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Aquatic Informatics Launches WIMS Process Manager to Transform Wastewater Treatment with Digital Twin Technology

Aquatic Informatics today announced the release of WIMS Process Manager, the newest addition to the Hach WIMS™ Platform, creating a solution that unifies SCADA, lab, operations, and simulated data. Powered by wastewater modeling software, and digital twin technology, WIMS Process Manager enables wastewater facilities to shift from reactive troubleshooting to proactive planning and optimization. As wastewater facilities navigate costs and resource demands, the ability to optimize processes is critical.

The predictive digital twin technology found in WIMS Process Manager, has significant benefits:

- With advanced simulation models, operators can forecast process outcomes 24 hours in advance, allowing them to identify potential issues before they occur.
- Operators can virtually test process adjustments before implementation, enabling them to preserve resources, identify gaps, and preview outcomes with confidence.
- Whether focused on regulatory compliance, sustainability commitments, or cost optimization, operators can evaluate treatment stages to meet their goals with real-time event detection and process performance validation.

“Traditional systems often highlight issues during or after they occur,” said Megan Baxter, General Manager at Aquatic Informatics. “This limits the ability to fix issues quickly which can result in plant downtime and costly solutions. With WIMS Process Manager, wastewater facilities can view dynamic, virtual replicas of physical plant processes.”

With additional visibility into plant processes, wastewater facilities can control their environment and maximize their existing infrastructure to achieve outcomes. Facilities currently using the WIMS Process Manager have achieved up to a 20 percent reduction in energy and chemical usage through precise dosing and optimized aeration setpoints and up to a 35 percent reduction in nitrous oxide emissions.

Tanner Thorson, Wastewater Plant Superintendent in Louisville Colorado, said “WIMS Process Manager allows us to model changes in advance, and helped us identify opportunities to reduce aeration energy costs while keeping effluent quality well within target limits. The digital twin will also help inform decisions related to our upcoming plant expansion.”

With WIMS Process Manager, wastewater facilities can change how they approach their plant processes and empower operators to make optimal decisions every step of the way. WIMS Process Manager is now available across The Americas, Australia, and Europe.

To find out more about WIMS Process Manager, come see it in action at WEFTEC booth #3814 or visit www.aquaticinformatics.com/products/wims-process-manager



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About Aquatic Informatics

Aquatic Informatics provides software solutions that address critical water data management, analytics, and compliance challenges for the global water industry. By connecting integrated data, people, and processes, the company helps water professionals make informed decisions to protect human health and minimize environmental impact.

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