

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

Mitchell's Bay Sewage Lagoon System

The Mitchell's Bay Sewage Lagoon System provides treatment of wastewater for approximately 500 residents of the Mitchell's Bay community. Wastewater is collected and pumped to the sewage lagoon system from one sanitary pump station.

The Mitchell's Bay Sewage Lagoon System was built in 1977 with a maximum design flow of 509 m³/day . This sewage treatment facility consists of 3 treatment cells 5 acres in size each.

Seasonal discharges of final effluent are to Rankin Creek if required in the spring and fall.

There were no discharges of final effluent in 2006.

Lagoon System Rated Capacity (m³/day): 509

Average Daily Flow (m³/day): 138

% of System Capacity: 27.1%

Effluent Limits	
Effluent Parameter	Monthly Average Concentration in mg/L
Total BOD5	25
Total Suspended Solids	25
Total Phosphorus	1.0

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**Mitchell's Bay Lagoon System
2006 Reporting Period**

Lagoon Rated Capacity (m3/day): 509

Parameter	Average Daily Flow m3/day	% of Rated Capacity	BOD5 mg/L	Total S.S. mg/L	Total P mg/L
JANUARY	136	26.7%	N/A	N/A	N/A
FEBURARY	131	25.7%	N/A	N/A	N/A
MARCH	135	26.5%	N/A	N/A	N/A
APRIL	113	22.2%	N/A	N/A	N/A
MAY	138	27.1%	N/A	N/A	N/A
JUNE	147	28.9%	N/A	N/A	N/A
JULY	146	28.7%	N/A	N/A	N/A
AUGUST	128	25.1%	N/A	N/A	N/A
SEPTEMBER	116	22.8%	N/A	N/A	N/A
OCTOBER	150	29.5%	N/A	N/A	N/A
NOVEMBER	154	30.3%	N/A	N/A	N/A
DECEMBER	169	33.2%	N/A	N/A	N/A
AVERAGE	139	27.2%	N/A	N/A	N/A