



Annual Report

Ear Falls Drinking Water System

Period Covering: January 1 to December 31, 2025

(Prepared in accordance with O. Reg 170/03, Schedules 11 & 22)

Contents

Introduction	3
1.1 Annual Reporting Requirements	3
1.2 Report Availability	3
2 System Overview & Expenses	4
2.1 System Description	4
2.2 System Expenses	6
2.3 Water Treatment Chemicals	7
3 Water Quality	8
3.1 Overview	8
3.2 Microbiological Parameters	8
3.3 Operational Parameters	9
3.4 Conventional Filtration Performance	11
3.5 Nitrate & Nitrite	12
3.6 Trihalomethanes & Haloacetic Acids	12
3.7 Lead Sampling	13
3.8 Inorganic & Organic Parameters	14
4 Water Production	17
4.1 Overview	17
4.2 Flow Monitoring Results	17
4.3 Recent Historical Flows	19
5 Compliance	21
5.1 Overview	21
5.2 Adverse Water Quality Incidents	21
5.3 Regulatory Compliance	22

Introduction

1.1 Annual Reporting Requirements

The 2025 Annual Drinking Water Report (the report) is intended to inform both the public and Municipal Council about the operation of the Ear Falls Drinking Water System over the previous calendar year (January 1 to December 31, 2025). The report is developed to satisfy both Section 11 (Annual Reports), and Schedule 22 (Summary Reports for Municipalities) of O.Reg 170/03.

Section 11 of O. Reg. 170/03 requires an annual report which summarizes water quality monitoring results, adverse water quality incidents, system expenses and chemicals used in the water treatment process.

Schedule 22 of O. Reg. 170/03 requires a report summarizing incidents of regulatory non-compliance and associated corrective actions, in addition to providing flow monitoring results for the purpose of enabling the Owner to assess the capability of the system to meet existing and planned demand.

1.2 Report Availability

This report is readily available, without charge, to every person who requests a copy, in accordance with section 11 of O. Reg. 170/03. Effective steps must also be taken to inform the water system users that copies of the report are available and how a copy may be obtained. This Annual Report shall be made available to the public at the Ear Falls Municipal Office and on the Township's website.

The members of the Municipal Council must be given a copy of the report in accordance with Schedule 22 of O. Reg. 170/03. Members of Council and municipal officials with decision-making authority over a drinking water system have responsibilities and obligations under Section 19 (Standard of care, municipal drinking-water system) of Ontario's *Safe Drinking Water Act* (SDWA). The examination of this report by Council is one of the methods by which municipal officials may fulfil the obligations required by the SDWA.

Members of the public and Council are encouraged to reach out to a representative of the Water Department of The Township of Ear Falls (the Township) with any questions, comments, or to obtain assistance in interpreting this report. Questions and comments may be directed to the Manager of Water and Wastewater Operations via email: bjette@ear-falls.com

2 System Overview & Expenses

2.1 System Description

The operation and maintenance of drinking water systems is governed by Ontario’s *Safe Drinking Water Act* and the regulations therein, in addition to requirements within system-specific environmental approvals. Important system information is summarized in Table 1.

Table 1: System information	
Drinking-Water System Name:	Ear Falls Drinking Water System
DWS Number:	210000256
DWS Category:	Large Municipal Residential
DWS Owner:	The Corporation of the Township of Ear Falls
DWS Operating Authority:	The Corporation of the Township of Ear Falls
DWS Components:	<ul style="list-style-type: none"> • Raw water pumping station • Ear Falls Water Treatment Plant • Ear Falls water distribution system and standpipe
Treatment Processes:	<ul style="list-style-type: none"> • Chemical coagulation, flocculation, and clarification • Dual media (rapid sand) filtration • Free chlorine disinfection • pH adjustment

Water production begins when source water is taken into the treatment plant from the English River by low lift pumps at the raw water pumping station. It is then pumped through a short transmission line to the Ear Falls Water Treatment Plant. The water is then injected with polyaluminum chloride (coagulant) and polymer (flocculant) before entering the two solids contact clarifiers. To promote floc formation, water is gently mixed in the flocculating chamber.

