

## A CUSTOMER SPOTLIGHT:

# City of Largo, Florida



### Company:

City of Largo, FL  
Wastewater Reclamation  
Facility (WWRF)

<http://www.largo.com/>



### Business Strategy:

To ensure a healthy and safe environment for customers and community through superior wastewater collection, reclamation and regulatory services.

### Company Profile:

The Wastewater Reclamation Facility (WWRF) has a current capacity of 18MGD. The WWRF produces high quality, fully treated wastewater which is used in the City's Reclaimed Water System or discharged into Tampa Bay via the Feather Sound Lake System. The WWRF consists of two master pumping stations; three aerobic treatment plants; six secondary clarifiers; nine denitrification filters; three sand filters; final effluent chlorination and dechlorination systems; surface and reclaimed water distribution systems; four aerobic digesters, two of which are utilized as equalization tanks; and a sludge pelletizing facility.

The Reclaimed Water Program provides highly treated wastewater effluent as an alternate source of water for irrigation and industrial applications. The Wastewater Reclamation Facility (WWRF) produces an average of 13.3 MGD of highly treated effluent per day. The reclaimed system uses an annual average of 8.44 MGD of treated effluent per day. During peak demand, the average daily flow to the reclaimed system is 8.5MGD, with peaks of over 10.0 MGD. Currently, reclaimed water is provided to over 1,955 residential customers and 127 commercial customers.

The Environmental Services Department maintains a state certified laboratory that has the primary responsibility for the sampling and analytical needs of the Treatment Plant. The WWRF Laboratory conducts daily environmental testing of the WWRF's influent and effluent. The WWRF Laboratory is certified to conduct pH, fecal coliform, carbonaceous biochemical oxygen demand, nonfilterable residue, total Kjeldahl nitrogen, nitratennitrite and ammonia testing.

### Sample Master<sup>®</sup> LIMS at the City of Largo:

After evaluating several different systems, the City of Largo WWRF Laboratory determined that ATL's Sample Master<sup>®</sup> LIMS met all their data management needs. The WWRF Laboratory has realized many benefits since implementing Sample Master<sup>®</sup> LIMS, including more efficient management of quality control. Sample Master<sup>®</sup> LIMS is one of the few LIMS that has an integrated QA/QC module that does not rely on 3rd party software for QA/QC. The feature-rich, integrated QA/QC module allows users to graph results and create control charts for data that has been entered into Sample Master<sup>®</sup>. Users can configure tests to include QC, matrix spikes, blanks, duplicates, surrogates, matrix spike duplicator and many others. Control limits may be entered manually or calculated from historical limits. Users can easily select the data to plot using criteria such as test, sample number, analyst, etc.

Sample Master<sup>®</sup> LIMS' powerful electronic reporting capabilities have allowed the WWRF Laboratory to reduce paper copies to plant operations. Sample Master<sup>®</sup> contains powerful reporting functions that allow an unlimited number of user definable custom reports to be created. Over 7 dozen canned reports are included with Sample Master<sup>®</sup> LIMS; which can all be easily modified. Sample Master<sup>®</sup> features direct printing of reports to user selectable printer, fax or email with an integrated PDF generator.

Sample Master<sup>®</sup> LIMS also allows users to utilize the "Master Query" function which allows users to retrieve over 4 million combinations of data in the LIMS for ad hoc reporting utilizing the results of their custom queries and searches. Sample Master<sup>®</sup> LIMS has a "One-Step" function in combination with the "Master Query" that allows users to store ad-hoc selection criteria for future use.

*"ATL sold us a LIMS product that we could use today and modify for tomorrow."*

**Michael Julio, Environmental Compliance Supervisor**  
City of Largo, FL Wastewater Reclamation Facility (WWRF) Laboratory



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