

2016 Compliance Report for the Wallaceburg Water Pollution Control Plant Public Utilities Commission for the Municipality of Chatham-Kent

The Wallaceburg Water Pollution Control Plant provides treatment of wastewater for approximately 11,000 residents of the Town of Wallaceburg. Wastewater is collected and pumped to the plant by 10 sanitary pump stations located throughout the community.

The Wallaceburg Water Pollution Control Plant is a Conventional Activated Sludge Plant with the plant final effluent passing through an Ultra Violet Light Disinfection System. The processed final effluent is then discharged to the Sydenham River. The plant was first built in the late 1960s with a major expansion and upgrading of the facility in 1991.

The rated capacity of the plant is 10,800m³/day average day flow calculated for the calendar year.

Maximum hydraulic capacity for primary treatment and disinfection facilities is 35,000m³/day.

The following processes are included in this treatment system:

- Raw sewage pumping
- Screening collection and removal
- Aerated grit tank
- Primary treatment of raw sewage with sludge collection.
- Chemical phosphorus removal
- Biological treatment using Conventional Activated Sludge for secondary treatment.
- Final Settling
- Disinfection of final effluent using Ultra Violet Light
- Sludge holding tanks

ECA # 3022-9JMQZ6:

Non Compliance issues in 2016:

An exceedance of the average monthly concentration effluent limit for E.Coli occurred for the month of March.

An exceedance of the average monthly concentration effluent limit for Total Suspended Solids occurred for the month of March.

An exceedance of the average monthly waste loading effluent limit for Total Suspended Solids occurred for the month of March.

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Plant Rated Capacity: 10,800 m³/day average daily flow

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 Influent Flow m ³	Avg Daily Influent Flow /Month m ³ /day	Avg Daily Influent Flow/Year m ³ /day	% of Plant Capacity	CBOD5 mg/L	Total S.S. mg/L	Total Ammonia mg/L	Total P mg/L	pH	E.Coli
Limits: Freezing	none	none	10,800	100	25	25	3	1.0	6.5 -8.5	200
Limits: Non Freezing	none	none	10,800	100	25	25	1.5	1.0	6.5 -8.5	200
Jan	171,330	5,527			2.0	5.3	0.08	0.5	7.5	16.8
Feb	199,980	6,896			2.0	5.4	0.12	0.4	7.5	12.5
Mar	317,570	10,244			13.2	34.8	1.43	0.9	7.6	>15000
Apr	198,050	6,602			2.3	7.3	0.07	0.2	7.5	12.6
May	170,530	5,501			2.0	2.8	0.06	0.4	7.5	12.8
Jun	138,620	4,621			2.3	3.3	0.06	0.3	7.6	15.3
Jul	136,980	4,419			2.0	3.8	0.11	0.4	7.4	11.1
Aug	138,940	4,482			2.0	2.8	0.20	0.3	7.2	26.1
Sep	124,200	4,140			2.0	2.0	0.13	0.3	7.3	16.8
Oct	131,070	4,228			2.0	3.0	0.15	0.3	7.4	13.0
Nov	122,330	4,078			2.0	3.8	0.16	0.3	7.4	10.0
Dec	136,430	4,401			2.5	3.0	0.06	0.3	7.2	10.0
Year			5,428	50%						
	Yearly Total Flow m3	Yearly Maximums								
	1,986,030	10,244			13.2	34.8	1.43	0.9	7.6	>15000