, modified, replaced, extended shall be disinfected in accordance with a procedure approved by the Director or in accordance with the applicable provisions of the following documents:

- a) Until August 3, 2022 the ministry's Watermain Disinfection Procedure, dated November 2015. As of August 4, 2022 the ministry's Watermain Disinfection Procedure, dated August 1, 2020.
- b) Subject to condition 2.3.2, any updated version of the ministry's Watermain Disinfection Procedure;
- c) AWWA C652 Standard for Disinfection of Water-Storage Facilities;
- d) AWWA C653 Standard for Disinfection of Water Treatment Plants; and

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e) AWWA C654 – Standard for Disinfection of Wells.

The Operating Authority has developed a Standard Operating Procedure (SOP) for disinfection of drinking water system components. The SOP states that the required standards are to be followed as per the Drinking Water Works Permit.

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

#### Question:

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?

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

Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities required under O. Reg. 170/03 or a Drinking Water Works Permit and/or Municipal Drinking Water Licence issued under Part V of the SDWA at all times that water was being supplied to consumers.

## Primary disinfection for the South Ramara

Drinking Water System is achieved by chemically assisted filtration and the use of the chlorine contact/concentration time (CT) concept to ensure the provision of effective pathogen inactivation. Two package filtration units, each with a flocculation tank, settling tank and mixed media filter, filter the water after raw water is injected with carbon dioxide, sodium hypochlorite and poly aluminum chloride. One filter train operates at a time. The effective disinfectant contact time required for the CT concept is attained within the two clearwells, one with an approximate operation volume of 103 m3 and one with an approximate operation volume of 66 m3. The clearwells are configured in series. Following completion of the intended contact time, free chlorine residuals are maintained within the distribution system for secondary disinfection purposes.

In efforts to ensure minimum treatment is provided at all times, a series of fail safes have been incorporated into the SCADA system. The alarm set points are at levels intended to afford operators time to respond prior to the chlorine residual dropping below the level required for primary disinfection. Operators perform CT calculations in the event of a low chlorine alarm to confirm that primary disinfection has been achieved. Alarms are tested regularly to ensure they are functioning properly.

During the inspection review period readings that were above or below the alarm set points were the result of maintenance activities, such as cleaning the analysers, flushing analysers, performing analyser verifications, changing electrolyte or probes, or testing alarms. In fourteen instances there were readings that were outside of the normal operating range that were not the result of maintenance activities and operators responded to each of these instances. Corrective measures were undertaken, and disinfection was not compromised in each instance.

The filter performance criteria as outlined in section 1 of Schedule E of Municipal Drinking Water Licence 147-103 issue number 4 were met during the inspection review period

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including filtered water turbidity of less than or equal to 0.3 NTU in 95% of the measurements each month.

In order to determine if primary disinfection was achieved at the South Ramara Drinking Water System during the inspection review period, flow rates, free chlorine residuals, turbidity values, clearwell levels, logsheets and logbooks were reviewed. These records indicate that during the inspection review period the treatment equipment was operated as required to achieve the disinfection requirements whenever water was being supplied.

Question ID	DWMR1026000	Question Type	Legislative
•	<b>equirement(s):</b> eg. 170/03   1-6   (1);		

## Question:

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?

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

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.

Question ID	DWMR1024000	<b>Question Type</b>	Legislative
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.

Section 1-2. (2) 4. of Schedule 1 of Ontario Regulation 170/03

requires that if the drinking water system's water treatment equipment provides chlorination or chloramination for secondary disinfection, the equipment is operated so that, at all times and at all locations within the distribution system, the free chlorine residual is never less than 0.05 mg/L, if the drinking water system provides chlorination and does not provide chloramination.

During the inspection review period there were no free chlorine residual results recorded below 0.05 mg/L. The lowest recorded distribution free chlorine reading during the inspection review period was 0.15 mg/L.

At the time of inspection, the operator took a a free chlorine residual of 1.19 mg/L

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when the analyser read 1.17 mg/L at Mara Shores.

<b>Question ID</b>	DWMR1033000	Question Type	Legislative
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## Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 7-2 | (3); SDWA | O. Reg. 170/03 | 7-2 | (4);

#### Question:

Is the secondary disinfectant residual measured as required for the large municipal residential distribution system?

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

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

There is a continuous chlorine analyser installed in the

South Ramara distribution system at Mara Shores. This analyser is considered an operational analyser, not a regulatory analyser, by the Operating Authority. Operators log on to view the value being recorded by the operational analyser once per day and record the value for the purpose of secondary disinfection monitoring. Operators also routinely check the free chlorine residual at other locations in the distribution system. Records were made of at least one distribution free chlorine residual reading each day of the inspection review period.

