

2008 Compliance Report for the Thamesville Water Pollution Control Plant Public Utilities Commission for the Municipality of Chatham-Kent

The Thamesville Water Pollution Control Plant provides treatment of wastewater for approximately 1,000 residents of Thamesville. Wastewater is collected and pumped to the plant by 2 sanitary pumps stations located in Thamesville.

The Thamesville Water Pollution Control Plant is an Extended Aeration Plant with chemical phosphorus removal and final effluent disinfection. The plant was built in 1979 with a maximum design flow of 818 m³/day. The plant discharges its final effluent to the Thames River.

The existing treatment system uses the following processes:

- Raw sewage pumping
- Screening collection and removal
- Aeration Tanks
- Chemical phosphorus removal
- Settling Clarifiers
- Chlorine disinfection of final effluent
- Sludge collection and pumpage
- Aerated sludge holding tank

Sludge from the holding tank is applied to agricultural land in the spring and fall each year.

Non-compliance issues for 2008:

None.

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Plant Rated Capacity (m3/day): 818

Month	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	BOD5 mg/l	Total S.S. mg/l	Unionized Ammonia mg/l	Total P mg/l	Total CL2 mg/l
Limits: Freezing				15	15	0.2	1.0	0.5
Limits: Non Freezing				15	15	0.2	1.0	0.5
January	8,177	264	32.3%	7.0	6.4	0.003621	0.58	0.38
February	8,032	277	33.9%	<2.0	12.7	0.005402	0.78	0.34
March	9,320	301	36.8%	<2.0	10.8	0.002997	0.61	0.36
April	10,094	336	41.1%	<2.0	6.2	0.003509	0.48	0.37
May	7,815	252	30.8%	2.0	3.4	0.001036	0.46	0.33
June	7,031	234	28.6%	<2.0	5.0	0.005478	0.73	0.34
July	7,596	245	30.0%	<2.0	3.8	0.002688	0.69	0.36
August	6,971	240	29.3%	<2.0	9.0	0.008137	0.64	0.34
September	7,516	251	30.7%	3.0	5.8	0.007502	0.58	0.36
October	7,175	231	28.2%	15	7.6	0.010395	0.51	0.35
November	7,830	261	31.9%	<2.0	5.7	0.040260	0.41	0.35
December	9,976	322	39.4%	<2.0	8.6	0.059000	0.54	0.33
	Yearly Total Flow m3	Yearly Averages						
	97,533	268	32.8%	3.6	7.1	0.012502	0.58	0.35

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