# Brechin and Lagoon City Drinking Water System

Waterworks # 210001273 System Category – Large Municipal Residential

### **Annual Water Report**

Prepared For: The Township of Ramara

Reporting Period of January 1st – December 31st, 2024

Issued: February 26, 2025

Revision: 0

**Operating Authority:** 



# Rev. 0 Brechin & Lagoon City Drinking Water System – 2024 Annual Reports Issued: February 26, 2025

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#### **Report Availability**

This system does <u>not</u> serve more than 10,000 residence and the annual reports will be available to residents at the Township Of Ramara Administration Office and on the Township's website at <u>www.ramara.ca</u>. Notification that reports are available free of charge will be made on the Township of Ramara website. The Township of Ramara Administration Office is located at 2297 Highway 12, Brechin, ON LOK 1B0.

#### **Compliance Report Card**

**Drinking Water System Number:** 210001273

Drinking Water System Name: Brechin and Lagoon City DWS

**Drinking Water System Owner:** Township of Ramara

**Drinking Water System Category:** Large Municipal Residential **Period Being Reported:** January 1, 2024 - December 31, 2024

Health & Safety	# of Events	Date	Details
Number of Incidents	0	N/A	N/A

Drinking Water	# of Events	Date	Details
MECP Inspections	0	N/A	Inspection for 2023/2024 inspection cycle completed in January 2024. Final inspection rating – 100%.  Inspection for 2024/2025 completed in August 2024. Final inspection rating not yet received at time of report issuance.
AWQI's	0	N/A	N/A
Number of Non- Compliances	0	N/A	N/A
Number of Boil Water Advisories	0	N/A	N/A

#### **System Process Description**

#### Raw Source

The Brechin and Lagoon City DWS is supplied with surface water from Lake Simcoe.

#### **Treatment**

The treatment system is a dual train direct filtration package plant consisting of the following:

- Raw water is sourced from Lake Simcoe through an intake well with two (2) removable screens further the low lift pumping station consisting of three (3) low lift pumps
- Inlet line connected to sodium hypochlorite and a coagulant feed line diffuser
- Raw water flow meter and turbidity analyzer
- Carbon Dioxide injection system for adjusting pH to optimize coagulation process with a metering panel equipped with actuated control valve and bypass piping, gas feed flowmeter, filter, carbon dioxide gas pressure regulator and isolating manual ball valves
- Coagulant is added to the raw water intake well at the low lift pumping station
- Four (4) spiral flow flocculation tanks allows for floc to settle
- Two (2) filter-absorber units each consisting of granular activated carbon over sand and gravel with three backwash troughs and two surface water agitators and an underdrain
- Continuously monitoring turbidity analyzers on each filter line
- Waste backwash holding tank with discharge to sanitary sewer
- Chlorine injection system
- Single in-ground clearwell with five (5) highlift pumps
- Chlorine residual and pH analyzers prior to distribution connection
- Water tower
- SCADA computer control system
- Standby power generator

#### **Treatment Chemicals used during the reporting year:**

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
Poly-Aluminum Chloride	Flocculation	Brenntag
Carbon Dioxide	pH Optimization	Praxair

#### **Summary of Non-Compliance**

#### **Adverse Water Quality Incidents / Operations Events**

Date	Event #	Location	Problem	Details	Corrective Action Taken
February 1, 2024	1- 4MME FH	Water Tower	Spill	Malfunction at the plant caused a high lift pump to not shut off resulting in the tower overfilling.	Shut off pump and took out of service until problem was repaired.

#### **Non-Compliance**

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. date(s))	Corrective Action	Status		
There were no non-compliances during the reporting period.						

#### Non-Compliance Identified in a Ministry Inspection:

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. date(s))	Corrective Action	Status
There were r	no non-compliances	identified in a Ministry	inspection duri	ng the reporting

#### **Flows**

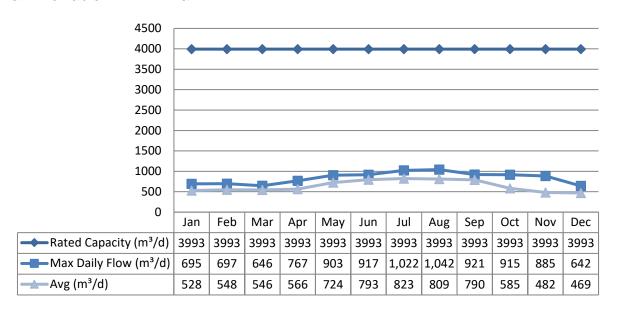
The Brechin and Lagoon City Drinking Water System is operating on average under half the rated capacity. Although the system is typically operating well under design capacity, significant weather events like snowmelt and rainfall create major operational challenges seasonally at the facility. The plant is unable to handle the substantial changes in raw water characteristics caused by these events, such as turbidity and colour. As a result, the facility cannot produce water at a rate that can meet demand during these times potentially compromising water supply, system pressure and fire protection.

