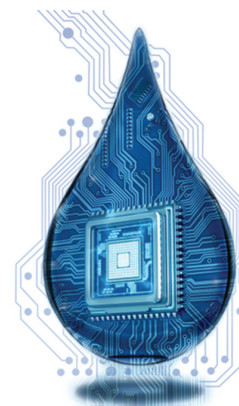# Data Quality Assurance Program

Transforming the Way We See Water

A comprehensive data quality assurance program to help maximize the ROI from online water quality analyzer investments.

Online water quality instruments that proactively manage disinfection by-products (DBPs) and trace metals (i.e., Arsenic, Chromium, Selenium, and more) provide waste and drinking water treatment systems, from the simplest to the most sophisticated, with the ability to determine whether they were under-treating or over-treating; giving them the ability to identify performance issues in a timely fashion.

Real-time data is used to rapidly identify changes in contaminant levels that then allows for immediate and cost-effective process changes to ensure regulatory and contract compliance. The high frequency of data is a powerful tool to provide predictive data on THM formation potential and trace metal contamination levels throughout treatment processes and in distribution systems .

The Value of Data Quality Assurance

Ensuring the quality of the data received from online analyzers becomes mission critical since it will drive plant uptime and the frequency of down-time. The quality of the data is dependent on an analyzer's accuracy, reliability and availability. A lack of data accuracy, reliability and availability and uncontrolled maintenance costs will significantly reduce the return on investment (ROI) from online analyzer investments and may lead to systems being out of regulatory compliance.

The Goals of Data Quality Assurance and the Importance of Functionality

GOAL	AMS FUNCTIONALITY
Maintain data accuracy and repeatability +/-5%	Remote monitoring of analytical results (including calibrations and validations)
	Reagent and standards quality control
Deliver data availability >99% • Maximize mean-time-to failure • Minimize mean-time-to-repair	Analyzer self-diagnostics and alarms
	Constant-improvement-program (hardware)
	Remote diagnostics of non-conformities
	Remote analyzer management
	Right-first-time on-site service
	Trained service personnel
	Telephone support
Minimize cost of data assurance • Minimize service visit frequency • Minimize visit cost (time and materials)	Remote diagnostics
	Remote analyzer management
	Trained personnel
	Remote support

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Data Quality Assurance Program Options

The data from AMS online analyzers fulfills mission critical functions of process control, risk management and contract compliance for its clients. With this in mind, AMS after-sales service support aims to maximize the uptime and minimize time to repair its analyzers. Along with the data quality assurance program, AMS delivers service levels unmatched in the industry.

DATA QUALITY ASSURANCE PROGRAM DETAILS	
Quarterly preventative maintenance	•
Custom reagents	•
On-board standards	•
1-year manufacturer's warranty	•
24/7 remote health monitoring	•
All software upgrades (fluidics, diagnostics)	•
On-going training	•
4-year extended warranty	•
Data analytical services	•
Quarterly performance reporting	•
Telephone support	•
Client service portal	•

AMS' quarterly preventative and performance summary reporting provides clients with a detailed 90-day and 12-month overview of instrument(s) status, inclusive of all analytical results.

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