Question ID DWMR1030000 Question ID	uestion Type Legislative
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### **Legislative Requirement(s):**

SDWA | O. Reg. 170/03 | 7-2 | (1); SDWA | O. Reg. 170/03 | 7-2 | (2);

#### Question:

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.

Question ID	DWMR1032000	Question Type	Legislative
Legislative Requirement(s):			

SDWA | O. Reg. 170/03 | 7-3 | (2);

## Question:

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?

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

Continuous monitoring of each filter effluent line was being performed for turbidity.

<b>Question ID</b>	DWMR1035000	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;

#### 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.

Subsection 6-5. (1) 3. of Schedule 6 of Ontario

Regulation 170/03 requires that test results recorded under paragraph 1 or 2 must be examined, within 72 hours after the tests are conducted by a certified operator, in the case of, a large municipal residential system, such as South Ramara Drinking Water System. During the inspection review period records indicate that trending data was reviewed within 72 hours of the test being conducted. Operators are able to log on remotely to view the continuous analyser data. The Operating Authority has developed a Standard Operating Procedure for how Operators are to complete the review of continuous monitoring data.

Question ID	DWMR1038000	<b>Question Type</b>	Legislative
Legislative Re SDWA   O. Reg	<b>quirement(s):</b> g. 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.

The frequency of recording and the setpoints for turbidity and chlorine monitoring at South Ramara Drinking Water System exceed the standards contained in the Table in Schedule 6 of Ontario Regulation 170/03 for primary disinfection monitoring. There is a continuous chlorine analyser installed at Mara Shores in the distribution system. The Operating Authority does not consider this analyser to be a regulatory analyser. Operators are able to view the free chlorine residuals measured by the continuous analyser

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remotely. Daily an Operator will log on and view and record the free chlorine residual being measured at that time and record it on the daily spreadsheet for the purpose of secondary disinfection monitoring. The analyser records values every two minutes.

Question ID	DWMR1037000	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:

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.

Question ID   DWMR1040000   Question Type   Legislat
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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;

#### 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.

Subsection 6-5 (1) 8 of Schedule 6 of Ontario

Regulation 170/03 states that the continuous monitoring equipment must be checked and calibrated in accordance with the manufacturer's instructions. Subsection 6-5(1)10 states that if the manufacturer's instructions do not indicate how often to check and calibrate the continuous monitoring equipment and paragraph 9 does not apply, the equipment must be checked and calibrated as often as necessary to ensure that test results are within the following margins of error: i. In the case of free chlorine residual, 0.05 milligrams per litre, if the concentrations usually measured by the equipment are less than or equal to 1.0 milligrams per litre, and proportionally higher if the concentrations usually measured are greater than 1.0 milligrams per litre, ii. In the case of free chlorine residual and total chlorine residual measured for the purpose of determining combined chlorine residual, 0.05 milligrams per litre, if the concentrations usually measured by the equipment are less than or equal to 1.0 milligrams per litre, and proportionally higher if the concentrations usually

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measured are greater than 1.0 milligrams per litre, iii. 0.1 Nephelometric Turbidity Units (NTU), in the case of turbidity.

Annually a third party performs calibrations on the continuous analysers, including the analyser installed in the distribution system. Operators regularly perform maintenance on the analysers including flushing, probe checks and add or change electrolyte as required. Operators make comparisons of the continuous chlorine analysers with handheld units regularly and make adjustments when the difference is more than approximately 0.2 mg/L. The turbidity analysers were regularly verified with dry standards during the inspection review period.

<b>Question ID</b>	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.

## According to the South

Ramara logbook an Operator responded to alarms during the inspection review period. Responses were in a timely manner and appropriate actions were taken for each event. Data recorded by the continuous analysers confirmed that there were no other instances when an alarm should have been generated during the inspection review period.

Question ID	DWMR1039000	<b>Question Type</b>	Legislative
Legislative Requirement(s): SDWA   O. Reg. 170/03   1-6   (3);			

## Question:

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?

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

The owner and operating authority ensured that the primary disinfection equipment had a recording device that continuously recorded the performance of the disinfection equipment.

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	Question ID	DWMR1109000	Question Type	Legislative
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# Legislative Requirement(s):

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

#### Question:

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>	DWMR1099000	Question Type	Information
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## Legislative Requirement(s):

Not Applicable

#### Question:

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)?