#### **Raw Water Flows**

The Permit to Take Water compliance criteria is in litres per minute (L/min) but for the purposes of this report the flow rate is reported in litres per second (L/sec) based on industry standard for flow monitoring recording. The Raw Water flows are regulated under the Permit to Take Water. 2024 Raw Flow Data was submitted to the Ministry electronically under permit No. 0278-AQ4LYS. The confirmation and a copy of the data that was submitted are attached in Appendix A.

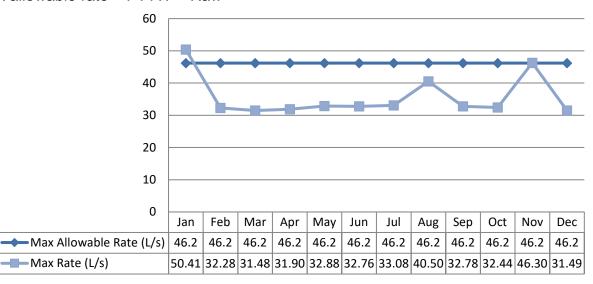
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## Total Monthly Flows (m³/d) Max Allowable PTTW – Raw



#### Monthly Rated Flows (L/s)

Max allowable rate - PTTW - Raw



Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s) caused by calibrations and maintenance. All spikes are reviewed for compliance.

#### **Treated Water Flows**

The Treated Water flows are regulated under the Municipal Licence. The average water consumption for the Brechin/Lagoon City Drinking Water System during 2024 was: 657 m³/day.

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#### Brechin Lagoon City Drinking Water System Historical Demands

Year	Number of Connections	Average Daily Demand	Maximum Daily Demand	Rated Capacity	Consu	Capita mption* //day)
		(m³)	(m³/day)		Average	Maximum
2014	1258	783	1239	4000	297	476
2015	1261	781	1670	4000	299	639
2016	1264	837	1546	4000	320	591
2017	1269	699	1207	4000	266	459
2018	1273	870	1829	4000	329	694
2019	1274	893	1798	4000	317	681
2020	1279	676	1333	4000	242	644
2021	1279	684	1090	4000	245	390
2022	1286	719	1246	4000	269	467
2023	1288	636	1072	4000	238	401
2024	1288	657	1107	4000	246	414
3 Year Av	verage/Max	671	1246	4000	251	467

<sup>\*</sup>Based on estimated service connections in Lagoon City and Brechin: 1,132 and 156 single family dwellings. The estimated population in Lagoon City: 2,264 (based on a population density of 2.0 persons per dwelling), and the estimated population in Brechin: 406 (based on a population density of 2.6 persons per dwelling). Assumptions made on location of new developments for 2024 connections for population estimation.

Note: Excluding pipe leaks/breaks & system flushing

**Note:** This calculation was completed based on current connections in the system, growth within the drinking water system has not been considered.

#### **System Reserve Capacity**

In accordance with the MECP Procedure D-5-1, the reserve capacity is calculated by the following formula:

Reserve Capacity= Design Flow- Committed Flow

Design flow is the maximum permissible flow approved by the MDWL and/or PTTW. Brechin Lagoon City Water Works maximum daily rated capacity is 4000 m³/day.

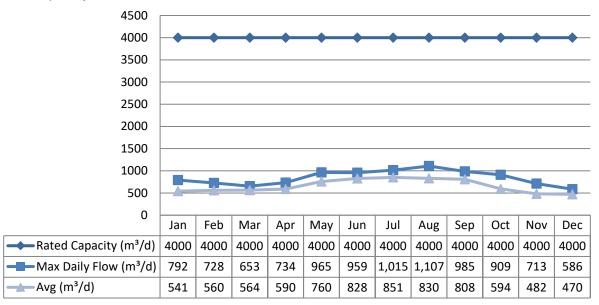
The committed flow is the total expected water demand from the existing and proposed connections based on the previous three years of data. The committed number of service connections is: 1367. The committed population used for this calculation is 2871 (based on an average population density of 2.1 persons per dwelling). The three-year (2022-2024) maximum per capita water consumption is: 467 L/p/day. At this water consumption rate, the committed flow is: 1341 m³/day.

