

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003314
Drinking-Water System Name:	Tecumseh Water Treatment Plant
Drinking-Water System Owner:	Corporation of the Town of Tecumseh
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2003 to December 31, 2003

<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 [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Location where 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 Water Department 1189 LaCasse Boulevard Tecumseh, ON N8N 2C7</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 50px; text-align: center;" type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [<input type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Number of Interested Authorities you report to: <input style="width: 50px; text-align: center;" type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [<input type="checkbox"/>] No [<input type="checkbox"/>]</p>
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List Drinking-Water Systems, which receive all of their drinking water from your system:

Town of Tecumseh (north) Works# 260004956

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 [] 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 Town Newsletter

Describe your Drinking-Water System

The area serviced by the TWTP represents approximately 22,900 residents and encompasses the former Town of Tecumseh, the former Village of St. Clair Beach and the portion of the former Township of Sandwich South bounded by the King's Highway 401 to the south, Essex County Road 17 to the west and Essex County Road 19 to the east. The Town owns, operates and maintains this system that is identified as MOE Works #260004956.

The Treatment Plant (Works #220003314) is located at 9725 Riverside Dr. East in the City of Windsor. The plant is operated by the Ontario Clean Water Agency (OCWA) under contract to the Town of Tecumseh.

Water is drawn into the plant from an intake pipe located in the Detroit River between Peche Island and the shoreline. The treatment plant employs chemically assisted filtration and uses chlorine gas for disinfection.

List all water treatment chemicals used over this reporting period

Clarification Chemicals:

- Aluminum Sulfate – Coagulant
- Nalclear 8181 (polymer) – Coagulant Aid (Seasonal)
- Granular Activated Carbon – Taste and Odour Control

Filtration:

- Cat-Floc 8103 Plus (polymer) – Filter Aid (Seasonal)

Disinfection:

- Chlorine Gas

Were any significant expenses incurred to?

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

Describe

The WTP is scheduled for a major upgrade commencing in the Spring of 2004.

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

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
7/8/2003	Total Coliform	1	cfu/100ml	Resample/Flush	7/9/2003
7/9/2003	Total Coliform	2	cfu/100ml	Resample/Disinfection Restored/ Flush	7/11/2003
7/11/2003	APC	820	cfu/ml	Resample/Disinfection Restored/ Flush	7/14/2003
4/8/2003	Sodium	20.9	Mg/L	Resample	4/23/2003

Microbiological testing done under section 8 (2) during this reporting period

	Number of Samples	Range of E.Coli or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	52	0-40	0-600	N/A	
Treated	62	0-0	0-2	50	0-820
Distribution	423	0-0	0-0	156	0-15

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	.03-.164
Chlorine	8760	1.01-1.32
Fluoride (If the DWS provides fluoridation)		

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

NOTE: Fluoridation feed was stopped at the Tecumseh Water Treatment Plant on February 11, 2002. Pending legal review on the proper process, it is the present Council's intention to eliminate fluoridation.

***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 or order.

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure
01/25/02 8839-56DR9T	Suspended Solids	Monthly Sample (Composites)	2003 Avg, - 26 Min - 2 Max - 44	mg/l

Summary of Inorganic parameters tested during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	10/07/03	0.6	ug/L	
Arsenic	4/8/2003	2	ug/L	
Barium	4/8/2003	22	ug/L	
Boron	4/8/2003	40	ug/L	
Cadmium	4/8/2003	0.1	ug/L	
Chromium	4/8/2003	0.1	ug/L	
Lead	4/8/2003 10/07/03	0.6 0.6	ug/L	
Mercury	4/8/2003	0.1	ug/L	
Selenium	4/8/2003	3	ug/L	
Sodium	04/08/03 05/02/03 06/02/03	TW-20.9 DDW- 6.3 TW-4.5 TW-5	mg/l	
Uranium	4/8/2003	0.1	ug/L	
Fluoride	01/13/03 07/08/03	0.06 0.07	mg/l	
Nitrite as N	01/13/03 4/8/2003 7/9/2003 10/07/03	0.011 TW-0.011 DDW-.011 0.011 0.011	mg/l	
Nitrate as N	01/13/03 4/8/2003 7/9/2003 10/07/03	0.343 TW-0.517 DDW-.519 0.324 0.116	mg/l	

