

# Water Loss Management Software

Automated water loss analysis, leak detection and notification system

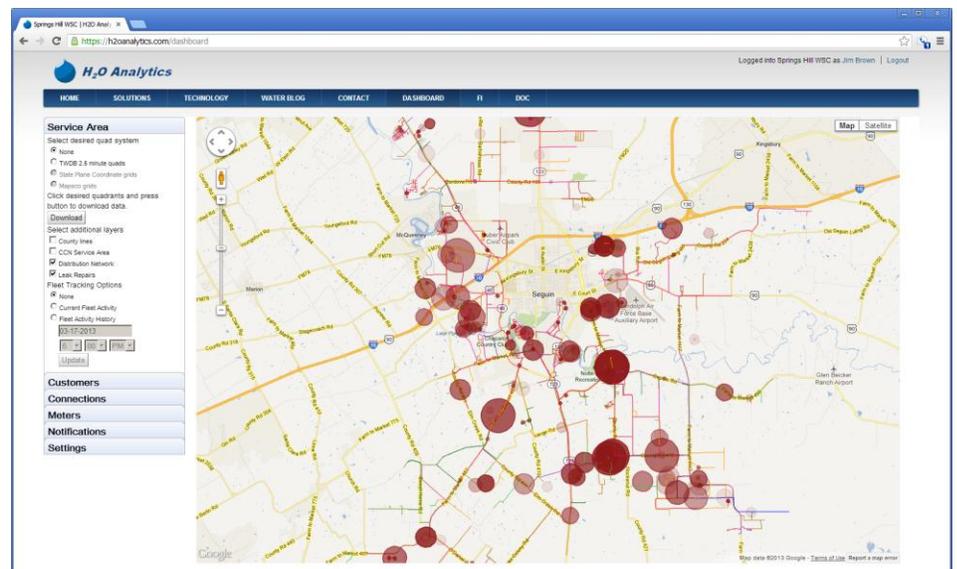
With drought, population growth and ageing distribution networks putting strains on our water infrastructure, utilities everywhere are striving to reduce water losses. As many areas approach historic drought levels, reducing water losses may make the difference between ‘having enough’ and having to invest in new sources and treatment facilities. A comprehensive, multi-layered approach to loss reduction includes effective measurement and tracking of losses along with automated leak detection and notification; H2O Analytics can help you streamline these efforts through enhanced analysis of your existing data resources.

## SERVICE OVERVIEW

- Integrates with your existing AMR, AMI and manual-read metering systems
- Processes main-meter readings from your SCADA system
- Correlates meter values by network zone to produce automated water loss analysis on a daily, weekly and monthly basis
- Visualize leak locations to help identify areas needing infrastructure investments
- Automated leak detection and notifications

**A comprehensive water loss reduction plan includes tools to measure losses, detect leaks and automate leak notifications**

## LEAK VISUALIZATION DASHBOARD



## DELIVERING WATER SAVINGS

AWWA best practices and Texas Water Development Board regulations call for annual water loss audits. This is a great start; but daily, weekly and monthly perspectives are possible by combining and analyzing the data that is available in the typical water utility’s existing computer systems. By monitoring water losses on a more frequent basis, utility management can quickly react to an ever-changing water loss profile. Traditional tools such as acoustic correlation devices can then be deployed in targeted areas to pinpoint exact leak locations.

The leak visualization dashboard helps utility management and other stakeholders easily see problem areas within the distribution network, helping make the case for necessary capital investments. And leak detection algorithms automatically spot anomalous readings which may be indicative of leaks within specific network zones or customer locations. Automated alerts using phone, text and emails ensure rapid response to leak events.

## PART OF A FAMILY OF CLOUD-BASED ANALYTIC SERVICES

- **Customer Notifications** – automated communication drives satisfaction, boosts cash flows and encourages conservation
- **Loss Reduction** – integrate SCADA, customer meter and GIS data to automate zone-level water loss analyses
- **Conservation Campaigns** – send personalized conservation emails; driven by analytics and business rules that you can tailor
- **Leak Detection** – monitor meter data flows to detect probable leaks and automate alerts

**Saving water is good for the community, and it's good for your bottom line**

### FOR MORE INFORMATION

Please contact H<sub>2</sub>O Analytics at:

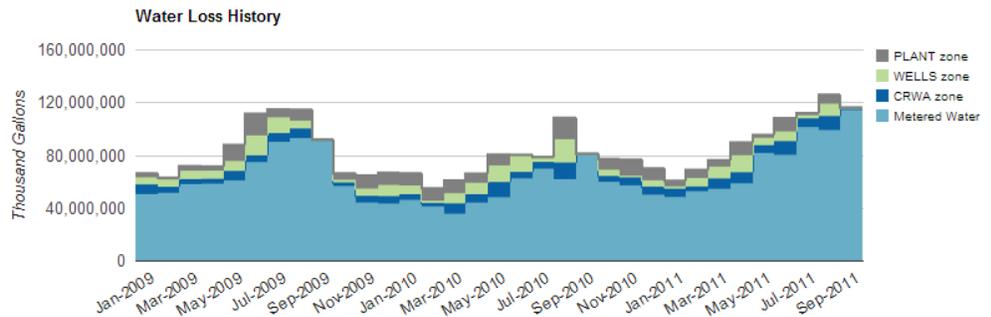
<http://www.h2oanalytics.com>

(512) 553-5185

[info@h2oanalytics.com](mailto:info@h2oanalytics.com)

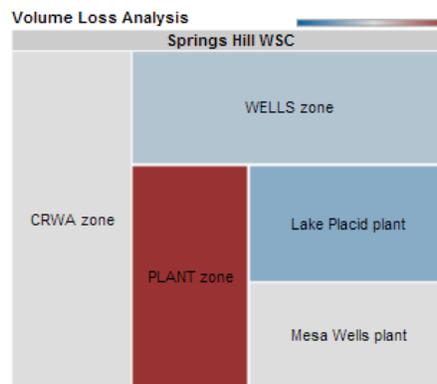
## AUTOMATE YOUR WATER LOSS ANALYSIS

Interfacing with your SCADA-based main meters, customer meters and GIS system, H<sub>2</sub>O Analytics automates zone-based loss audit analyses on the frequency of your meter data. AMI-based systems can see daily loss audit analyses and react immediately to new leaks. AMR and manual-read networks see updates on a weekly or monthly basis, depending on reading frequency.



## OUTLIER AND LEAK DETECTION ALGORITHMS

Analyzing your SCADA and customer meter data on a continual basis, H<sub>2</sub>O Analytics automatically detects statistical outliers and potential leak situations and sends alerts to your staff and your customers via email, text-message and voice-over-ip telephone calls. When used as part of a District Meter Area or zone-based network management approach, outlier detection on main meters can be a valuable tool for enabling faster management response to new leaks.



Leak detection on customer meters can quickly identify situations where there is a leak on the customer side of the meter or other water loss scenarios which might traditionally result in write-offs and customer disputes.

## A COMPREHENSIVE MANAGEMENT PLATFORM

H<sub>2</sub>O Analytics integrates with your existing systems, ties your existing databases together, augments your information with external data sources, applies analytics and provides browser-based management dashboards and automatic multi-protocol alerts to critical business events. This comprehensive system serves as your management control center for monitoring and controlling water losses.