Process water then enters the clarifier proper, where water velocity is slowed down, allowing the formed floc to settle into a sludge blanket and the supernatant to flow upwards into effluent launders. The sludge from the clarifiers is automatically removed from the bottom of the clarifier to prevent buildup. The water that enters the effluent launders is directed to one of four (4) dual media high-rate filters composed of anthracite and silica sand. Filters are periodically cleaned by reversing the flow of water through the unit and running this water to waste.

After filtration, the water is injected with sodium hypochlorite (disinfection) and sodium hydroxide for pH adjustment. Water enters a baffled clearwell reservoir, which mixes the disinfectant and provides contact time to achieve primary disinfection before water leaves the plant. Water is delivered to the water distribution system and standpipe using pumps located in the treatment facility. Secondary disinfection is achieved by maintaining a free chlorine residual at all locations.

2.2 System Expenses

This Report must describe any major expenses incurred during the reporting period to install, repair, or replace required equipment as per O. Reg 170/03. This Report also summarizes those expenses related to strengthening equipment inventories and to maintenance activities undertaken by subcontracted service providers. Major expenses incurred in 2025 are summarized in Table 2.

Category	Description	Expense
Upgrade	Low Lift Pumping Station Rehabilitation Project	\$109,300
Upgrade	Filter PLC Replacement	\$86,300
Upgrade	Engineering for HVAC Upgrades	\$49,000
Maintenance & Upgrade	Rebuild HLPs, PLC Upgrades to bypass Standpipe	\$37,800
Replace	Process Pipe Replacement	\$28,700
Replace	Clearwell Sump Pump Replacement	\$14,000
Replace & Inventory	Hydrant Repair Parts and Spare Hydrant	\$13,900
Maintenance	Standpipe Isolation Valves Replacement	\$13,100
Inventory	Spare Chemical Feeder PAC/HYPO	\$5,700
Maintenance	Annual Electrical Repairs	\$5,300
Inventory	Chemical Feeder Spare Parts and Accessories	\$4,800
Maintenance	Repairing the wall outside the chemical room	\$3,700
Replace	Chemical Room Door Replacement	\$3,500

2.3 Water Treatment Chemicals

This report is required to list all water treatment chemicals used by the system during the period covered by the report (summarized in Table 3). All chemicals used in the treatment process are NSF/ANSI 60 certified for use in potable water, as required by system approvals.

Table 3: Water treatment chemicals used in 2025

Treatment Chemical	Application
polyaluminum chloride	coagulant
polymer	flocculant
sodium hypochlorite	disinfectant
sodium hydroxide (50%)	pH/alkalinity adjustment



3 Water Quality

3.1 Overview

In-house testing is conducted daily to monitor and determine water quality to confirm that drinking water leaving the facility is safe, meets legislated requirements, and is aesthetically pleasing to consumers. Monitoring is also used to adjust and control treatment processes. The following sections summarize the results of all required water quality tests and compare the results to applicable water quality standards, as per the requirements of section 11 of O. Reg 170/03.

3.2 Microbiological Parameters

Samples are collected weekly in the Ear Falls drinking water system, and these samples are sent to an accredited laboratory for analysis. In 2025, there were 222 raw, treated, and distribution samples collected and tested for microbiological analysis, including E. coli (EC), total coliform (TC), and heterotrophic plate count (HPC). Results from these microbiological analyses are summarized in Table 4. Microbiological sampling and testing requirements are described in Schedule 10 of O. Reg. 170/03. Results that were above the Ontario Drinking Water Quality Standards were reported and are summarized in section 5 of this report.

Table 4: Results summary for microbiological parameters

Sample Type	# of Samples	EC Results Range ¹ (MPN/100mL)	TC Results Range ¹ (MPN/100mL)	# of HPC Samples	HPC Results Range (CFU/mL)
Raw Water	52	0 -NDOGT ²	0 -NDOGT ²	---	---
Treated Water	52	0	0	52	0 - 10
Distribution	118	0	0	118	<10

1. The Ontario Drinking Water Quality Standard for E. Coli and Total Coliforms in a treated or distribution sample is 'not detectable'. The presence of either parameter in a treated or distribution sample is considered an exceedance and reported. See section 5.2 of this report for more information.
2. NDOGT = No Data, Overgrown Target. There were two (2) raw water samples that were overgrown with so many microbiological organisms it was unable to be counted. This is not an adverse result, but the ministry was notified of potential raw water contamination.