**NOTE: TW - TREATED WATER
DDW - DISTRIBUTION DRINKING WATER**

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	01/13/03	.09	ug/L	
	04/08/03	.09		
Aldicarb	01/13/03	.76	ug/L	
	04/08/03	.76		
Aldrin + Dieldrin	01/13/03	.05	ug/L	
	04/08/03	.05		
Atrazine + N-dealkylated metabolites	01/13/03	.43	ug/L	
	04/08/03	.43		
Azinphos-methyl	01/13/03	.59	ug/L	
	04/08/03	.59		
Bendiocarb	01/13/03	.27	ug/L	
	04/08/03	.27		
Benzene	01/13/03	.36	ug/L	
	04/08/03	.36		
Benzo(a)pyrene	10/07/03	.004	ug/L	
Bromoxynil	01/13/03	.06	ug/L	
	04/08/03	.06		
Carbaryl	01/13/03	.14	ug/L	
	04/08/03	.14		
Carbofuran	01/13/03	.14	ug/L	
	04/08/03	.14		
Carbon Tetrachloride	01/13/03	.34	ug/L	
	04/08/03	.34		
Chlordane (Total)	01/13/03	.2	ug/L	
	04/08/03	.2		
Chlorpyrifos	01/13/03	1.2	ug/L	
	04/08/03	1.2		
Cyanazine	01/13/03	.079	ug/L	
	04/08/03	.079		
Diazinon	01/13/03	.41	ug/L	
	04/08/03	.41		
Dicamba	01/13/03	.9	ug/L	
	04/08/03	.9		
1,2-Dichlorobenzene	01/13/03	.56	ug/L	
	04/08/03	.56		
1,4-Dichlorobenzene	01/13/03	.25	ug/L	
	04/08/03	.25		
Dichlorodiphenyltrichloroethane (DDT) + metabolites	01/13/03	.46	ug/L	
	04/08/03	.46		
1,2-Dichloroethane	01/13/03	.32	ug/L	
	04/08/03	.32		

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1,1-Dichloroethylene (vinylidene chloride)	01/13/03	.52	ug/L	
	04/08/03	.52		
Dichloromethane	04/08/03	.89	ug/L	
2-4 Dichlorophenol	01/13/03	.15	ug/L	
	04/08/03	.15		
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/13/03	.33	ug/L	
	04/08/03	.33		
Diclofop-methyl	01/13/03	.84	ug/L	
	04/08/03	.84		
Dimethoate	01/13/03	.1	ug/L	
	04/08/03	.1		
Dinoseb	01/13/03	.42	ug/L	
	04/08/03	.42		
Diquat	01/13/03	1	ug/L	
	04/08/03	1		
Diuron	01/13/03	.66	ug/L	
	04/08/03	.66		
Glyphosate	01/13/03	6	ug/L	
	04/08/03	6		
Heptachlor + Heptachlor Epoxide	01/13/03	.2	ug/L	
	04/08/03	.2		
Linadane (Total)	01/13/03	.13	ug/L	
	04/08/03	.13		
Malathion	01/13/03	.37	ug/L	
	04/08/03	.37		
Methoxychlor	01/13/03	.64	ug/L	
	04/08/03	.64		
Metolachlor	01/13/03	.58	ug/L	
	04/08/03	.58		
Metribuzin	01/13/03	.5	ug/L	
	04/08/03	.5		
Monochlorobenzene	01/13/03	.46	ug/L	
	04/08/03	.46		
Paraquat	01/13/03	1	ug/L	
	04/08/03	1		
Parathion	01/13/03	1.2	ug/L	
	04/08/03	1.2		
Pentachlorophenol	01/13/03	.15	ug/L	
	04/08/03	.15		
Phorate	01/13/03	.73	ug/L	
	04/08/03	.73		
Picloram	01/13/03	.19	ug/L	
	04/08/03	.19		

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Polychlorinated Biphenyls(PCB)	01/13/03	.04	ug/L	
	04/08/03	.04		
Prometryne	01/13/03	.16	ug/L	
	04/08/03	.16		
Simazine	01/13/03	.18	ug/L	
	04/08/03	.18		
THM (NOTE: show latest quarterly average)	2003 average	TW-14.3 DDW-24.2	ug/L	
Temephos	01/13/03	.25	ug/L	
	04/08/03	.25		
Terbufos	01/13/03	.73	ug/L	
	04/08/03	.73		
Tetrachloroethylene	01/13/03	.48	ug/L	
	04/08/03	.48		
2,3,4,6-Tetrachlorophenol	01/13/03	.14	ug/L	
	04/08/03	.14		
Triallate	01/13/03	.14	ug/L	
	04/08/03	.14		
Trichloroethylene	01/13/03	.54	ug/L	
	04/08/03	.54		
2,4,6-Trichlorophenol	01/13/03	.25	ug/L	
	04/08/03	.25		
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	01/13/03	.47	ug/L	
	04/08/03	.47		
Trifluralin	01/13/03	.35	ug/L	
	04/08/03	.35		
Vinyl Chloride	08/21/03	.08	ug/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
Terbufos	.73	ug/L	01/13/03
	.73		04/08/03

Because the “Result Value” is a Minimum Detection Limit (MDL) schedule 13 section 13-5 of O.Reg 170/03 does not apply.

(Only if category is large municipal residential, small municipal residential, large municipal non residential, small municipal non residential, large non municipal non residential)