

Tyendinaga Distribution System

Waterworks # 260096785
System Category – Non-Municipal Year Round Residential (Stand Alone Distribution System)

Annual Water Report

Prepared For: The Mohawks of the Bay of Quinte

Reporting Period of January 1st 2021– December 31st, 2021

Issued: March 4th, 2021

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11.

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Report Availability

This system does not serve more than 10,000 residence and the annual reports will be available to residents at the Mohawks of Bay of Quinte Band Office and on their website at www.mbq-tmt.org. Notification that reports are available free of charge will be made on the Mohawks of Bay of Quinte website. The Mohawks of the Bay of Quinte Band Office is located at 24 Metal Dr., Tyendinaga Mohawk Territory K0K1X0.

Compliance Report Card

Drinking Water System Number: 260096785

Drinking Water System Name: Tyendinaga Distribution System

Drinking Water System Owner: The Mohawks of the Bay of Quinte

Drinking Water System Category: Non-Municipal Year Round Residential (Stand Alone Distribution System)

Period Being Reported: January 1st, 2021 – December 31st, 2021

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	November 23 rd , 2021	No Non-Compliances or BMP were identified in the Announced Inspection.
Number of Non-Compliances	0		
AWQI's	0		
Number of Boil Water Advisories	0		

System Process Description

The Tyendinaga Distribution System provides drinking water to a small area of homes located in Shannonville, in the Mohawks of Bay of Quinte area. The area consists of approximately thirty-five homes. The distribution system receives all of its drinking water supply from the Mohawks of the Bay of Quinte Water Treatment Facility, operated by the Mohawks of the Bay of Quinte and overseen by OCWA. The system does not provide any further treatment. The distribution system consists of approximately 1.7 kilometres of watermains inclusive of fire protection and residential servicing.

Regulatory Relief

The Tyendinaga Distribution System is fed from the Mohawks of the Bay of Quinte Water Treatment Facility. It operates on Certificate of Approval #2804-BJXKF7 with relief from specific regulatory requirements.

Subject to Conditions 3.2 and 3.3, Schedules 2, 8, 11 and 13 in O. Reg. 170/03 do not apply to the specified drinking water system. Details of the regulatory relief that was granted as part of the Certificate of Approval are listed below:

- **Schedule 2- Treatment Equipment- Primary disinfection for ground water raw water supply- Filtration and primary disinfection for surface water raw water supply- No requirement to monitor as there is no raw water supply**
- **Schedule 8- Maintenance and Operational Checks- Relief from sampling turbidity, as there is no raw water supply.**
- **Schedule 11- Microbiological Sampling and Testing- Relief from raw water microbiological sampling as there is no raw water supply.**
- **Schedule 13- Chemical Sampling and Testing- Relief from sampling organics, inorganics, Fluoride and Sodium every 60 months as this is collected at the Mohawks of the Bay of Quinte Drinking Water System on an annual basis. Further relief from sampling nitrites and nitrates on a quarterly basis as this is also performed at the Mohawks of the Bay of Quinte Drinking Water System.**
- **Schedule 21- Engineering Evaluation Report- Relief from a licensed engineering practitioner preparing a report on treatment equipment, including a maintenance schedule and a statement confirming all equipment is being installed in accordance with the regulation.**

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
No chemicals are used.		

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
<i>There were no AWQI's in the Reporting Year 2021.</i>						

Non-Compliance

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

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
<i>There were no non-compliances identified in a Ministry Inspection during this period.</i>				

Regulatory Sample Results Summary

Microbiological Testing

	No. of Samples Collected	Range of E. Coli Results		Range of Total Coliform Results		Range of HPC Results	
		Min	Max	Min	Max	Min	Max
Raw Water	No Raw Water Samples Required						
Treated	No Treated Water Samples Required						
Distribution	52	0	0	0	0	0	2

Operational Testing

	No. of Samples Collected	Range of Results	
		Minimum	Maximum
Distribution Chlorine	57	0.32	1.64
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances	
				MAC	1/2 MAC
No requirement to sample inorganics in the system.					

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 Sampling Points	Number of Samples	Range of Results Minimum	Range of Results Maximum	MAC	Number of Exceedances
Alkalinity (mg/L)	2	4	33	119	30-500	No
pH	2	4	7.58	7.90	6.5-8.5	No
Lead (ug/l)	2	4	0.07	0.89	10	No

Organic Parameters

These parameters are tested 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 Result	Annual Average	MAC	Exceedances	
					MAC	1/2 MAC
Distribution Water						
Trihalomethane: Total (ug/L) Annual Average - DW	17-Feb-21	39	57.2	100	No	Yes
	08-Apr-21	41				
	19-Jul-21	72				
	12-Aug-21	71				
	04-Oct-21	63				
HAA Total (ug/L) Annual Average - DW	17-Feb-21	11.8	36.8	80	No	No
	08-Apr-21	20.7				
	19-Jul-21	58				
	12-Aug-21	51.3				
	04-Oct-21	42.6				

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

Additional Legislated Samples

Municipal Drinking Water License	Parameter	Date Sampled	Result	Unit of Measure
No additional legislated samples.				

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

Item Number #	Description
Equipment was maintained in a fit state of repair as per legislation.	