3.3 Operational Parameters

There are several operational parameters that are monitored to maintain water quality and compliance as per Schedules 6 and 7 of O. Reg 170/03. Some parameters are required to be monitored continuously, and this data is collected and trended automatically, while other parameters are collected by operators. Table 5 summarizes water quality results for regulated and selected unregulated operational parameters. No Adverse Water Quality Incidents (AWQIs) pertaining to operational parameters occurred during the reporting period.

Table 5: Results summary for operational parameters

Parameter (Sample Type)	Number of Samples	Units	Min. Result	Max. Result	Annual Avg.	Adverse Result
Turbidity (Raw Water)	241	NTU	1.61	8.76	3.84	n/a
Turbidity (Filter 1)	Continuous	NTU	n/a	0.151	0.056	>1.0 ¹
Turbidity (Filter 2)	Continuous	NTU	n/a	0.206	0.051	>1.0 ¹
Turbidity (Filter 3)	Continuous	NTU	n/a	0.132	0.050	>1.0 ¹
Turbidity (Filter 4)	Continuous	NTU	n/a	0.140	0.050	>1.0 ¹
Turbidity (Treated)	365	NTU	0.06	1.61	0.15	n/a
pH (Treated)	Continuous	---	7.09	8.40	7.86	n/a ²
Total Alkalinity (Treated)	215	mg/L	32.4	42.2	37.1	n/a
Aluminum Residual (Treated)	222	mg/L	0.006	0.023	0.014	n/a
FCR ³ (Treated)	Continuous & 365 ⁴	mg/L	1.12	3.10	2.11	n/a ⁵
FCR ³ (Distribution) ⁶	442	mg/L	0.13	2.20	n/a	<0.05

1. Turbidity must not exceed 1.0 NTU for more than 15 minutes.
2. pH is not associated with adverse results but the target range for treated water is 7.6 - 8.0 for corrosion control purposes.
3. FCR = free chlorine residual.
4. The Min. Result is continuous. The Max. Result and Annual Avg. are derived from grab samples.
5. There is no adverse result corresponding to the treated water free chlorine residual. However, an observation of adverse water quality occurs if the residual is low enough such that water has not been disinfected in accordance with the system's *Municipal Drinking Water Licence*.
6. Free chlorine residuals are tested at various locations in the water distribution system. The free chlorine residual varies with water age and distribution system location, and the values in the table pertain to the minimum and maximum results collected across all locations in the calendar year.

3.4 Conventional Filtration Performance

In accordance with the system's *Municipal Drinking Water Licence*, conventional filtration facilities must meet certain performance criteria to claim removal credits for *Cryptosporidium oocysts*, *Giardia* cysts, and viruses. In addition to continuously monitoring filtrate turbidity and other requirements, filtrate turbidity must be less than or equal to 0.3 NTU in at least 95% of the measurements each month. Table 6 summarizes filtrate turbidity compliance against the <0.3 NTU/95% performance criterion. The minimum and maximum values in the table correspond to the proportion of time that filtered water turbidity was less than or equal to 0.3 NTU in a calendar month in 2025. No Adverse Water Quality Incidents pertaining to conventional filtration performance occurred during the reporting period.

Table 6: Filtration performance summary

Filter	Minimum Result	Maximum Result	Adverse Result
Filter 1	100%	100%	<95%
Filter 2	100%	100%	<95%
Filter 3	100%	100%	<95%
Filter 4	100%	100%	<95%



3.5 Nitrate & Nitrite

Treated water is tested for nitrate and nitrite concentrations on a quarterly basis in accordance with Schedule 13 (Chemical sampling and testing) of O. Reg. 170/03. Nitrate and nitrite results are provided in Table 7. All results were below the Ontario Drinking Water Quality Standards.

