

# THE DIFFERENCE IS AS NIGHT AND DAY



Situated on the south shore of the St-Lawrence river, near Montréal, the town of Mercier was having major clogging problems in its pumping station.

The station was demanding too much attention from the City Operators and was starting to affect their other duties. Something had to be done.

## The Problem:

Because the station was situated in a developing residential area, the increasing population was putting extra strain on an already fragile system. This dry pit duplex station was getting more than its fair share of unscreened, highly fibrous raw sewage. When it rained, the pumps would clog every second day due to the increase flow of liquids. In drier weather, the station would remain operational for no longer than one week before clogging would re-occur. Then, at least one of the pumps had to be taken apart and thoroughly cleaned before restarting the station.

## The Solution:

As part of its world wide "N" Pump field testing program, ITT Flygt offered the town of Mercier a trial of this new pump.

One of the station's original pumps was left in operation to compare both pumps in the same application. Each pump handles approximately 50 l/s and alternates at the end of each cycle. Both have the same power rating.

## The Results:

After three months of continuous operation, both pumps were dismantled for a visual check. The impeller of the regular pump was wrapped in the usual debris. When the casing of the "N" pump was lifted, everyone was amazed to see a shining new impeller that looked like it was just installed that same day! Not one piece of debris could be found on the impeller's surface or in the "N" pump's volute.

"The difference is as night and day" said André Goulet, Chief Operator for the town of Mercier. An additional welcome benefit was a 16% increase in station efficiency and reduced power consumption, after just one month of operation!



Clogged impeller of the regular pump, during trial period.



Clog-free impeller of the N-Pump after the three month trial period.