

Annual Summary Report
For the
Tecumseh Water Treatment Plant
(260003314)
For the Year
2005

Prepared for the Town of Tecumseh
By Ontario Clean Water Agency

2005 Tecumseh WTP Summary Report (O.Reg 170/03 Schedule 22)

Report

This report is a summary of water quality information for the Tecumseh Water Supply System, published in accordance with Schedule 22 of Ontario's Drinking-Water Systems Regulation for the reporting period of January 1, 2005 to December 31, 2005. The Tecumseh Water Supply System is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by The Ontario Clean Water Agency on behalf of "The Corporation of the Town of Tecumseh"

The following table lists the requirements that the system failed to meet and the measures taken to correct the failure:

Drinking Water Legislation	List the requirement(s) the system failed to meet	Specify the duration of the failure (i.e. date(s))	Describe the measures taken to correct the failure	Status (complete or outstanding)
Safe Drinking Water Act	None			
Ontario Regulations (eg. O.Reg 170/03, O.Reg 435/93, O.Reg 903)	None			
System Certificate of Approval #8383-6DYLS8	Section 5.6 States that a monthly composite sample shall be taken of the process wastewater, and analyzed for suspended solids.	On 2 occasions the process wastewater composite samples were not taken by the Plant Operating Authority. July and November 2005	The sampling schedule has been posted on a calendar and an individual Operator has been assigned specific samples.	Complete
	Section 4.4 States the annual average of the process wastewater discharge not exceed 25 mg/l S.S.	The annual average of the process wastewater was 33.5 mg/l S.S.	There is no treatment for the process wastewater discharge.	Outstanding
	Section 8.1 States that certain upgrades and improvements shall be completed by 31-Dec-2003 subject to approval by the MOE.	The upgrades have not been completed.	KMK Consulting, on the Owners behalf, has applied for relief due to the TWTP closure in the Spring of 2006.	Outstanding
Provincial Officer's Order No.	None			

(3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

(1) A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows and daily instantaneous peak flow rates.

- **See Appendix 1 for Raw & Treated flow information (monthly) 2005 data**

(2) A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval.

Per Tecumseh Water Treatment Plant Certificate of Approval (8383-6DYLS8) Under section "Part 4.1 -Performance", Flow conditions are as follows:

"The drinking-water system shall not be operated to exceed for the maximum flow rate into the treatment system

Approved maximum flow rate into the treatment system : 1,140 m³/hr

TWTP actual maximum flow rate into the treatment system : 953.5 m³/hr

TWTP maximum raw instantaneous flow was 83.6% of the rated capacity

Appendix 1

Raw Water Flows [RW – Peche Isle Channel]

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Summary
Raw Flow: Sum (m³/d)													
Avg:	10,729	10,530	10,264	10,627	13,083	19,416	19,187	20,113	17,009	12,955	11,846	12,388	14,012
Sum:	332,621	294,839	318,183	318,824	405,589	582,501	594,825	623,511	510,293	401,607	355,397	384,050	5,122,246
Max:	11,105	11,101	11,092	13,165	18,761	22,830	22,884	22,643	20,970	15,151	15,865	13,951	22,884
Raw Flow: Avg. (m³/h)													
Avg:	447	438	427	442	545	809	799	838	708	539	493	516	583
Raw Flow: Peak (m³/h)													
Max:	462.7	462.5	462.1	548.5	781.7	951.2	953.5	943.4	873.7	631.4	661.0	581.2	953.5

Treated Water Flows [TW - Tecumseh SUPPLY HIGHLIFT P.O.E]

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Summary
Treated Flow : (m³/d)													
Avg:	8,035	7,986	8,268	9,251	11,466	17,475	17,286	17,727	14,567	11,076	10,249	9,788	11,931
Sum:	249,107	223,608	256,321	277,551	355,456	524,253	535,873	549,561	437,025	343,373	307,486	303,431	4,363,050
Max:	9,023	8,919	9,587	11,796	16,697	22,634	22,184	21,443	18,915	13,451	13,592	10,578	22,634
Treated Flow Average : (m³/h)													
Avg:	334.7	332.7	344.5	385.4	477.7	728.1	720.2	736.6	606.9	461.5	427.0	407.8	497.1
Treated Flow Peak : (m³/h)													
Max:	375.9	371.6	399.4	491.5	695.7	943.0	924.3	893.4	788.1	560.4	566.3	440.7	943.0