Sample Date	Nitrate		Nitrite	
	Result (mg/L)	ODWQS (mg/L)	Result (mg/L)	ODWQS (mg/L)
10-Feb-2025	<0.05	10	<0.05	1
12-May-2025	<0.05		<0.05	
11-Aug-2025	0.07		<0.05	
10-Nov-2025	<0.05		<0.05	

3.6 Trihalomethanes & Haloacetic Acids

Trihalomethanes (THMs) and haloacetic acids (HAAs) are sampled on a quarterly basis from a distribution system location that is likely to have an elevated potential for their formation, in accordance with Schedule 13 (Chemical sampling and testing) of O. Reg. 170/03. Total THM and HAA results are provided in Table 8 and Table 9, respectively. Compliance with the provincial standards for trihalomethane and haloacetic acid concentrations is determined by calculating a running annual average. The current running annual averages for THMs are below the respective Ontario Drinking Water Quality Standards; however, an exceedance was reported in October when the running annual average for HAAs exceeded the standard. More details of this exceedance are provided in section 5 of this report.

Sample Date	Result (µg/L)
10-Feb-2025	57
12-May-2025	87.6
11 & 25- Aug-2025	126.4
10-Nov-2025	99
Regulatory Average (RAA)	92.5
ODWQS (RAA)	100

Sample Date	Result (µg/L)
10-Feb-2025	67
12-May-2025	92
July – Sept. 2025 (3 samples)	99.8
10-Nov-2025	68
Regulatory Average (RAA)	81.7
ODWQS (RAA)	80

3.7 Lead Sampling

In 2010, a *Corrosion Control Plan* was required to be developed for the Ear Falls Drinking Water System (DWS) following unfavourable results associated with the community lead sampling program. Corrosion control measures for the system were formally implemented on September 17, 2018, following the rehabilitation of the sodium hydroxide chemical feed system. Sodium hydroxide is now used to maintain water pH at a level that will minimize the release of lead from plumbing. Calculated across all plumbing samples, corrosion control has resulted in a 49% reduction in the 90th percentile lead concentration. The ODWQS sampling point exceedance rate has also been significantly reduced from 15.6% to 8.1% (i.e., 15.6% of plumbing samples collected prior to corrosion control exceeded the standard for lead in drinking water).

The Ear Falls DWS currently adheres to the lead monitoring program outlined in its *Municipal Drinking Water Licence*, which requires the collection of treated water samples on a quarterly basis and distribution and plumbing samples on an annual basis. Table 10 summarizes the results of community lead sampling conducted in 2025. All distribution and plumbing samples were collected on September 9, 2025. Three sample locations exceeded the standard, and the remaining treated water, distribution, and plumbing sampling results were below the Ontario Drinking Water Quality Standard for lead in drinking water. The exceedances were reported to the Ministry of Environment, and the owners of the sample locations were notified.

Table 10: Lead sampling results summary

Sample Type	No. of Sampling Points	No. of Samples	Min. Result (µg/L)	Max. Result (µg/L)	ODWQS (µg/L)	No. of Sampling Point Exceedances	No. of Sample Exceedances
Treated	1	4	<0.1		10	0	0
Distribution	4	4	<1.0			0	0
Plumbing ¹	12	24	<1.0	15.1		3	4

1. In accordance with the sampling protocol outlined in Schedule 15.1 of O. Reg. 170/03, two samples are collected and analyzed for lead at each sampling point for plumbing samples.

3.8 Inorganic & Organic Parameters

Most inorganic parameters are sampled on an annual basis in treated water in accordance with Schedules 13 (Chemical sampling and testing) and 23 (Inorganic parameters) of O. Reg. 170/03. The inorganic parameters sodium and fluoride are sampled every five (5) years in treated water in accordance with Schedules 13 and 23 of O. Reg. 170/03. The most recent inorganic parameter sampling results are provided in Table 11. All results were below the associated Ontario Drinking Water Quality Standards.

Parameter	Most Recent Sample Date	Units	Result	ODWQS
Antimony	11-Aug-2025	µg/L	<0.50	6
Arsenic	11-Aug-2025	µg/L	<1.0	10
Barium	11-Aug-2025	µg/L	6	1000
Boron	11-Aug-2025	µg/L	<2	5000
Cadmium	11-Aug-2025	µg/L	<0.10	5
Chromium	11-Aug-2025	µg/L	<1.0	50
Fluoride	14-Feb-2022	mg/L	<0.020	1.5
Mercury	11-Aug-2025	µg/L	<0.1	1
Selenium	11-Aug-2025	µg/L	<0.2	50
Sodium	14-Feb-2022	mg/L	8.29	20
Uranium	11-Aug-2025	µg/L	<0.5	20

Organic parameters are sampled on an annual basis in treated water in accordance with Schedules 13 (Chemical sampling and testing) and 24 (Organic parameters) of O. Reg. 170/03. These parameters include various organic acids, pesticides, herbicides, PCBs, volatile organics, and other chemicals. Sampling for all organic parameters was most recently conducted on August 11, 2025, and results are provided in Table 12. All results were below the associated Ontario Drinking Water Quality Standards.