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

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 IDDWMR1081000Question TypeLegislative

### **Legislative Requirement(s):**

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.

### Subsection

10-2. of Schedule 10 of Ontario Regulation 170/03 requires that the owner of a drinking

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water system and the operating authority for the system shall ensure that if the system serves 100,000 people or less, at least eight distribution samples, plus one additional distribution sample for every 1,000 people served by the system, are taken every month, with at least one of the samples taken in each week. The owner of the drinking water system and the operating authority for the system shall ensure that each of the samples taken is tested for Escherichia coli and total coliforms and at least 25 per cent of the samples required to be taken are to be tested for general bacteria population expressed as colony counts on a heterotrophic plate count (HPC).

The population served by the South Ramara Drinking Water System is less than 1000 people. As such, 8 distribution samples are required to be collected each month. During the inspection review period two distribution samples were taken each week and tested for the required parameters, including all samples being tested for HPC.

Question ID	DWMR1083000	Question Type	Legislative
Legislative Requirement(s):			

## Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 10-3;

## Question:

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

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

All microbiological water quality monitoring requirements prescribed by legislation for treated samples were being met.

Subsection 10-3 of Schedule 10 of Ontario Regulation

170/03 requires that the owner of a large municipal residential drinking water system and the operating authority for the system shall ensure that a treated water sample is taken at least once every week and tested for Escherichia coli, total coliforms, and general bacteria population expressed as colony counts on a heterotrophic plate count.

A week is defined in section 1 of Ontario Regulation 170/03 as a period of seven days that begins on Sunday and ends on the following Saturday.

During the inspection review period a treated water sample was collected each week and tested for the required parameters.

Question ID	DWMR1096000	Question Type	Legislative
Legislative Requirement(s):			

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

# 5DVA | 5. Reg. 176/03 | 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.

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Question ID	DWMR1084000	Question Type	Legislative
Legislative Requirement(s):			
SDWA   O. Re	eg. 170/03   13-2;		

#### Question:

Are all inorganic water quality monitoring requirements prescribed by legislation conducted within the required frequency?

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

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

Subsection 13-2 (1) of Schedule 13 of Ontario

Regulation 170/03 requires that the owner of a large municipal residential system and the operating authority for the system shall ensure that, at least one water sample is taken every 12 months and tested for every parameter set out in Schedule 23 if the system obtains water from a raw water supply that is surface water such as South Ramara Drinking Water System.

During the inspection review period treated water samples were tested for all Schedule 23 parameters on August 14, 2023. Prior to that, treated water samples were tested for all Schedule 23 parameters on August 3, 2022.

Question ID	DWMR1085000	<b>Question Type</b>	Legislative
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## Legislative Requirement(s):

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

## Question:

Are all organic water quality monitoring requirements prescribed by legislation conducted within the required frequency?

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

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

Subsection 13-4 (1) of Schedule 13 of Ontario Regulation

170/03 requires that the owner of a large municipal residential system and the operating authority for the system shall ensure that, at least one water sample is taken every 12 months and tested for every parameter set out in Schedule 24 if the system obtains water from a raw water supply that is surface water such as South Ramara Drinking Water System.

During the inspection review period treated water samples were tested for all Schedule 24 parameters on August 14, 2023. Prior to that, treated water samples were tested for all Schedule 24 parameters on August 3, 2022.

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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 of

Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of haloacetic acids (HAA), and have the samples tested for haloacetic acids. The standard of 0.80 mg/L for HAA as a reportable limit came into effect on January 1, 2020.

During the inspection review period a sample was collected from the South Ramara distribution system in November 7of 2022

February 2, May 1, August 2, and November 6 of 2023. February 5 of 2024 and tested for HAA as required. The

average for HAA during the inspection review period was 56.7 ug/L. The running annual average for the two quarters prior to the inspection review period and the two quarters from the inspection review period was 64.7ug/L. The RAA for the inspection period was 55.7ug/L. The Operating Authority monitors the average of HAA for the South Ramara Drinking Water System. At this time no studies have been undertaken to investigate ways that the level of HAA could be reduced. It is recommended that the Owner and Operating Authority consider conducting a study to determine what steps could be taken to reduce the HAA levels, such as alterations to pH adjustment and chemical additions to try and reduce HAA levels.

Question ID	DWMR1087000	Question Type	Legislative
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### 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?

