

2009 Compliance Report for the Blenheim Sewage Treatment Plant Public Utilities Commission for the Municipality of Chatham-Kent

The Blenheim Sewage Treatment Plant provides treatment of wastewater for the former Town of Blenheim, and for Charing Cross, as well as leachate from the Ridge Landfill. Wastewater is collected by a separate sanitary sewer system and conveyed by one raw pump station to the Treatment Lagoons. The treated wastewater is subsequently discharged to the Cameron Drain.

Following several modifications to the original works, approval was received in 1995 for modification of the existing waste stabilisation ponds to the New Hamburg Process, and for expansion of hydraulic capacity.

According to the Certificate of Approval, average daily flow of sewage into the treatment plant should not exceed 4,045m³/day, and peak flow shall not exceed 12,046m³/day.

The present treatment system consists of:

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

The underdrain pipes discharge to the outfall structure, and to the Cameron Drain.

Non-compliance issues in 2009:

There were no non-compliance issues in 2009.

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Plant Rated Capacity (m3/day): 4,045

Month	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	BOD5 mg/l	Total S.S. mg/l	Total Ammonia mg/l	Total P mg/l	E.Coli /100ml CFU
Limits: Freezing				15	15	5.0	1.0	
Limits: Non Freezing		4,045		10	10	3.0	0.5	200
January	68,305	2,203	54					
February	83,861	2,995	74					
March	102,771	3,315	82	3	6	4.50	0.19	25
April	88,536	2,951	73	8	1	1.11	0.14	11
May	81,631	2,633	65	2	1	1.51	0.13	20
June	74,310	2,477	61	2	1	0.08	0.12	10
July	70,253	2,266	56	2	1	0.07	0.15	29
August	67,605	2,181	54	2	1	0.11	0.12	13
September	62,138	2,009	50	2	1	0.07	0.14	122
October	65,471	2,112	52					
November	59,360	1,979	49					
December	65,806	2,123	52					
	Yearly Total Flow m3	Yearly Averages						
	890,047	2,437	60	3	2	1.06	0.14	22