

## Increased Transparency and Visibility of Station Performance

Aquasight's ACE platform was deployed at BWSC in six months with minimal new sensor additions to shed light on pump station performance and ensure station preparedness. The platform provides easy access for BWSC for real-time monitoring and operations intelligence for the command center. BWSC employees to monitor stations at any time of the day.

Five of the primary stations, Union Park, Trilling Way, Port Norfolk, Summer St, and Austin St. were brought live into ACE. Pumping frequency, Wet well setpoint performance, wet weather performance, and pump efficiencies were tracked in real time. Tide and rain forecasts were integrated to better help Union Park personnel prepare for wet weather events.

ACE auto-generates weekly reports and built-in SAMI - an autonomous monitoring will alert for complex conditions such as drop in pump efficiency drops or when a station is not activated during forecasted rain event. These conditions are difficult for humans to track.



## Station Insights & Benefits (examples)

### Union Park Activation Tracked in Real-Time:

Influent channel rise during storm event, turbine and pump activations, pump efficiencies combined with tide and rain events tracked live

### Port Norfolk Wet Well Optimization:

Wet well level set points optimized for higher efficiencies and longer pump cycles

### Trilling Pump Health and Rehab Tracker:

Significant performance differences were observed between pumps. Impact of efficiency gains from pump maintenance can be tracked, enabling maintenance effectiveness audit

### Increased Resilience and Preparedness:

Helps with Boston's resiliency and preparedness for rising sea levels and future storm events

*"ACE will help us drive accountability and transparency and standardize through common KPIs. Such technologies will help with driving efficient operating conditions and empower decision making to our team. We can be better prepared for Storm and Tide events and retain BWSC knowledge in the digital platform."*

-Boston Water and Sewer Commission