Peel Benefits from Pump Efficiency Study

The Region of Peel has been chosen to take part in the Pump Efficiency Assessment and Awareness Pilot Study, conducted in partnership with HydraTek and the Ontario Power Authority. As part of this study, the Region of Peel will be one of a few select Ontario municipalities to enjoy the benefits of pump performance and efficiency testing, increased energy conservation awareness and training.

How does being involved in the study benefit us?
A conventional pump test could cost $2,500 - $6,000 per pump. For this initiative, the cost to the Region is $500 per pump. In addition, the Region benefits from:

- Being part of an Ontario-wide pump efficiency and assessment study with access to the pump-test performances of other municipalities;
- Gaining information that can be used for system planning, design and optimization;
- Learning about potential energy savings for individual pumps; and
- Comparing the results from this study with conventional testing methods, to determine which method best suits the Region's needs.

How will the testing be done?
Pumps will be tested by the thermodynamic method, which has rarely been used in Canada. Conventional efficiency methods rely on the often inaccurate measurement of multiple parameters (power, flow and head). The thermodynamic method, however, uses the principle that nearly all the efficiency loss in a pump is transferred to heat and absorbed by the water it is pumping. This means that a difference between the temperature of the input water and the outlet water shows how efficient the pump is. This method has recently been established as the standard and required method of measuring pump efficiency and performance in many parts of the world.

Who is managing this study?
The Region's pump efficiency is being managed by the Water Division, Capital Works—Transmission and Distribution.