

Improving Remote Monitoring for Water Utilities



IoT Solutions for Water Infrastructure

The infrastructure that water and wastewater facilities have relied on to minimize flooding, contamination, and other adverse consequences is becoming exceedingly difficult to properly maintain. Budget constraints have impeded many water utilities ability to measure the environmental harm caused by excessive rainfall. Wired and wireless IoT sensors provide the key to monitoring water resourced within important pieces of infrastructure such as catch basins.

The Challenge | Monitoring Multiple Sites and Sensors

Until recently, cities could conduct 24-hour composite sampling at least twice a year to determine the environmental impact of excess water drainage at sites. Municipalities were also able to engage continuous pH and flow metering equipment. Today, with reductions in their budgets and a shrinking workforce, some water and wastewater utilities are finding it difficult to keep up with their required assessments of the environmental impact on water quality.

The Solution | The Digi Connect Sensor+ and DRM Application

Water districts and municipalities that want to continue to monitor water levels in catch basins have turned to IoT sensors to determine the amount of water percolating through to municipalities' water supply. The Digi Connect Sensor+ provides a network for water utilities to collect information about their city's water supply and transmit that data in real time. This has proved a vital solution to make sure that city water supplies are not contaminated by excess rainwater.

The Results | Seamless Connectivity to Sensor Data

Water utilities used to have to set up dozens of sampling sites near catch basins. Today, inexpensive sensors running through a Digi Connect Sensor+ LTE gateway can be installed in remote locations. Water utilities no longer need to rely on inspectors and manual reporting.

With IoT these solutions, they can access a map dashboard that displays sensor data and discharge parameters, and receive instant alerts and notifications when thresholds at catch basins are violated. City water utility staff can now easily monitor what is discharged into sewer systems in real-time. This data enables cities to quickly adjust plant operations to avoid under- and over-treatment, while also protecting their capital assets.

The Team | Device Provisioning, Activation and Installation Services

For over 17 years, RTO has provided IoT connectivity solutions to private businesses and their water utility clients in need of top-of-the-line LTE, PLTE, and 5G networking solutions. We provide top-tier support for all aspects of your mission-critical connectivity projects. Our technicians and installation teams assess your needs and engineer customized solutions — providing your organization with the hardware and software it needs to meet your clients' exacting requirements.

Industry Profile

- Water and Wastewater Utilities
- Remote Monitoring

Technology Solutions

- Digi Connect Sensor+
- Digi Remote Manager®

Targeted Results

- Real-Time Data
- Improved Water Quality
- Ruggedized Devices
- Low Power Consumption



CONTACT US TODAY TO GET YOUR CLIENTS' IOT DEVICES CONNECTED



www.realtimeops.com • 919-442-0038 • info@realtimeops.com