

## **2009 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. The purpose of the treatment plant is to treat domestic and industrial wastewater generated by the Town of Tilbury. Wastewater is collected by 2 storm water pump stations and 3 sewage pump stations with the Lyon Street Pump Station supplying the facility. This mechanical treatment plant replaces the existing lagoon system. The treated wastewater is discharged into Trembley Creek.

The Tilbury Wastewater Treatment Plant upgrade was completed in late December of 2004. The new design capacity of the plant is 5,434 m<sup>3</sup>/day. A portion of the lagoon system was turned into a wetland for the wildlife.

The treatment system includes the following processes:

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

### **Non-compliance issues for 2009:**

None.

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**Plant Rated Capacity 5.434 1000 m3/day**

<b>Month</b>	<b>Total Monthly Flow 1000 m3</b>	<b>Average Daily Flow 1000 m3</b>	<b>% of Plant Capacity</b>	<b>CBOD mg/l</b>	<b>Total S.S. mg/l</b>	<b>Total Ammonia mg/l</b>	<b>Total P mg/l</b>	<b>E.Coli /100ml CFU</b>
<b>Limits: Freezing</b>				<b>10.0</b>	<b>10.0</b>	<b>2.0</b>	<b>0.5</b>	<b>150</b>
<b>Limits: Non Freezing</b>				<b>10.0</b>	<b>10.0</b>	<b>4.0</b>	<b>0.5</b>	<b>150</b>
<b>January</b>	58.87	2.06	37.9	5.0	7.0	0.30	0.44	10
<b>February</b>	91.25	3.55	65.3	2.0	4.0	0.12	0.18	10
<b>March</b>	108.74	3.51	64.5	1.0	4.0	0.16	0.18	10
<b>April</b>	80.23	3.34	61.4	2.0	4.0	0.17	0.23	10
<b>May</b>	64.15	2.52	46.3	2.0	2.0	0.12	0.22	10
<b>June</b>	61.86	2.30	42.3	2.0	2.0	0.13	0.30	10
<b>July</b>	61.19	2.16	39.7	2.0	2.0	0.12	0.29	10
<b>August</b>	65.82	2.44	44.9	2.0	2.0	0.12	0.33	10
<b>September</b>	63.39	2.46	45.2	2.0	1.0	0.12	0.45	10
<b>October</b>	66.37	2.43	44.7	2.0	2.0	0.13	0.48	10
<b>November</b>	52.59	1.91	35.1	2.0	2.0	0.19	0.49	10
<b>December</b>	60.68	1.81	33.3	2.0	2.0	0.18	0.45	10
	<b>Yearly Total Flow m3</b>	<b>Yearly Averages</b>						
	835.1	2.50	46.7	2.2	2.8	0.16	0.34	10

**C of A # 8817-5P5MZD**