



Success Story

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Industry: Water and Wastewater

Customer: Town of Tonawanda Tonawanda, NY



Tonawanda Wastewater Treatment Plant

The Town of Tonawanda formed in 1836 is located north of Buffalo, with a population approximately 80,000. The Water Resource Department operates and maintains hundreds of miles of water and sewer lines. Each year billions of gallons of water drawn from the Niagara River are treated, distributed, collected and cleaned in order to serve their residents. The name Tonawanda, "Swift Waters" was given to the area by Neuter and Eric Indians, the original inhabitants.

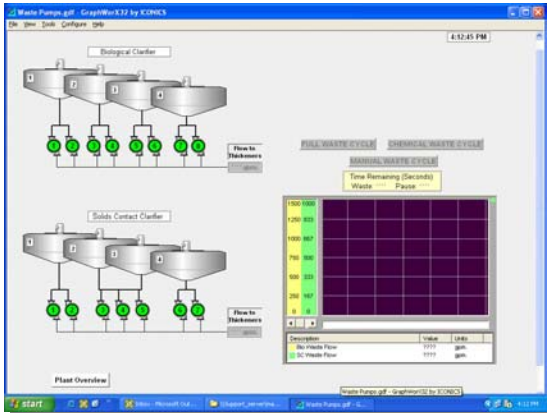
ICONICS Software Deployed

GENESIS32™ Enterprise edition and WebHMI™ are deployed at both the Water and the Wastewater Treatment Facilities. Between both locations there are 5 GENESIS32 servers, 5 Web HMI servers and numerous dedicated and browser based clients. DataWorX™ plays an important role in the application, allowing the Water Treatment Facility's server to act as the back up server for the Wastewater Treatment Facility and visa versa. Both applications take full advantage of the power of GraphWorX32™ providing rich and informative operator screens. TrendWorx32™ is deployed providing operators real-time trending and AlarmWorX32™ Multimedia is used to distribute alarms and events to the appropriate people.

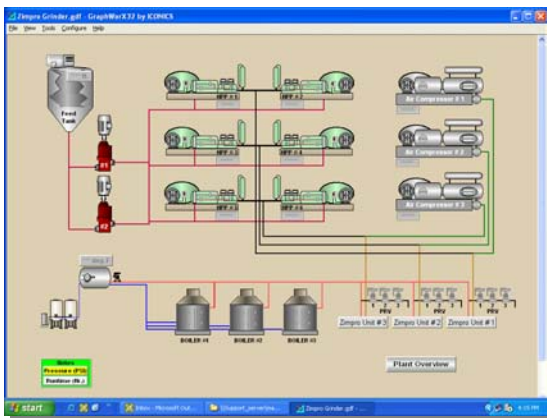
ICONICS software is also deployed at 13 remote pumping stations connected over leased lines back to the control room.

Application Highlights

ICONICS software replaced a legacy Intellution FIX32 HMI/SCADA application when the price for support became too high. The Town of Tonawanda was paying high support cost for the HMI/SCADA package as well as other 3rd party applications such as reporting solutions. Switching to ICONICS paid for itself in the first year. For the price of one year of support GENESIS32 and WEBHMI were installed on a 32 Bit platform at a lower cost providing more technology such as the ability to have true thin client viewing via standard Internet Explorers.



Waste Pump Control Screen



Zimpro Flow Screen

Tip From the Customer

"ICONICS was able to reduce our operational cost while providing us with technology we can grow with".

Ed Rick,
System Manager – Town Of Tonawanda
Water Resource Department

Project Details

The system was installed by Town employees, with sales and technical support from BCS in Buffalo, NY. OPC technology and redundancy both play a significant role in the application. Kepware OPC drivers are used to connect GENESIS32 to Modicon PLCs and Industrial Control Links Devices. The system has approximately 4,000 I/O point in total.

Redundancy is performed at three levels. There are redundant Enterprise servers in each location and each location works as a backup for the other. There is a wireless Ethernet between the locations running over a Cisco backbone. DataWorX32 Redundancy is used to keep the plants in sync. There are redundant OPC drivers in use as well as redundant Ethernet with a recovery time less than 300 milliseconds.

Benefits of the System

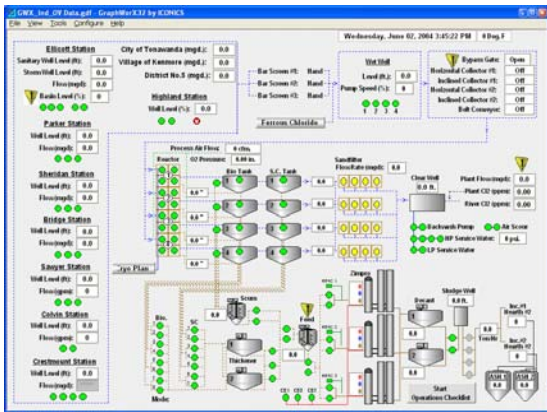
Deploying ICONICS software lowered the expensive support costs to keep the legacy FIX32 and Plant TV systems running. The upgrade also gave the Town of Tonawanda a system they can expand on for years. They have the architecture that supports additional functionality such as Wireless operator stations, the ability to stay connected via mobile phones, and more. In addition to lowering their support cost for the maintenance contracts, supporting the system internally is now minimal. WebHMI a true Thin client solution with all the administration and licensing done on the server. With client side licensing staying connected to the plant can be done anywhere, anytime. All is needed is a username and password.

Conclusion

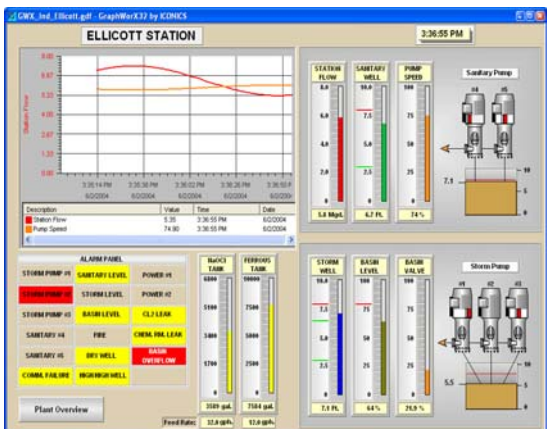
The Town of Tonawanda is continuing to retrofit ICONICS software solutions and is soon to deploy ReportWorX as their reporting standard.



Control Room



Wastewater System Overview Screen



Elliott Pumping Station Screen