



## Sample Master® LIMS Meets Data Management Needs at City of Largo Wastewater Reclamation Facility

Improved quality control is just one major LIMS benefit.

### Organization Profile

The City of Largo's Wastewater Reclamation Facility's (WWRF) business strategy is to ensure a healthy and safe environment for customers and community through superior wastewater collection, reclamation and regulatory services. The WWRF has a current capacity of 18MGD and 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 WWRF produces an average of 13.3 MGD of highly treated effluent per day, and 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 with the primary responsibility for 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, nitrate-nitrite and ammonia testing.

### Their Challenge

The City of Largo WWRF Laboratory sought more efficient data management and quality control.



City of Largo, Florida  
Wastewater Reclamation Facility  
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“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





## Our Solution

After evaluating several different systems, the WWRF Laboratory determined Sample Master® LIMS would meet all their data management needs. Sample Master is one of few LIMS with an integrated QA/QC module that allows users to graph results and create control charts for data. 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.

In addition, Sample Master's powerful electronic reporting capabilities have allowed the WWRF Laboratory to reduce paper copies with reporting functionality that allow an unlimited number of user definable custom reports. Sample Master also provides direct printing of reports to printer, fax or email with an integrated PDF generator.

WWRF LIMS users utilize the "Master Query" screen to filter and retrieve their data with more than 30 fields and 8 trillion combinations available. An unlimited number of queries can be created, saved and exported. A "One-Step" function in combination with the Master Query allows users to store ad-hoc selection criteria for future use.

Sample Master LIMS has streamlined business processes and improved productivity at the WWRF Laboratory, allowing the Lab to achieve its goals of more efficient data management and quality control.

*Accelerated Technology Laboratories (ATL), headquartered in West End, NC, provides laboratory automation solutions to a variety of industries from analytical, environmental, food & beverage, water and wastewater, agriculture, cannabis, chemical, government, public health, biotechnology, clinical testing and manufacturing. ATL's LIMS products are installed in over 600 laboratories around the world and supported by a steadfast commitment to excellence in product quality, support and training. ATL is one of the few LIMS providers that is ISO 9001:2015 certified. For additional information, visit: [www.atlab.com](http://www.atlab.com).*