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## 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 of Ontario Regulation 170/03 requires that the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of trihalomethanes (THMs). The samples are to be tested for THMs. During the inspection review period samples were collected and tested for THMs from the

South Ramara distribution system in

November 7, 2022, February 6, May 1, August 2, and November 6, of 2023. February 5, of 2024. The average for THMs

during the inspection review period was 79.5 ug/L.

The Operating Authority monitors the average of THMs for the South Ramara Drinking Water System. At this time no studies have been undertaken to investigate ways that the level of THMs could be reduced. It is recommended that the Owner and Operating Authority consider conducting a study to determine what steps could be taken to reduce the THM levels, such as alterations to pH adjustment and chemical additions to try and reduce THM levels.

Question ID	DWMR1088000	Question Type	Legislative

# Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-7;

#### Question:

Are all nitrate/nitrite water quality monitoring requirements prescribed by legislation conducted within the required frequency for the DWS?

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

All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency.

Section 13-7, of Schedule 13 of

Ontario Regulation 170/03 requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every three months and tested for nitrate and nitrite.

During the inspection review period samples tested for nitrate and nitrite were collected as required from the treated water point of entry for South Ramara Drinking Water System in November 7, of 2022. February 6, May 1, August 1, and November 6 of 2023. February 5, 2024.

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Question ID	DWMR1089000	Question Type	Legislative	
Legislative Requirement(s):				
SDWA   O. Re	eg. 170/03   13-8;			

### Question:

Are all sodium water quality monitoring requirements prescribed by legislation conducted within the required frequency?

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

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

Section 13-8 of Schedule 13 of Ontario Regulation 170/03

requires that the owner of a drinking water system and the operating authority for the system shall ensure that at least one water sample is taken every 60 months and tested for sodium.

Section 6-1.1 (7) of Schedule 6 of Ontario Regulation 170/03 states that if this Regulation requires at least one water sample to be taken every 60 months and tested for a parameter, the owner of the drinking water system and the operating authority for the system shall ensure that at least one sample that is taken during a 60-month period and for the purpose of being tested for that parameter is taken not more than 90 days before or after the fifth anniversary of the day a sample was taken for that purpose in the previous 60-month period.

The most recent treated water sample tested for sodium was collected on August 12, 2020 from the South Ramara Drinking Water System with a result of 32 mg/L. A resample was collected to be tested for sodium on August 24, 2020 with a result of 33.1 mg/L. Sodium results greater than 20 mg/L are an ongoing occurrence for the South Ramara Drinking Water System.

Question ID	DWMR1090000	Question Ty	ре	Legislative
	<b>equirement(s):</b> eg. 170/03   13-9;			

### Question:

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

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

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

Section 13-9 of Schedule 13 of Ontario Regulation 170/03

requires that if a drinking water system does not provide fluoridation, the owner of the system and the operating authority for the system shall ensure that a water sample is taken at least once every 60 months and tested for fluoride.

Section 6-1.1 (7) of Schedule 6 of Ontario Regulation 170/03 states that if this Regulation requires at least one water sample to be taken every 60 months and tested for a parameter, the owner of the drinking water system and the operating authority for the system shall

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ensure that at least one sample that is taken during a 60-month period and for the purpose of being tested for that parameter is taken not more than 90 days before or after the fifth anniversary of the day a sample was taken for that purpose in the previous 60-month period. A treated water sample was collected on August 3, 2022 and tested for fluoride. Prior to

that, a sample was collected on August 15, 2017, from the treated water sample point at South Ramara Drinking Water System and tested for fluoride.

Question ID	DWMR1113000	Question Type	Legislative	
Legislative Requirement(s):				
SDWA   O. Re	eg. 170/03   10.1   (3);			

#### Question:

Have all changes to the system registration information been provided to the Ministry within ten (10) days of the change?

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

All changes to the system registration information were provided within ten (10) days of the change.

<b>Question ID</b>	DWMR1059000	Question Type	Legislative
Legislative R	equirement(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.

## The South Ramara

Water Works Operations and Maintenance Manual was updated with Ontario Clean Water Agency (OCWA) procedures in December 2021 and revised in November of 2022 and the updated Permit and Approval was

included in May 2022. The Manual includes an overview of the facility, operation and maintenance programs for the different treatment equipment components, emergency generator and distribution system components. Water quality and flow monitoring maintenance and requirements as well as record and reporting requirements are detailed. The manual includes a CT calculation worksheet.

Contingency and Emergency plans are available to deal with potential problems that may arise with the drinking water system.

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Question ID	DWMR1060000	Question Type	Legislative
Legislative R	equirement(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.

