



# Trimble Unity Wastewater Flow Monitoring & Analysis



## Growing Challenges

Municipalities and wastewater utilities are faced with the challenges of meeting regulatory requirements, acquiring sufficient data to support system capacity and maintenance planning, accurately billing for wastewater custody transfer, assessing asset condition, maintaining an aging infrastructure, and managing high flow volumes from inflow and infiltration.

## Our Solution

Trimble Unity Wastewater Flow Monitoring and Analysis software addresses the challenges faced in the wastewater industry by offering simple to use, GIS and web based workflows to better manage, collaborate, analyze and report on wastewater flow data and network performance. The software is powered by the Trimble Unity GIS-centric cloud and mobile software platform and offers users added value workflows to efficiently manage network assets and field operations.

**Leverage and extend the capabilities of Trimble's Telog Enterprise software to web and mobile.** The software extends Trimble's Telog Enterprise software and its modules are used for advanced workflows and data management, including full Telog Remote Telemetry Unit (RTU) device and alarm management, rainfall-derived infiltration and inflow (RDII) analysis, National Oceanic and Atmospheric Association (NOAA) data importing and computed measurements.

**Monitor and minimize combined and sanitary sewer overflows (CSO/SSO) and environmental impacts.** The software quickly identifies and analyzes flow anomalies that could result in infrastructure failure, flooding, environmental damage and regulatory penalties.

**Preempt and mitigate CSO/SSO such events through real-time situational awareness.** Data analysts and engineers are empowered with spatial tools and reports to make informed decisions when responding to system surcharges and other such events.

**Make informed decisions when planning capital investment projects.** Data collected by the software ensures investments decisions are made on real asset condition and performance data.

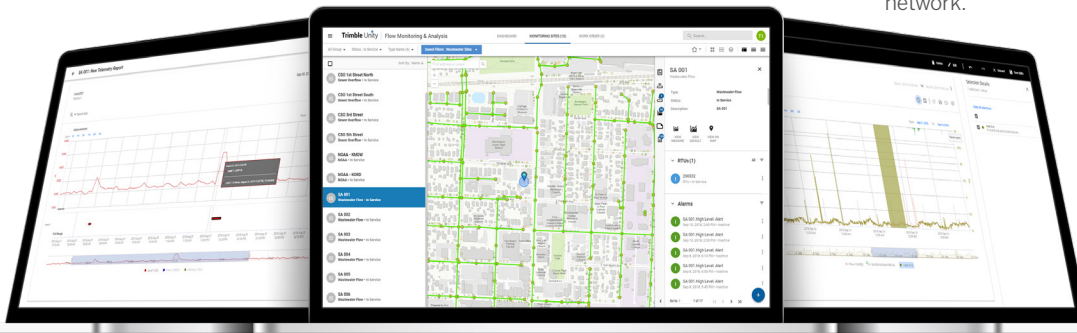
**Gain real-time situational awareness of wastewater operations and asset performance.** Combined with Trimble Telog's rugged, wireless, battery powered sensors and remote telemetry units (RTUs) the software empowers data analysts and engineers with the tools they need to make informed decisions when responding to system surcharges and overflows. Time-correlated data shows the consequences of rainfall on system flows, levels, pumps and water quality provide management with quality information tools for emergency preparedness planning and system expansions. Furthermore, treatment costs are reduced, by identifying system inflow and infiltration and reducing the volume of treated water.

**Streamline regulatory reporting.** With easy-to-use tools to collect, quickly edit and annotate telemetry data, the software ensures reliable data for reporting and regulatory compliance.

**Improve asset management and field operations.** The software leverages the full capabilities of the Trimble Unity software platform by offering GIS-centric field and office work management workflows to streamline field service operations, reduce event response times and gather authoritative field data to meet regulatory requirements.

## Features

- ▶ Analyze and identify flow anomalies that could result in infrastructure failure, flooding, environmental damage and regulatory penalties.
- ▶ Review, quickly edit and annotate telemetry data with easy-to-use tools, ensuring high data reliability for reporting, rapid decision making and regulatory compliance.
- ▶ Achieve full visibility into network and flow performance for fast and efficient review of alarming conditions and annotations.
- ▶ Leverage the advanced storm and wet weather analysis capabilities of Telog Enterprise software and its modules, including Rainfall-Derived Infiltration and Inflow (RDII) analysis, National Oceanic and Atmospheric Association (NOAA) data importing, computed and derived measurements and system health and regulatory reports.
- ▶ Identify events to be dispatched as work orders for investigation and resolution in the field through integration with Trimble Unity mobile application. This means field personnel responding to such events can access the flow and level data on their mobile device and make informed decisions on their actions in the field.
- ▶ Ensure data reliability via the systems health dashboard that provides operations staff real time insight into the availability and performance of the monitoring network.



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