As a result, the calculated reserve capacity is: 2659 m³/day\*.

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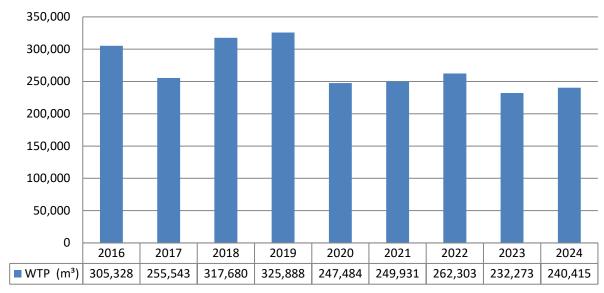
\*Note: The reserve capacity calculation is based off facility design criteria and does not take into consideration any operational challenges.

# Monthly Rated Flows Rated Capacity – MDWL



#### Annual Total Flow Comparison

#### Total Annual m<sup>3</sup>



#### **Regulatory Sample Results Summary**

#### **Microbiological Testing**

	No. of Samples Collected	Range of E. Coli Results		Range of Total Coliform Results			of HPC sults
		Min	Max	Min	Max	Min	Max
Raw	52	0	4*	0	217*	N/A	N/A
Treated	56	0	0	0	0	0	13
Distribution	161	0	0	0	0	0	780

<sup>\*</sup>Note: Three result for raw water resulted in Total Coliform and E. Coli as NDOGT (No Data: Overgrown with Target Bacteria).

#### **Operational Testing**

	No. of Samples	Range of	Results
	Collected	Minimum	Maximum
Turbidity – Filter Line 1 (NTU)	8760	0.00	2.00
Turbidity – Filter Line 2 (NTU)	8760	0.00	2.00
Turbidity-Treated (NTU)	8760	0.00	2.00
Treated Water Chlorine	8760	0.25	5.15
Distribution Water Chlorine	366	0.72	2.47
Fluoride (If the DWS provides	N/A	N/A	N/A
fluoridation)			

**Note:** Record the unit of measure if it is **not** milligrams per litre.

**Note:** For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

#### **Inorganic Parameters**

These parameters are tested as a requirement under O. Reg. 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under O. Reg. 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Method Detection Limit

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	Sample Date	Sample	MAC	Exceedances	
	(yyyy/mm/dd)	Result .		MAC	1/2 MAC
Treated Water					
Antimony: Sb (ug/L) - TW	2024/08/06	<mdl 0.6<="" td=""><td>6.0</td><td>No</td><td>No</td></mdl>	6.0	No	No
Arsenic: As (ug/L) - TW	2024/08/06	0.3	10.0	No	No
Barium: Ba (ug/L) - TW	2024/08/06	28.9	1000.0	No	No
Boron: B (ug/L) - TW	2024/08/06	21.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2024/08/06	0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2024/08/06	0.20	50.0	No	No
Mercury: Hg (ug/L) - TW	2024/08/06	<mdl 0.01<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Selenium: Se (ug/L) - TW	2024/08/06	0.08	50.0	No	No
Uranium: U (ug/L) - TW	2024/08/06	0.22	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2022/08/03	<mdl 0.06<="" td=""><td>1.5</td><td>No</td><td>No</td></mdl>	1.5	No	No
Nitrite (mg/L) - TW	2024/02/05	<mdl< td=""><td>1.0</td><td>No</td><td>No</td></mdl<>	1.0	No	No
		0.003			
Nitrite (mg/L) - TW	2024/05/06	<mdl< td=""><td>1.0</td><td>No</td><td>No</td></mdl<>	1.0	No	No
	2221/22/22	0.003			
Nitrite (mg/L) - TW	2024/08/06	<mdl< td=""><td>1.0</td><td>No</td><td>No</td></mdl<>	1.0	No	No
Nitrita (manyll) TM	0004/44/04	0.003	4.0	NI-	NI-
Nitrite (mg/L) - TW	2024/11/04	<mdl< td=""><td>1.0</td><td>No</td><td>No</td></mdl<>	1.0	No	No
Nitrate (mg/L) - TW	2024/02/05	0.003 0.113	10.0	No	No
	2024/05/06	0.113	10.0	No	No
Nitrate (mg/L) - TW Nitrate (mg/L) - TW	2024/03/06	0.22	10.0	No	No
Nitrate (mg/L) - TW	2024/08/08	0.047	10.0	No	No
Sodium: Na (mg/L) - TW	2020/08/12	34.8	20*	Yes	Yes
	2020/08/12	31.5	20*	Yes	Yes
Sodium: Na (mg/L) - TW	2020/00/24	31.3	20	162	162

