2016 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 816m3/day. The plant discharges final effluent to the Thames River.

The existing treatment system includes 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.

C of A #1-670-79-006, #1-677-80-006 & #3-1751-95-966

Non-compliance issues in 2016:

There were no non-compliance issues.

2016 Compliance Report for the Thamesville Water Pollution Control Plant Plant Rated Capacity: 816m3/day

Total sewage flow to the works during a calendar year divided by the number of days during which sewage was flowing to the works that year

Month	Total Monthly Effluent Flow m3	Avg Daily Effluent Flow / Month m3/day	Avg Daily Effluent Flow/Year m³/day	% of Plant Capacity	BOD5 mg/L	Total P mg/L	Total S.S. mg/L	Total Cl2 mg/L	Unionized Ammonia mg/L
Limits	none	none	816	100	15.0	1.0	15.0	0.5	0.2
Jan	5,001	161			6.0	0.03	10.0	0.25	0.001
Feb	5,733	198			2.0	0.29	5.0	0.27	0.001
Mar	7,183	232			2.0	0.42	4.0	0.38	0.001
Apr	8,643	288			2.0	0.30	6.0	0.40	0.001
May	7,640	246			2.0	0.53	4.0	0.43	0.001
Jun	6,643	221			3.0	0.67	7.0	0.39	0.000
Jul	5,829	188			2.0	0.42	5.0	0.38	0.002
Aug	5,900	190			2.0	0.19	4.0	0.34	0.001
Sep	5,425	181			2.0	0.37	4.0	0.32	0.001
Oct	5,413	175			2.0	0.32	3.0	0.32	0.001
Nov	5,111	170			2.0	0.22	4.0	0.32	0.002
Dec	5,341	172			2.0	0.25	4.0	0.34	0.001
Month	Total Monthly Effluent Flow m3	Avg Daily Effluent Flow /Month m3/day	Avg Daily Effluent Flow/Year m³/day	% of Plant Capacity	BOD5 mg/L	Total P mg/L	Total S.S. mg/L	Total Cl2 mg/L	Unionized Ammonia mg/L
Limits	none	none	816	100	15.0	1.0	15.0	0.5	0.2
	Yearly Total Flow m3	Yearly Maximums			Yearly Average				
	73,862	288	202	25	2.4	0.33	5.0	0.35	0.001