



# *Union Water Supply System Inc.*

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**SENT BY: EMAIL**  
January 30, 2025

Town of Essex  
33 Talbot Street South  
Essex, Ontario  
N8M 1A8

**Attention: Mr. Doug Sweet, Chief Administrative Officer**

Mr. Sweet,

**RE: Annual Report (2024) Requirement Section 11**

Attached is the Annual Report (Section 11, Reg. 170/03) for the Essex Water Distribution System supplied by the Union Water Supply System (UWSS) Inc. and prepared on behalf of your distribution system.

The Annual Report must be prepared before February 28, 2025, which requirement is now satisfied. It must also be provided to all members of Council, given at no charge to the public on request and posted on the municipal website.

Please call me if you have any questions or comments.

Yours truly,

A handwritten signature in blue ink, appearing to read 'R. Bouchard', is written over a light blue horizontal line.

Rodney Bouchard, CEO  
Union Water Supply System Inc.

kmj  
cc: Rob Mackie, Kevin Girard



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**



**Annual Performance Report**

**Essex Distribution System**

**Drinking Water System # 220003680**

**2024**

**Prepared for the Corporation of the Town of Essex**

**By the Ontario Clean Water Agency**

**ANNUAL REPORT**

Drinking Water System Number:	220003680
Drinking Water System Name:	Essex Distribution System (Union WSS)
Drinking Water System Owner:	The Corporation of the Town of Essex
Drinking Water System Category:	Large Municipal Residential
Period being reported:	01-January-2024 to 31-December 2024

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking Water System serve more than 10,000 people? Yes [ ] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Town of Essex Municipal Office 33 Talbot St. South Essex, Ontario</p> </div>	<p><b><u>Complete for all other Categories</u></b></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</div></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</div></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p>
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*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 all their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	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 drinking water? Yes [ ] No [N/A]

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**

Stand Alone Distribution System. Serving the northern portion of the Town of Essex with a population of approx. 9,500.

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

N/A

**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**

650m of 200mm PVC watermain and services replaced on Irwin Ave- \$497,689

**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
None					

**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 Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
<b>Raw</b>	Please see the Annual Report for the Union Water Supply System # 210000853				
<b>Treated</b>	Please see the Annual Report for the Union Water Supply System # 210000853				
<b>Distribution</b>	310	0-0	0-0	153	<10 - 60

**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
<b>Turbidity</b>	Please see the Annual Report for the Union Water Supply System # 210000853		
<b>Chlorine</b>	472	0.74 – 1.66	mg/L
<b>Fluoride (If the DWS provides fluoridation)</b>	N/A		

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

**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
None				

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Nitrite (N)	08-Jan-2024	<0.05	mg/L	No
Nitrate (N)		0.49	mg/L	No
Ammonia N-Total		<0.05	mg/L	No
Nitrite (N)	03-Apr-2024	<0.05	mg/L	No
Nitrate (N)		0.70	mg/L	No
Ammonia N-Total		0.07	mg/L	No
Nitrite (N)	03-July-2024	< 0.05	mg/L	No
Nitrate (N)		0.38	mg/L	No
Ammonia N-Total		<0.05	mg/L	No
Nitrite (N)	02-Oct-2024	<0.05	mg/L	No
Nitrate (N)		0.14	mg/L	No
Ammonia N-Total		<0.05	mg/L	No

**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	N/A	N/A
Distribution - Lead	N/A	N/A	N/A	N/A
Distribution - Alkalinity	6	83 – 89	mg/L	N/A
Distribution - pH	6	7.43 – 7.49	N/A	N/A

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM	Annual Average	41.5	ug/L	No
HAA	Annual Average	14.0	ug/L	No

**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
None			