



**ANNUAL REPORT**

<b>Drinking-Water System Number:</b>	220002967
<b>Drinking-Water System Name:</b>	Dutton/Dunwich Distribution System
<b>Drinking-Water System Owner:</b>	The Corporation of the Municipality of Dutton/Dunwich
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1, 2023 to December 31, 2023

**Complete if your Category is Large Municipal Residential or Small Municipal Residential**

Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [ X ]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [ X ] No [ ]

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

The Municipality of Dutton/Dunwich  
199 Currie Rd.,  
Dutton, ON  
N0L 1J0

**Complete for all other Categories.**

Number of Designated Facilities served:

8

Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]

Number of Interested Authorities you report to:

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]

**Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report**

**List all Drinking-Water Systems (if any), which receive a portion of their drinking water from your system:**

Drinking Water System Name	Drinking Water System Number
Not Applicable (N/A)	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all or part of its drinking water?

Yes [ ] No [ ]



Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method

**Describe your Drinking-Water System**

The Dutton/Dunwich Distribution System is classified as a large municipal system, with approximately 2142 customers, serving the former Village of Dutton, the former hamlets of Wallacetown, Iona and Iona Station and a large portion of the rural area of the former Township of Dunwich.

**List all water treatment chemicals used over this reporting period**

Sodium Hypochlorite

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

There were a few leaks that occurred at the property lines (curb stops).  
 There were 3 water main breaks in 2023. One on April 27,2023 on Jordan street in Dutton, the second on August 14, 2023 on Fingal line and the third on December 19, 2023 at the intersection of ridge and Margaret streets also in Dutton.  
 Municipal backflow prevention program started in 2010 and is still ongoing.  
 Majority of old lead service lines have been replaced throughout the Municipalities Distribution System. Any remaining lead service lines will be replaced on an ongoing basis as they are discovered during repairs etc.  
 Installation of new radio read meters continued throughout the entire Municipality. Once completed the Municipalities water department will be able to complete water meter reading therefore no longer needing to contract this service out.  
 Replaced 4 older model rusting sampling stations with newer ones with stainless steel internal plumbing for better, cleaner operation.  
 Also installed 1 new auto flusher on Coyne Rd north to replace 2” blow off assembly.  
 New SCADA system upgrade to both Hardware and Software.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A	N/A	N/A	N/A	N/A	N/A



**Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.**

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	N/A				
Treated	N/A				
Distribution	208	0 - 0	0 - 0	52	<10 - 140

**Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.**

		Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
Turbidity		N/A		
Free Chlorine		1,170	.50-1.97	mg/L
Continuous Free Cl Monitoring	W.Tower Iona In Iona Out	8760 8760 8760	0.10-5.00 0.00-4.40 0.00-3.31	mg/L

*NOTE: For continuous monitors use 8760 as the number of samples.*

\*There were a few instances in 2023 when the water distribution free chlorine residual was recorded below 0.05mg/L by the continuous online analyzers. Each of these events coincided with operational alarm testing, loss of power or equipment failure ect. and did not reflect the actual free chlorine residual maintained in the distribution system.

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

**Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.**

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				

**Summary of lead testing under Schedule 15.1 during this reporting period (applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)**

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	N/A	N/A	ug/L	N/A
Distribution	6	.07-0.51	ug/L	0



# Ontario Drinking-Water Systems Regulation O. Reg. 170/03

pH	6	7.31-7.57		0
Alkalinity	6	92-98	mg/L	0

**Summary of Organic parameters sampled during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Total Trihalomethanes (THM's) (NOTE: show latest annual average)  Running Annual Average - 54 ug/L	Feb 7	39	ug/l	0
	May 2	41		
	Aug 8	57		
	Nov 7	79		

Haloacetic Acids (HAA's)  Running Annual Average – 30.2 ug/L	Feb 7	19	Ug/L	0
	May 2	20.2		
	Aug 8	42.6		
	Nov 7	38.9		



Municipality of  
Dutton Dunwich

**MUNICIPALITY OF DUTTON DUNWICH**  
**Council Meeting**

**Resolution Number**      2024.02.11  
**Date:**                      January 24, 2024

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**Moved by:**                C. Pemberton  
**Seconded by:**        K. Loveland

**THAT the Council of the Municipality of Dutton Dunwich receives the report of the Water Operations Manager titled "Annual Summary Report 2023", dated January 24, 2024 for information;**  
**AND THAT Section 22 of O.Reg 170/03 requires distribution of the summary report; and**  
**FURTHER THAT the Council of the Municipality of Dutton Dunwich confirms that it received the 2023 Annual Compliance Summary Report at the January 24, 2024 Council Meeting.**

**Motion: CARRIED**