Table 12: Organic parameter sampling results

Parameter	Result (µg/L)	ODWQS (µg/L)	Parameter	Result (µg/L)	ODWQS (µg/L)
Alachlor	<0.248	5	Diuron	<0.5	150
Atrazine + N-dealkylated metabolites	<0.5	5	Glyphosate	<10.0	280
Azinphos-methyl	<0.186	20	Malathion	<0.186	190
Benzene	<0.1	1	MCPA	<5.59	100
Benzo(a)pyrene	<0.01	0.01	Metolachlor	<0.124	50
Bromoxynil	<0.09	5	Metribuzin	<0.124	80
Carbaryl	<0.5	90	Monochlorobenzene	<0.5	80
Carbofuran	<0.5	90	Paraquat	<0.4	10
Carbon Tetrachloride	<0.2	2	Pentachlorophenol	<0.2	60
Chlorpyrifos	<0.186	90	Phorate	<0.124	2
Diazinon	<0.186	20	Picloram	<0.078	190
Dicamba	<0.078	120	Total PCBs	<0.05	3
1,2-Dichlorobenzene	<0.2	200	Prometryne	<0.062	1
1,4-Dichlorobenzene	<0.3	5	Simazine	<0.186	10
1,2-Dichloroethane	<0.2	5	Terbufos	<0.124	1
1,1-Dichloroethylene	<0.3	14	Tetrachloroethylene	<0.3	10
Dichloromethane	<1	50	2,3,4,6-Tetrachlorophenol	<0.2	100
2,4-Dichlorophenol	<0.2	900	Triallate	<0.124	230
2,4-D	<0.336	100	Trichloroethylene	<0.2	5
Diclofop-methyl	<0.112	9	2,4,6-Trichlorophenol	<0.2	5
Dimethoate	<0.186	20	Trifluralin	<0.124	45
Diquat	<0.3	70	Vinyl Chloride	<0.1	1

4 Water Production

4.1 Overview

To assess the capability of the Ear Falls drinking water system to meet existing and planned uses, a summary of the flow rates and quantities of water taken from the source and supplied to the community must be provided as per Schedule 22 of O. Reg. 170/03. Flow rates are compared to the rated capacity of the facility, which is approved in the system's *Municipal Drinking Water Licence*.

4.2 Flow Monitoring Results

In 2025, the Ear Falls Drinking Water System operated within its rated capacity and supplied a total of 198,343m³ of treated water to the Township. On an average day in 2025, 543m³ of treated water was supplied to the community, which represents 12% of the rated capacity of the Ear Falls Water Treatment Plant (4,550 m³/day). The maximum daily flow in 2025 was 1,177 m³/day, which represents 26% of the rated capacity of the treatment facility. Flow monitoring results are summarized in Figure 1 and Table 13.

