

2008 Compliance Report for the Ridgetown Sewage Treatment Lagoons Public Utilities Commission for the Municipality of Chatham-Kent

The Ridgetown Sewage Treatment Lagoons provide treatment of wastewater for the former Town of Ridgetown. Wastewater is collected by a separate sanitary sewer system and conveyed by one raw pump station to the Sewage Treatment Lagoons. The treated wastewater is subsequently discharged to the Gawne Drain.

Ontario Water Resources Commission Approval for the Ridgetown Sewage Treatment Lagoons was given in 1972. The system was subsequently converted to the New Hamburg Process with the addition of an aeration cell and sand filters in 2002.

According to the Certificate of Approval, average daily flow of sewage into the treatment plant should not exceed 1,537m³/day and peak flow should not exceed 2,990m³/day.

The present treatment system consists of:

- One raw pumping station
- One aeration cell
- Chemical phosphorous removal
- Three waste stabilisation cells
- One filter effluent pump station
- Four effluent sand filters

The underdrain pipes discharge to the outlet channel, and to the Gawne Drain.

Non-compliance issues in 2008:

Exceedances of Average Daily Flow limits occurred during the months of March and April. However, the average annual daily flow was 1,358 m³/day or 88% of rated capacity.

Exceedance in pH range occurred during the month of April.

Exceedance of Total Ammonia Nitrogen occurred during the month of November.

Replacement of the current facility is being undertaken, to accommodate adequate hydraulic storage and system capacity.

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Plant Rated Capacity (m3/day): 1,537

Month	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	CBOD 5 mg/l	Total S.S. mg/l	Total Ammonia mg/l	Total P mg/l	pH	E.Coli /100ml CFU
Limits: Freezing						5.0			
Limits: Non Freezing		1,537		10	10	2.0	0.5	6.0 - 9.5	200
January	41,636	1,343	87	2	1	0.07	0.18	8.4	55
February	45,300	1,510	98						
March	52,924	1,707	111						
April	49,729	1,658	108	4	3	0.78	0.22	8.4	10
May	43,958	1,418	92	3	6	0.69	0.22	8.5	10
June	38,144	1,270	83	2	4	0.12	0.30	8.4	10
July	37,262	1,202	78						
August	35,117	1,133	74						
September	35,334	1,178	77	2	1	0.11	0.34	7.7	57
October	34,661	1,118	73	2	1	0.93	0.29	8.5	37
November	37,481	1,249	81	5	1	5.73	0.24	8.8	87
December	46,887	1,512	98						
	Yearly Total Flow m3	Yearly Averages							
	498,433	1,358	88	3	2	1.20	0.26	8.4	38

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