

**MUNICIPALITY OF CHATHAM-KENT
PUBLIC UTILITIES COMMISSION**

Dresden Water Pollution Control Plant

The Dresden Water Pollution Control Plant provides treatment of wastewater for approximately 2,500 residents of Dresden. Wastewater is collected and transported to the plant via sanitary sewer system by gravity. There are no sanitary pump stations located in Dresden.

The Dresden Water Pollution Control Plant is an Extended Aeration Plant with chemical phosphorus removal and final effluent disinfection. The plant was built in 1976 with a maximum design flow of 4,546 m³/day . The plant discharges its final effluent to the Sydenham River.

The existing treatment system uses the following processes:

- Raw sewage pumping
- Screening collection and removal
- Aerated Grit System
- Aeration Tanks
- Chemical phosphorus removal
- Settling Clarifiers
- Chlorine disinfection of final effluent
- Sludge collection and pumpage
- Sludge holding lagoons

Sludge from the holding lagoons is applied to agricultural land in the spring and fall each year.

**Municipality of Chatham-Kent
Public Utilities Commission**

Dresden Water Pollution Control Plant

Effluent Limits	
Effluent Parameter	Monthly Average Concentration in mg/L
Total BOD5	25
Total Suspended Solids	25
Unionized Ammonia	0.2
Total Phosphorus	1.0
Total Cl2 Residual	0.5

**Dresden Water Pollution Control Plant
2007 Reporting Period**

Plant Rated Capacity (m3/day): 4,546

Parameter	Total Monthly Flow m3	Average Daily Flow m3/day	% of Plant Capacity	BOD5 mg/L	Total S.S. mg/L	Unionized Ammonia mg/L	Total P mg/L	Total CL2 Residual mg/L
JANUARY	56,605	1,826	40.2%	<2	5.4	0.0022	0.37	0.32
FEBURARY	36,603	1,307	28.8%	3	4.8	0.0027	0.33	.036
MARCH	45,569	1,470	32.3%	<2	5.1	0.0011	0.33	0.34
APRIL	39,486	1,316	28.9%	2.0	4.5	0.0011	0.26	0.33
MAY	39,687	1,280	28.2%	6.0	4.6	0.0020	0.40	0.33
JUNE	29,566	986	21.7%	7.0	5.4	0.0020	0.71	0.27
JULY	35,528	1,146	25.2%	<2.0	3.5	0.0009	0.68	0.38
AUGUST	39,420	1,272	28.0%	<2.0	2.2	0.0091	0.54	0.35
SEPTEMBER	82,210	2,740	60.3%	<2.0	3.0	0.0040	0.47	0.27
OCTOBER	55,773	1,799	39.6%	3.0	2.0	0.0034	0.49	0.30
NOVEMBER	32,376	1,079	23.7%	2.0	9.8	0.0031	0.75	0.34
DECEMBER	37,168	1,199	26.8%	<2.0	9.8	0.0013	0.57	0.36
YEARLY TOTAL FLOW m3	YEARLY AVERAGES							
529,991	1,452	31.9%	2.9	5.0	0.0027	0.50	0.33	