

**2017 Compliance Report for the Tilbury Water Pollution Control Plant  
Public Utilities Commission for the Municipality of Chatham-Kent**

The Tilbury Wastewater Treatment Plant is located north of Highway 401 in the Town of Lakeshore and treats domestic and industrial wastewater generated by the Town of Tilbury. Wastewater is collected by 8 sanitary pump stations with the Lyon Street Pump Station supplying the facility. This mechanical treatment plant replaced the existing lagoon system. The final effluent is discharged into Tremblay Creek.

The Tilbury Wastewater Treatment Plant upgrade was completed in late December of 2004. The design capacity of the plant is 5,434 m<sup>3</sup>/day with a Peak Flow Rate of 13,700 m<sup>3</sup>/day.

A portion of the lagoon system was turned into a wildlife wetland.

The treatment system includes the following processes:

- Headworks building
- Orbal oxidation ditch
- Two secondary clarifiers
- Tertiary Treatment building
- Ultra Violet Light disinfection

**Certificate of Approval # 6980-6BLJ9R**

**Non-compliance issues for 2017:**

There were no non-compliance issues.

**2017 Compliance Report for the Tilbury Water Pollution Control Plant  
Public Utilities Commission for the Municipality of Chatham-Kent**

**Plant rated capacity of 5,434m<sup>3</sup>/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 Flow m <sup>3</sup>	Avg Daily Flow /Month m <sup>3</sup> /day	Avg Daily Flow/ Year m <sup>3</sup> /day	% of Plant Capacity	CBOD5 mg/L	Total S.S. mg/L	Total Ammonia mg/L	Total P mg/L	pH Min	pH Max	E.Coli/100 mL CFU GeoMean
Limits: May 1 – Oct 31	None	None	5,434	100	10	10	2.0	0.50	6.0 – 9.5		150
Limits: Nov 1 – Apr 31	None	None	5,434	100	10	10	4.0	0.50	6.0 – 9.5		150
Objectives: May 1 – Oct 31	None	None	5,434	100	5	5	1.0	0.30	6.0 – 9.5		100
Objectives: Nov 1 – Apr 31	None	None	5,434	100	5	5	2.0	0.30	6.0 – 9.5		100
Jan	69,975	2,257			2.0	4.0	0.06	0.33	6.7	7.8	12
Feb	66,190	2,364			2.0	5.0	0.05	0.32	6.8	8.0	10
Mar	77,885	2,512			2.0	4.0	0.05	0.36	7.4	8.5	10
Apr	69,609	2,320			2.3	4.0	0.05	0.21	7.5	8.3	10
May	75,035	2,420			2.0	4.0	0.07	0.25	6.7	7.8	10
Jun	61,256	2,042			2.0	3.0	0.07	0.36	6.7	7.9	10
Jul	61,045	1,969			2.0	3.0	0.06	0.34	6.7	7.8	10
Aug	66,290	2,138			2.0	3.0	0.05	0.50	7.0	7.6	10
Sept	63,737	2,125			2.0	2.0	0.07	0.43	7.0	7.7	10
Oct	67,331	2,172			2.0	2.0	0.05	0.39	6.9	8.0	10
Nov	76,225	2,541			2.0	3.0	0.05	0.37	6.8	8.1	10
Dec	58,300	1,881			2.0	4.0	0.07	0.40	7.5	7.9	10
YEAR			2,227	41							
	<b>Yearly Total Flow m<sup>3</sup></b>	<b>Yearly Maximums</b>									
	812,877	2,541			2.3	5.0	0.07	0.50	6.7	8.5	12