



ITT

Water & Wastewater
Case story | Treatment

The City of Kitchener chooses to upgrade 23 lift stations with ITT W&WW SCADA systems to reduce the number of emergency calls out to site.



The City of Kitchener is a vibrant and confident cosmopolitan community with a population nearing 220,000. Kitchener maintains a strong industrial and business base and is located less than one hour west of Toronto – Canada’s largest city – and a couple of hours from the American cities of Detroit and Buffalo.

The City of Kitchener began a process to upgrade 23 lift stations several years ago, equipping them with state of the art monitoring and control equipment that provides the City the capability to efficiently control their pumping stations and reduce the number of emergency calls out to site.

The City commissioned an independent consulting group in 2003 to complete an engineering study to evaluate the best solution to address Kitchener’s requirements for a complete SCADA system. ITT Water & Wastewater Account Manager Brian Hartwick

in Toronto was then contacted by the consulting group to assist and propose a solution that would provide a means for the city to reach their objectives.

The ITT W&WW Flygt SCADA proposal consisted of:

- FMC units for all lift stations in the collection system;
- Aquaview 1.50 central system allowing 5 client access;
- MTC COM front end alarm handling unit;
- Wireless communication with Spread Spectrum radio;
- Turnkey management of the complete system;
- Training to City of Kitchener personnel.



Retrofitting an existing station is a simple solution. All you need to do is mount the FMC box near the panel, install low voltage wiring to the existing starter, and turn it on. The result is out-of-the-box station operation, control and monitoring using the completely programmed FMC.

Engineered for life

The ITT W&WW system was then compared to the other SCADA systems available on the market. ITT W&WW came out on top in several key areas:

- The Flygt Aquaview software realized over 40% saving to the “program as you go – type systems” considering initial and long range capital costs.
- Extensive field testing and evaluation of Flygt’s FMC station controllers had been done and approved by the City during the first two years of the project.
- The City cited reliability and the ease of operation and configuration by their own City personnel as another benefit in both accountability for the collection system and savings in operational costs.

The City of Kitchener ITT W&WW SCADA system was commissioned in June 2008 and training sessions have been provided to the City personnel.



The City of Kitchener / ITT SCADA Team - Top row from left to right: Jason Phillips, Dennis Dechert, Cory Banks, Bill Smith, Kevin Thyer, Dan Murray and François Gélinault. Bottom row from left to right: Brian Hartwick, Bryan Dubrick, Keith Kaufman, Raj Luckhai, Andy Zadilsky and Robert Barker. Included in the SCADA team but not available for the picture: Marc Holmes and Luc-Réjean Lépine.

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What can ITT Water & Wastewater do for you?

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