

## **2015 Compliance Report for the Merlin Sewage Lagoons Public Utilities Commission for the Municipality of Chatham-Kent**

The Merlin Sewage Lagoons provide treatment of wastewater for the former Police Village of Merlin. Wastewater is collected by a separate sanitary sewer system and conveyed by one raw pump station to the Sewage Lagoons. The final effluent is subsequently discharged to the Foxtan Drain.

Approval was received from the Ministry of the Environment in 1975 for construction of sanitary sewers, a force main, a sewage pumping station, and two waste stabilisation ponds.

According to a capacity assessment prepared by R. V. Anderson Associates Limited for the Municipality of Chatham-Kent, average daily flow of sewage into the treatment plant should not exceed 464m<sup>3</sup>/day.

The present treatment system consists of:

- One raw pumping station
- Two waste stabilisation cells
- Two effluent chambers

The effluent chambers discharge to the Foxtan Drain.

### **C of A # 1-0192-69-753576**

The following Ministry Procedures / Guidelines apply:

- Procedure F-5-1: Minimum effluent limits BOD<sub>5</sub>, Suspended Solids
- Guideline F-8: Effluent limits Phosphorus
- Procedure F-10-1: Minimum monitoring program
- Table C-1: Monitoring, recording and reporting bypasses

### **Non-compliance issues in 2015:**

There were no non-compliance issues.

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**Rated capacity: 464 m3/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 m3	Average Daily Flow /Month m3/day	Avg Daily Flow/Year m3/day	% of Plant Capacity	BOD5 mg/L	Total S.S. mg/L	Total P mg/L
Limits: Freezing	None	None	464	100			
Limits: Non Freezing	None	None	464	100	25	25	1.0
Jan	3,857	124					
Feb	3,938	141					
Mar	5,326	172					
Apr	4,524	151			2.7	6	0.20
May	3,571	119					
Jun	4,940	160					
Jul	3,423	110					
Aug	3,019	97					
Sept	3,040	101					
Oct	2,618	87					
Nov	2,963	99					
Dec	4,421	143					
Year			126	27			
	<b>Yearly Total Flow m3</b>	<b>Yearly Maximums</b>					
	45,641	172			2.7	6	0.20