Figure 1: 2025 average and maximum daily treated water flows

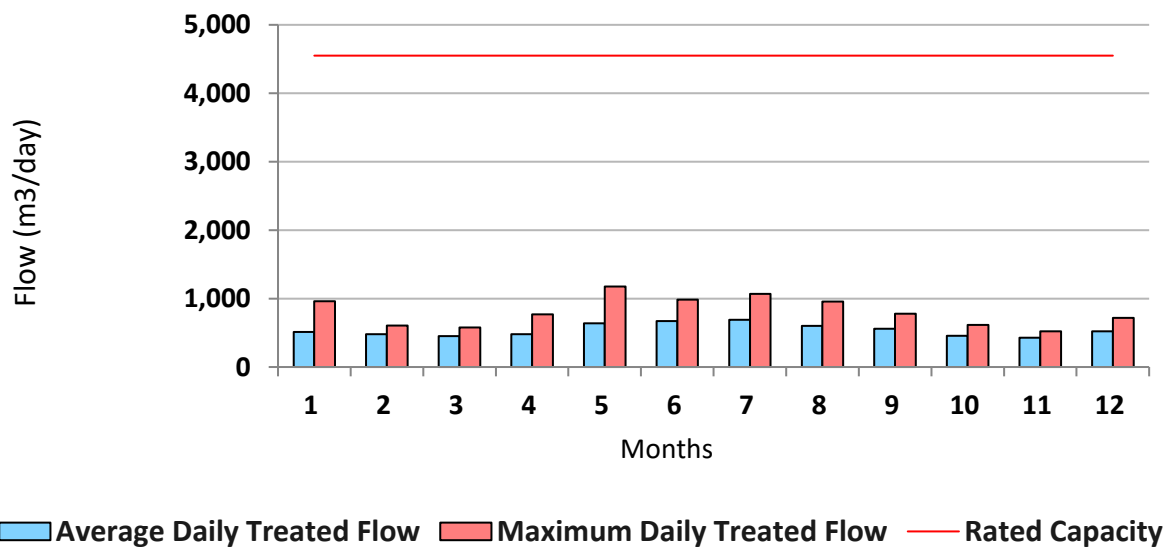


Table 13: 2025 Water production summary

Month	Total Volumes (m ³)		Daily Flows (m ³ /day)		Capacity Assessments ¹	
	Raw Water	Treated Water	Average - Treated Water	Maximum - Treated Water	Average - Treated Water	Maximum - Treated Water
Jan	17,265	15,911	513	962	11%	21%
Feb	14,831	13,868	478	605	11%	13%
Mar	14,889	13,953	450	577	10%	13%
Apr	15,362	14,454	482	768	11%	17%
May	21,232	19,872	641	1,177	14%	26%
Jun	21,316	20,177	673	985	15%	22%
Jul	22,437	21,421	691	1,069	15%	23%
Aug	19,334	18,710	604	958	13%	21%
Sep	17,462	16,764	559	778	12%	17%
Oct	14,907	14,193	458	614	10%	13%
Nov	13,367	12,831	428	522	9%	11%
Dec	17,172	16,189	522	719	11%	16%
Total	209,574	198,343	---	---	---	---
Average	17,465	16,529	543	---	12%	---

1. Capacity assessments compare the average and maximum daily treated water flows to the rated capacity of the treatment facility (4,550 m³/day).

4.3 Recent Historical Flows

Table 14 summarizes recent historical flow monitoring results. There have been significant annual reductions in the volumes of source water withdrawn and treated water supplied in comparison to 2020. The reductions in flows are attributable to the completion of a distribution system leak detection survey and subsequent water main repairs conducted in 2020. Since then, between 2021 and 2025, there has been a gradual but significant reduction in water consumption, totalling 37%, despite the number of users increasing. This is partially attributed to the continued efforts in repairing watermain breaks as they occur, and presumptively to wetter summers between 2021 and 2025 as opposed to 2014 and 2020. When looking at the precipitation between the summers of 2014 to 2020, and the summers of 2021 to 2025, there has been an 11% increase in precipitation. This is believed to have resulted in users watering their lawns and gardens less frequently.

The continued efforts in watermain repairs and cooperative weather have resulted in the annual average daily flows of 543 m³/day, being an 11-year low. Despite these flows being at an all-time low, and having decreased water usage in Ear Falls to 588 L/person/day, it is almost twice as high as the most recent Ontario average (335 L/person/day; [Statistics Canada](#)).