<sup>\*</sup>There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

#### **Schedule 15 Sampling:**

The Schedule 15 Sampling is required under O. Reg. 170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	Number of Samples	Range of Results Minimum	Range of Results Maximum	MAC (ug/L)	Number of Exceedances
Alkalinity (mg/L)	4	114	134	N/A	N/A
pН	4	7.4	7.5	N/A	N/A
Lead (ug/l)	0	-	-	10	0

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Note: Lead is required to be sampled every 3 years and was last sampled in 2022.

#### **Organic Parameters**

These parameters are tested annually as a requirement under O.Reg 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

	Sample Date Sample		MAC	Number of Exceedances	
	(yyyy/mm/dd)	Result	IVIAC	MAC	1/2 MAC
Treated Water					
Alachlor (ug/L) - TW	2024/08/06	<mdl 0.02<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2024/08/06	0.02	5.00	No	No
Azinphos-methyl (ug/L) - TW	2024/08/06	<mdl 0.05<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Benzene (ug/L) - TW	2024/08/06	<mdl 0.32<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2024/08/06	<mdl 0.004</mdl 	0.01	No	No
Bromoxynil (ug/L) - TW	2024/08/06	<mdl 0.33<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Carbaryl (ug/L) - TW	2024/08/06	<mdl 0.05<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Carbofuran (ug/L) - TW	2024/08/06	<mdl 0.01<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2024/08/06	<mdl 0.17<="" td=""><td>2.00</td><td>No</td><td>No</td></mdl>	2.00	No	No
Chlorpyrifos (ug/L) - TW	2024/08/06	<mdl 0.02<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Diazinon (ug/L) - TW	2024/08/06	<mdl 0.02<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Dicamba (ug/L) - TW	2024/08/06	<mdl 0.2<="" td=""><td>120.00</td><td>No</td><td>No</td></mdl>	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2024/08/06	<mdl 0.41<="" td=""><td>200.00</td><td>No</td><td>No</td></mdl>	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2024/08/06	<mdl 0.36<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2024/08/06	<mdl 0.35<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2024/08/06	<mdl 0.33<="" td=""><td>14.00</td><td>No</td><td>No</td></mdl>	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2024/08/06	<mdl 0.35<="" td=""><td>50.00</td><td>No</td><td>No</td></mdl>	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2024/08/06	<mdl 0.15<="" td=""><td>900.00</td><td>No</td><td>No</td></mdl>	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2024/08/06	<mdl 0.19<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Diclofop-methyl (ug/L) - TW	2024/08/06	<mdl 0.4<="" td=""><td>9.00</td><td>No</td><td>No</td></mdl>	9.00	No	No
Dimethoate (ug/L) - TW	2024/08/06	<mdl 0.06<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Diquat (ug/L) - TW	2024/08/06	<mdl 1.0<="" td=""><td>70.00</td><td>No</td><td>No</td></mdl>	70.00	No	No
Diuron (ug/L) - TW	2024/08/06	<mdl 0.03<="" td=""><td>150.00</td><td>No</td><td>No</td></mdl>	150.00	No	No
Glyphosate (ug/L) - TW	2024/08/06	<mdl 1.0<="" td=""><td>280.00</td><td>No</td><td>No</td></mdl>	280.00	No	No
Malathion (ug/L) - TW	2024/08/06	<mdl 0.02<="" td=""><td>190.00</td><td>No</td><td>No</td></mdl>	190.00	No	No
Metolachlor (ug/L) - TW	2024/08/06	0.01	50.00	No	No
Metribuzin (ug/L) - TW	2024/08/06	<mdl 0.02<="" td=""><td>80.00</td><td>No</td><td>No</td></mdl>	80.00	No	No

