

New Wastewater Management Monitoring System Deployed by Consta Flow, Inc.

October 15, 2026

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Consta Flow, Inc, an enterprise represented among lift station companies in Davenport, FL, has announced the deployment of an updated remote telemetry monitoring unit designed for municipal and commercial wastewater stations. The hardware and software package is scheduled for initial regional rollout during the final quarter of the year, providing utility personnel with automated telemetry across scattered collection points. This operational deployment addresses maintenance logistics associated with monitoring subterranean wet wells, pump motor activity, and variable wastewater flow patterns. Standardized digital tracking is intended to provide operations personnel with continuous data regarding mechanical cycle counts and station levels, reducing dependence on periodic manual inspections.

The newly deployed telemetry assembly connects directly to standard electrical control panels at lift station sites. Equipped with submersible hydrostatic level transmitters, redundant float switches, and digital motor run-time meters, the hardware logs operational parameters at standardized fifteen-minute intervals. Information recorded by the integrated sensors is transmitted through commercial cellular modems to a centralized administrative dashboard accessible via standard web browsers. When abnormal conditions occur, such as elevated fluid levels, incoming power interruptions, or motor thermal overloads, the hardware generates automated alert transmissions via text messaging and electronic mail to designated technicians.

In addition to monitoring wet well fluid levels and pump run cycles, Consta Flow, Inc conducts technical field operations in wastewater maintenance, potable water utility servicing, backflow prevention assemblies, and hydro-pneumatic tank inspections. By combining mechanical service operations with digital reporting instrumentation, the organization aims to assist utility managers in maintaining structured records of alternating motor performance. Automated data logging provides an organized chronological record of mechanical activity, which allows facility managers to evaluate routine maintenance intervals and plan component servicing prior to equipment breakdowns.

Wastewater collection networks require consistent operational oversight due to fluctuating inflow volumes during heavy precipitation events and shifts in regional usage demands. The telemetry architecture is

designed to notify maintenance staff when fluid levels exceed predetermined high-water thresholds or when alternating pumps experience prolonged runtime. By receiving operational notifications remotely, municipal utility technicians can evaluate whether an on-site service call is required before physical overflows happen. This operational protocol is intended to assist maintenance departments in organizing field dispatch resources while tracking general station operational metrics.

Technical architecture for the monitoring equipment incorporates secondary internal battery backup systems to sustain data transmission capabilities during temporary electrical disruptions. Technicians evaluate existing physical and electrical enclosures during installation to determine compatible sensor placement and verify adequate cellular reception within the panel enclosure. The monitoring package integrates with existing single-phase and three-phase pump control panels without requiring comprehensive reconstruction of the physical wet well or existing control cabinets. Standard dry contact outputs from existing motor starter circuits connect to the telemetry unit, enabling the recording of run durations, start counts, and voltage status.

Historical data compiled by the digital platform can be exported into standard spreadsheet and database formats for administrative evaluation and regional regulatory recordkeeping. Maintaining electronic archives of station run times and alarm activations assists utility managers in compiling standardized operational logs for municipal administrative review. Tracking runtime variance between primary and secondary pumps also allows service coordinators to identify mechanical abnormalities, such as impeller obstructions or check valve malfunctions, which frequently alter run durations before total mechanical failure takes place.

Implementation procedures for the monitoring package include physical hardware mounting, sensor calibration, cellular network verification, and the configuration of contact lists for automated alerts. System administrators can configure distinct notification protocols based on alarm priority levels, routing routine operational status reports to standard daytime maintenance personnel while directing urgent alarms to emergency on-call technicians. The browser interface displays current wet well levels, recent motor start frequencies, and cumulative operational hours, allowing technicians to review station conditions from centralized offices without manual wet well entry.

Routine maintenance schedules for wastewater systems frequently incorporate physical inspections, pump lubrication, and electrical control testing to maintain system functionality. The integration of continuous remote telemetry provides supplementary operational visibility between scheduled on-site maintenance visits. By documenting system performance metrics across varying weather conditions and flow rates, the technology enables utility managers to maintain comprehensive historical records of facility operations over extended operating periods.

Technical documentation, installation compatibility requirements, and hardware specifications for the remote monitoring package are available through standard administrative channels. Inquiries regarding panel retrofitting procedures, sensor compatibility, and baseline equipment parameters may be directed to technical representatives at the central office. The systematic tracking of wastewater collection infrastructure remains an active priority for municipal infrastructure planners alongside established lift station companies in Davenport, FL.

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