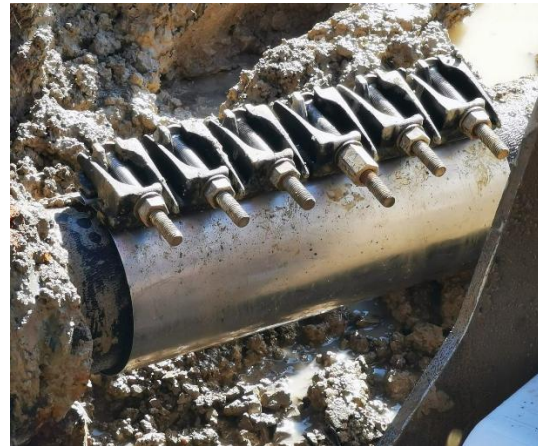


Table 14: Recent historical water production summary

Year	Total Volumes (m ³)		Daily Flows (m ³ /day)		Annual % Change	
	Raw Water	Treated Water	Average – Treated	Maximum – Treated	Raw Water	Treated Water
2014	400,171	373,727	1,024	2,088	---	---
2015	363,524	359,631	985	1,602	-9.2%	-3.8%
2016	361,276	353,791	967	1,498	-0.6%	-1.6%
2017	415,125	394,183	1,080	1,781	+14.9%	+11.4%
2018	463,410	454,171	1,244	1,992	+11.6%	+15.2%
2019	475,858	457,590	1,254	1,738	+2.7%	+0.8%
2020	487,069	449,988	1,229	2,081	+2.4%	-1.7%
2021	332,904	314,978	863	2,311	-31.7%	-30.0%
2022	275,287	260,969	715	1,931	-17.3%	-17.1%
2023	270,294	255,095	699	1,691	-1.8%	-2.3%
2024	229,080	215,312	588	1,780	-15.2%	-15.6%
2025	209,574	198,343	543	1,177	-8.5%	-7.9%



5 Compliance

5.1 Overview

The Township of Ear Falls employs an operational strategy that is committed to achieving the following goals:

- Providing a safe and reliable supply of drinking water to the community of Ear Falls;
- Meeting or exceeding all applicable legislative and regulatory requirements; and,
- Maintaining and continually improving the operation and maintenance of the system.

The following sections will summarize incidents of adverse water quality and regulatory noncompliance that occurred during the 2025 reporting period. The Township is committed to employing timely and effective corrective actions to prevent the recurrence of identified incidents of adverse water quality and noncompliance.

5.2 Adverse Water Quality Incidents

Adverse Water Quality Incident (AWQI) reports made to the Ministry, and the corrective actions taken for all AWQIs reported in 2025 are summarized below, as per Schedules 11 and 17 of O. Reg 170/03. The duty to report adverse results and observations is described in subsection 18(1) of the SDWA and Schedule 16 of the O. Reg 170/03. There was one (1) Adverse Water Quality Incident (AWQI) reported in 2025.

Adverse Water Quality Incident (AWQI) 170387 – HAA Exceedance – October 1, 2025

An exceedance was reported to the Ministry as an AWQI when the running annual average concentration for haloacetic acids (HAA) exceeded the limit set out in the Ontario Drinking Water Quality Standard. HAAs are formed by the reaction between organic matter and chlorine. The standard sets the limit for HAAs as a running annual average of 80µg/L, calculated quarterly, using results from the most recent calendar quarters. At the end of the third calendar quarter (July - September 2025), the running annual average was 99.8µg/L. Sampling results in the following calendar quarter (October – December) were not low enough to reduce the average below the standard of 80µg/L; the AWQI remains open.

5.3 Regulatory Compliance

In accordance with Schedule 22 (Summary Reports for Municipalities) of O. Reg. 170/03, this Report must list any requirements of the *Safe Drinking Water Act*, the regulations, the system's approval, *Drinking Water Works Permit*, *Municipal Drinking Water Licence*, and any orders applicable to the system that were not met at any time during the period covered by the report (i.e., an incident of regulatory noncompliance). Additionally, this Report must specify the duration of the failure and the measures that were taken to correct the failure.

The most recent inspection by Ontario's Ministry of the Environment, Conservation and Parks was initiated on May 23, 2025. There was one incident of noncompliance, and the final inspection rating was 95.77%.

Noncompliance – Continuous Monitoring not Equipped with Alarms that Satisfy the Standard

The low chlorine alarm is set at 1.30mg/L for treated water leaving the water treatment plant, as per the *Disinfection Summary (SOP-DS)*. On three occasions, operators lowered this alarm setpoint to 1.00mg/L, which is 0.16mg/L below the minimum allowable alarm setpoint.

Operators lowered the alarm setpoint during abnormal conditions and returned the alarm once the process was restored. Prior to operators changing the alarm set point, they had confirmed that primary disinfection was achieved and would be maintained for the entirety of the event.

The operators had not thought that this would result in non-compliance, since primary disinfection would still be achieved. All operators have been made aware of the minimum allowable chlorine setpoint, and in the future, operators shall not lower the alarm setpoint below 1.16mg/L, as per the *Disinfection Summary (SOP-DS)*.