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	Sample Date	Sample		Number of Exceedances	
	(yyyy/mm/dd)	Result	MAC	MAC	1/2 MAC
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2024/08/06	<mdl 0.3<="" td=""><td>80.00</td><td>No</td><td>No</td></mdl>	80.00	No	No
Paraquat (ug/L) - TW	2024/08/06	<mdl 1.0<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
PCB (ug/L) - TW	2024/08/06	<mdl 0.04<="" td=""><td>3.00</td><td>No</td><td>No</td></mdl>	3.00	No	No
Pentachlorophenol (ug/L) - TW	2024/08/06	<mdl 0.15<="" td=""><td>60.00</td><td>No</td><td>No</td></mdl>	60.00	No	No
Phorate (ug/L) - TW	2024/08/06	<mdl 0.01<="" td=""><td>2.00</td><td>No</td><td>No</td></mdl>	2.00	No	No
Picloram (ug/L) - TW	2024/08/06	<mdl 1.0<="" td=""><td>190.00</td><td>No</td><td>No</td></mdl>	190.00	No	No
Prometryne (ug/L) - TW	2024/08/06	<mdl 0.03<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Simazine (ug/L) - TW	2024/08/06	<mdl 0.01<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
Terbufos (ug/L) - TW	2024/08/06	<mdl 0.01<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2024/08/06	<mdl 0.35<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2024/08/06	<mdl 0.2<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Triallate (ug/L) - TW	2024/08/06	<mdl 0.01<="" td=""><td>230.00</td><td>No</td><td>No</td></mdl>	230.00	No	No
Trichloroethylene (ug/L) - TW	2024/08/06	<mdl 0.44<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2024/08/06	<mdl 0.25<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA) (ug/L)	2024/08/06	<mdl 0.12<="" td=""><td>100</td><td>No</td><td>No</td></mdl>	100	No	No
Trifluralin (ug/L) - TW	2024/08/06	<mdl 0.02<="" td=""><td>45.00</td><td>No</td><td>No</td></mdl>	45.00	No	No
Vinyl Chloride (ug/L) - TW	2024/08/06	<mdl 0.17<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2024 Annual Average	84.0	100	No	Yes
HAA Total (ug/L) Annual Average - DW	2024 Annual Average	48.08	80	No	Yes

#### **Additional Legislated Samples**

Municipal Drinking Water Licence (MDWL)	Collected Weekly June – Oct 2024	Total Microcystin Raw Results Range (ug/L)	Total Microcystin Treated Water Results Range (ug/L)	Treated Water Total Microcystin Limit 1.5 ug/L Exceeded Y/N
Harmful Algal Blooms	June	<0.1 – <0.1	-	N
Monitoring required June to October at a	July	<0.1 - <0.1	-	N
minimum. Samples collected weekly. Raw	August	<0.1 - <0.1	-	N
water tested for Total Microcystins.	September	<0.1 - <0.1	-	N
	October	<0.1 – 0.1	-	N
	November	<0.1 – < 0.1	<0.1 – <0.1	N

Method Detection Limit is 0.1ug/L

#### **Inorganic or Organic Parameter Exceedances**

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
Trihalomethane: Total (ug/L) Annual Average	84.0	ug/L	2024 Annual Average
HAA Total (ug/L) Annual Average	48.08	ug/L	2024 Annual Average

<sup>\*</sup>Treated water is only sampled if microcystins are detected in the raw water sample.

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# Major Maintenance Summary incurred to install, repair or replace required equipment.

Item #	Description
1	Distribution leak located and repaired on Laguna Parkway
2	Hydrant replaced on Old Indian Trail
3	Replaced bulk fill line actuator
4	Hydrant and secondary valve replaced at Foley
5	Hydrant replaced at 41 Laguna Parkway
6	Multiple leak repairs on Laguna Parkway
7	Surface washer line repaired
8	Carbon media replaced in filters
9	Hydrant flushing

# Appendix A

#### **WTRS Data Submission Confirmation**

#### Water Taking Data submitted successfully.

#### Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 0278-AQ4LYS

Permit Holder: THE CORPORATION OF THE TOWNSHIP OF RAMARA.

Received on: Feb 3, 2025 9:56 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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