



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260004969
Drinking-Water System Name:	Town of Tecumseh Distribution System
Drinking-Water System Owner:	The Corporation of The Town of Tecumseh
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	01- January -2021 to 31- December – 2021

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [x] No []</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 Tecumseh Municipal Office 917 Lesperance Road Tecumseh, Ontario N8N 1W9</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: 20px;">N/A</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [X] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: 20px;">2</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [x] 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 of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Lakeshore Dist. System	260004982

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 of its drinking water?

Yes [x] 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

Water Distribution System

The Town of Tecumseh, City of Windsor and the Windsor Utilities Commission (WUC) entered into a 50-year Service Agreement in November 2004. The Service Agreement was implemented on March 31, 2006 when four boundary metering chambers were installed and maintained by the Town of Tecumseh. Tecumseh’s drinking water system also includes a water tower located on Tecumseh Road, with no re-chlorination stations within the distribution system

Prior to August 1, 2008, WUC provided water to 2,400 residents in the former Township of Sandwich South, south of Highway 401 (“South Water Area”). The Town installed eight additional boundary meter chambers and assumed the responsibility for the operations and maintenance of the water distribution system from WUC in this South Water Area effective August 1, 2008.

The Town of Tecumseh and the Town of Lakeshore entered into an agreement on May 13, 2003 whereby the Tecumseh distribution system supplies drinking water to the Lakeshore distribution system. This agreement expired on December 31, 2007 and is currently being renegotiated; the status quo is maintained until a new agreement is signed.

List all water treatment chemicals used over this reporting period

N/A

Were any significant expenses incurred to?

- No Yes Install required equipment
- No Yes Repair required equipment
- No Yes Replace required equipment- Public Works Report No.2020-33



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

Construction to continue on the watermain replacement project at Highway No.3/Walker Road; This project involves the replacement of the existing 150mm and 200mm diameter ductile iron watermain at the Highway 3/County Road 11 intersection from Oldcastle Road westerly to approximately 450m west of County Road 11 (Walker Road) and along County Road 11 from McCord Lane southerly to just south of Highway 3 with new 200mm and 300mm diameter watermains. Total cost of projects was \$1,390,658, excluding HST.

Construction of the Manning Road Improvement Project (Phase 2)

This project involves the replacement of the existing 150mm diameter of Cast Iron watermain on Manning Road from St. Thomas Street to Riverside Drive with new 250mm diameter watermain (approximately 690m). Included in this project is replacement of 150mm diameter Cast Iron watermain on St. Thomas from Manning Road to Grace Road with 150mm diameter PVC watermain (approximately 90m) and connecting Little River Road between Manning Road and Grace Road (approximately 90m). Total cost of projects was \$1,038,300 excluding HST.

Reflective colour coded ring that is installed on the side nozzles of the hydrant. The reflective rings make the hydrants extremely visible at night clearly identifying the available flow capacity. Total cost of projects was \$15,000 excluding HST.

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 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	506	0 to 0	0 to 0	145	0 to 10

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 #)

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



Turbidity	N/A	
Chlorine Tecumseh Water Tower	8760	Max 1.35 mg/L Min 0.66 mg/L
Chlorine Distribution Free Chlorine Residuals	1572	Max 1.72 mg/L Min 0.21 mg/L
Fluoride (If the DWS provides fluoridation)	N/A	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
*Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

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 Distribution	Number of Samples	Alkalinity Result (range 30-500)	Lead Result (range 0-0.01)	Unit of Measure	Field pH (range 0-14)	Number of Exceedances
Winter Session – Collection Date: March 18, 2021						
145 David	1	74	0.00093	Mg/L	7.3	None
645 Labute	1	70	0.00017	Mg/L	7.2	
1630 Shawnee	1	72	0.00025	Mg/L	7.2	
247 Warwick	1	70	0.00019	Mg/L	7.6	

Location Type Distribution	Number of Samples	Alkalinity Result (range 30-500)	Lead Result (range 0-0.01)	Unit of Measure	Field pH (range 0-14)	Number of Exceedances
Summer Session – Collection Date: October 7, 2021						
163 Arlington	1	80	0.00007	Mg/L	7.0	None
145 Jeffery	1	82	0.00008	Mg/L	7.1	
317 Gordon	1	81	0.00006	Mg/L	6.9	
185 Chene	1	81	0.00002	Mg/L	6.9	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				



1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2-4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Haloacetic Acids (HAAs) (NOTE: show latest running annual average)	quarterly	16.1	µg/L	None
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest running annual average)	quarterly	27.27	µg/L	None
Temephos				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

Summary table for Running Annual Averages of Organic Parameters sampled during this reporting period.

Parameter	Sample Date	Result	Running Annual Average	Unit of Measure	Number of Exceedances
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HAA	Jan.7, 2020	13.3	16.1	µg/L	None
	Apr.14, 2020	6.5		µg/L	
	July 5, 2020	27.3		µg/L	
	Oct.4, 2020	17.2		µg/L	

Parameter	Sample Date	Average Result	Running Annual Average	Unit of Measure	Number of Exceedances
THM	Jan.4, 2020	18.3	27.27	µg/L	None
	Apr.9, 2020	20		µg/L	
	July 5, 2020	33		µg/L	
	Oct.4, 2020	37		µg/L	

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
N/A			