

February 19, 2025

Robin Greenall
Corporation of the Municipality of West Elgin
22413 Hoskins Line
Rodney, ON N0L 2C0

Re: Requirement under the Safe Drinking Water Act for a Summary Report

Dear Robin Greenall

Attached is the 2024 Summary Report for the West Elgin Distribution System for January 1st to December 31st, 2024. This report is completed in accordance with Section 11 and Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act.

This Summary Report is to be provided to the members of council by March 31st, 2025.

Section 12 of O. Reg. 170/03, requires the Annual Report required under Section 11 of O. Reg. 170/03 to be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the Municipality, or at a location that is reasonably convenient to the users of the water system.

Please feel free to contact me should you require any additional information regarding these reports. I can be reached at 519-312-0847.

Sincerely,



Terri-Lynn Thomson
Process and Compliance Technician

cc. Sam Sianas OCWA Regional Manager
Sam Smith, OCWA Senior Operations Manager
Maegan Garber, OCWA Safety, Process and Compliance Manager
Terri Towstiuc, Municipality of West Elgin

West Elgin Distribution System

Waterworks # 260094627
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The Corporation of the Municipality of West
Elgin

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

Issued: Feb 19th, 2025

Revision: 0

Operating Authority:



This report has been prepared to satisfy the annual reporting requirements in O.Reg 170/03 Section 11 and Schedule 22.

Table of Contents

Annual Water Report	1
Revision History	1
Report Availability	1
Compliance Report Card	1
System Process Description	1
Distribution	1
Treatment Chemicals	2
Treatment Chemicals used during the reporting year	2
Summary of Non-Compliance	2
Adverse Water Quality Incidents	2
Non-Compliance	2
Non-Compliance Identified in a Ministry Inspection	2
Flows	3
Regulatory Sample Results Summary	4
Microbiological Testing	4
Operational Testing	4
Summary of Lead Testing:	4
Organic Parameters	4
Additional Legislated Samples	4
Major Maintenance Summary	5
Distribution Maintenance	5

Revision History

Date	Revision #	Revision Notes
2025-02-19	0	Report Issued

Report Availability

This system does not serve more than 10,000 people and the annual reports will be available to residents at the Municipality of West Elgin Municipal Office. Notification will be at the Municipal Office and copies provided free of charge, if requested. The West Elgin Municipal Office is located at, 22413 Hoskins Street in the Town of Rodney.

Compliance Report Card

Compliance Event	# of Events
Ministry of Environment Inspections	1
Ministry of Labour Inspections	0
QEMS External Audit	1
AWQI's/BWA	1
Non-Compliance	0
Community Complaints	0
Spills	0
Watermain Breaks	0

System Process Description

Distribution

The West Elgin Distribution System receives water from the Tri-County Drinking Water System. The West Elgin Distribution System services West Lorne, Rodney and rural areas of West Elgin. The distribution system contains a network of watermains along with a water tower located in Rodney with re-chlorination. There are sample stations, hydrants, blow offs and auto flushers located throughout the municipality for monitoring the system.

The West Elgin Distribution System provides water to the Southwest Middlesex Distribution System.. As well, the system supplies water to the Dutton-Dunwich Distribution System via Pioneer Line.

Treatment Chemicals

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Secondary Disinfection	Jutzi

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
July 24, 2024	165742	SS#10-124 Queen Street, Rodney	3 Total Coliform and 3 E.coli (cfu/100mL)	A routine sample taken on July 22, 2024 came back positive for Total Coliform and E.coli.	O.Reg.170/03	On July 24th and July 25th samples were taken upstream, downstream and at the source. Draft results were received by July 26th showing 0 Total Coliform and 0 E.coli.

The Southwestern Public Health unit issued a precautionary boil water advisory for the following locations: Pioneer Line from Wellington St in West Lorne to Furnival Rd in Rodney, Catherine Rd, and the town of Rodney. The advisory was issued on July 24th and rescinded on July 26th.