Section 16.2 of Schedule B of Municipal Drinking Water Licence 147-103 Issue Number 4 requires that the operations and maintenance manual or manuals, shall include at a minimum:

- 16.2.1 The requirements of this licence and associated procedures;
- 16.2.2 The requirements of the drinking water works permit for the drinking water system;
- 16.2.3 A description of the processes used to achieve primary and secondary disinfection within the drinking water system, including where applicable:
- a) A copy of the CT calculations that were used as the basis for primary disinfection under worst case operating conditions and other operating conditions, if applicable; and
- b) The validated operating conditions for UV disinfection equipment, including a copy of the validation certificate;
- 16.2.4 Procedures for monitoring and recording the in-process parameters necessary for the control of any treatment subsystem and for assessing the performance of the drinking water system;
- 16.2.5 Procedures for the operation and maintenance of monitoring equipment;
- 16.2.6 Contingency plans and procedures for the provision of adequate equipment and material to deal with emergencies, upset conditions and equipment breakdown;
- 16.2.7 Procedures for dealing with complaints related to the drinking water system, including the recording of the nature of the complaint and any investigation and corrective action taken in respect of the complaint.

The South Ramara Water Works Operations and Maintenance Manual and Contingency and Emergency Plan meet the requirements of the Municipal Drinking Water Licence.

<b>Question ID</b>	DWMR1061000	<b>Question Type</b>	Legislative

### **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.

The South Ramara Drinking Water System is comprised of a Water Distribution Class I

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and Water Treatment Class II subsystem. The Overall Responsible Operator is designated for both of the subsystems. The Operator acting as the ORO is indicated in the electronic logbook on each day that entries are made.

Question ID	DWMR1062000	<b>Question Type</b>	Legislative
Legislative R	equirement(s):		
SDWA   O. Re	eg. 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 R	equirement(s):		

Not Applicable

## **Question:**

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

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

The owner had provided security measures to protect components of the drinking water system.

The sample stations and pumphouse are locked. The pumphouse is also alarmed for forced entry. The reservoir hatches are located within the pumphouse building. The intake structure is not marked. Operators regularly check all components to ensure they are secure and have not been tampered with.

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.

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The South Ramara Drinking Water System is comprised of a Water Distribution Class I and Water Treatment Class II subsystem. The Overall Responsible Operator is designated for both of the subsystems. The Operator acting as the ORO is indicated in the electronic logbook on each day that entries are made.

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.

The South Ramara Drinking Water System is comprised of a Water Distribution Class I and Water Treatment Class II subsystem. The Operator In Charge (OIC) is designated for both of the subsystems. The Operator acting as the OIC is indicated in the electronic logbook on each day that entries are made

Question ID	DWMR1075000	Question Type	Legislative
Legislative Requirement(s):			
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?

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

Only certified operators made adjustments to the treatment equipment.

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Ministry of the Environment, Conservation and Parks

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



 Question ID
 DWMR1117000
 Question Type
 Information

Legislative Requirement(s):

Not Applicable

Question:

Are there any other DWS related items that should be recognized in this report?

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

The following items are noted as being relevant to the Drinking Water System:

The

Operating Authority collected treated water samples to be tested for aluminium at least monthly during the inspection review period to aid in process optimization.

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

**DWS Name:** SOUTH RAMARA DRINKING WATER SYSTEM

**DWS Number:** 220010681

DWS Owner: CORPORATION OF THE TOWNSHIP OF RAMARA

**Municipal Location: RAMARA** 

Regulation: O.REG. 170/03

**DWS Category:** DW Municipal Residential

Type of Inspection: Focused
Inspection Date: Feb-13-2024
Ministry Office: Barrie District Office

**Maximum Risk Rating:** 511

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	0/46
Source	0/0
Treatment Processes	0/235
Water Quality Monitoring	0/112
Overall - Calculated	0/511

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:** SOUTH RAMARA DRINKING WATER SYSTEM

**DWS Number:** 220010681

DWS Owner Name: CORPORATION OF THE TOWNSHIP OF RAMARA

Municipal Location: RAMARA

Regulation: O.REG. 170/03

**DWS Category:** DW Municipal Residential

Type of Inspection: Focused
Inspection Date: Feb-13-2024
Ministry Office: Barrie District Office

All legislative requirements were met. No detailed rating scores.

**Maximum Question Rating: 511** 

Inspection Risk Rating: 0.00%

FINAL INSPECTION RATING: 100.00%