

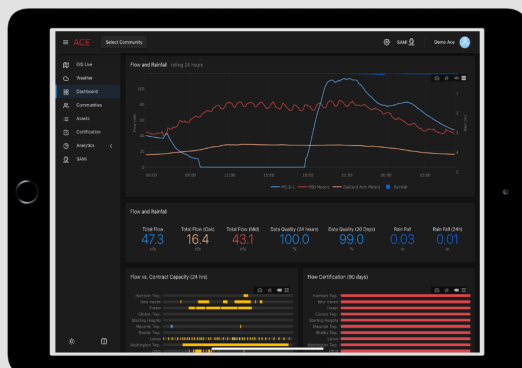


Smart Platform Required For A High-Performance Drainage District

Macomb County Public Works Office (MCPWO), MI manages annual sewage flow of 2000 Billion Cubic Feet from 11 communities through 68 miles of sewer pipes. It monitors voluminous flow through a sophisticated network of flow meters, rain gauges and data transmission infrastructure.

The accumulated real-time data required significant repetitive manual effort to detect meter faults, unearth anomalies, correct data and prepare it for billing purposes. MCPWO needed a better and more advanced platform that can use analytics, data modeling, efficient meter data certification, data quality assessments and meter and sewer maintenance identification.

Aquasight's ACE real-time artificial intelligence platform was deployed to consume live data, detect data quality in-stream, highlight anomalies, clean data, reference it with rain and adwf and prepare it for billing certification. A highly efficient and innovative data filling technology and workflow was developed to help with certifying meter data for community billing.



8.3M/yr	Data Points Processed
31	Flow Meters
16	Rain Guages
865,000	Residents Served

Benefits and Value

- Real-time meter data quality metrics
- Automated anomaly detection and cleaning
- Actual flows referenced with rain and ADWF
- Auto filling of missing data with analytics
- Efficient billing data certification workflow
- Notifications of max flume levels and anomalies
- Flow exceedence, m2m, pym dashboards
- Analytics & reporting by district and community

"We needed an intelligent technology that can mine our collection system data and help us to manage our operations efficiently and serve our communities. ACE puts a user friendly app in the hands of our employees and moves our district to the next generation in monitoring, auditing, billing data, reporting and infrastructure maintenance. This takes us in the direction of a Smart Utility"

VINCE ASTORINO
Flow & Operations Manager MCPWO