Non-Compliance

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

The West Elgin Distribution System was operated and maintained in such a manner that the water supplied to the consumers serviced by the system satisfies the Ontario Drinking Water Quality Standards aside from the above adverse water quality incident.

The 2023 routine, annual MECP inspection was conducted on January 17, 2024 by Provincial Officer Meghan Morgan. The inspection covered the period from Mar 1, 2023 to December 31, 2023. The inspection report was received on March 21, 2024 with no non-compliances and an inspection rating of 100%

The 2024 routine, annual MECP inspection was conducted on January 24, 2025 by Provincial Officer

Meghan Morgan. The inspection covered the period from January 1, 2024 to December 31, 2024. The inspection report has not yet been received.

Flows

The West Elgin Distribution System is operated in accordance with Municipal Drinking Water Licence 304-101, and Drinking Water Works Permit 304-201. There are no rated capacities specified in the Municipal Drinking Water Licence.

In accordance with Schedule 22-2(3) 1, find a summary and discussion of the quantity of water supplied during the reporting period.

The West Elgin Distribution System is supplied from the Tri-County Drinking Water System. The flow is metered as it leaves the treatment plant. The total volume supplied from the treatment plant to the distribution system in 2024 was 1,053,078m³. This flow is distributed to the following distribution systems:

- West Elgin Distribution System
- Southwest Middlesex Distribution System
- Dutton Dunwich Distribution System
- Newbury Distribution System
- Bothwell Distribution System

There are various meters to monitor flow throughout the West Elgin Distribution System and the other distribution systems that are supplied by the system. Find below a summary of the flows from the various flow meters throughout the distribution system.

	West Lorne Train WTP (m ³)	West Elgin North (m ³)	Pioneer Line (m ³)	Marsh Line (m ³)	Silver Clay Line (m ³)	Eagle West (m ³)
January	77,730	9,658	4,666	7,657	0	95
February	74,392	10,360	4,127	6,899	4,529	286
March	75,671	10,159	3,287	8,885	0	396
April	79,761	14,377	1,846	13,955	5,177	331
May	103,468	23,102	4,366	11,198	12,364	90
June	101,097	12,041	4,406	12,124	13,377	75
July	100,776	6,518	3,222	17,626	11,670	41
August	103,164	14,066	3,400	18,995	4,091	63
September	99,894	14,346	2,957	17,416	3,614	84
October	95,131	14,643	2,409	15,797	3,124	167
November	70,331	6,700	1,483	11,036	2,827	342
December	71,663	5,707	1,367	11,588	12,138	807
Total	1,053,078	141,677	37,535	153,175	72,910	2,776

Regulatory Sample Results Summary

Microbiological Testing

	No. of Samples Collected	Range of E.Coli Results		Range of Total Coliform Results		No. of Samples Collected	Range of HPC Results	
		Min	Max	Min	Max		Min	Max
Distribution Water	219	0	3	0	3	113	<10	40

Operational Testing

	No. of Samples Collected	Range of Results	
		Minimum	Maximum
Free Chlorine Residual, DW Field (mg/L)	368	0.40	1.53

Summary of Lead Testing:

Schedule 15.1 sampling is required under O.Reg 170/03. This system is under reduced sampling requiring lead samples to be collected every 3rd year in the winter and summer period.

Distribution System	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
Alkalinity (mg/L)	6	99	105	N/A	N/A
pH	6	6.98	7.98	N/A	N/A
Lead (ug/l)	6	0.03	1.62	10	0

Organic Parameters

These parameters are tested quarterly as a requirement under O.Reg 170/03.

Distribution Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Trihalomethane: Total (ug/L) Annual Average-DW	2024	60.50	100	0	1
Haloacetic Acids: Total (ug/L) Annual Average-DW	2024	28.23	80	0	0

MAC = Maximum Allowable Concentration as per O.Reg 169/03

Additional Legislated Samples

There is no additional sampling required in the West Elgin Distribution System.

Major Maintenance Summary

Distribution Maintenance

Details
Fire Hydrant Maintenance
Blowoff/sample station Maintenance
Valve Repair/Replacement
Auto flusher Maintenance/repair