“Quality Assurance / Quality Control for Compliance Testing”

As a water or wastewater professional you know how important it is to produce defensible data. To produce defensible data, we must be able to demonstrate that information is properly documented and equipment is calibrated, calibrations are verified, operators / analysts are trained properly, results are adequately documented, and more. This applies as much to field testing, operating flow meters and chemical feed pumps, and inline monitoring equipment as it does to your water quality analyses in the laboratory.

In this 7 hour IN-PERSON **“Quality Assurance / Quality Control (QA/QC) for Compliance Testing”** workshop we will discuss why the above mentioned steps are necessary and how you can use this information when you get audited by a regulator, troubleshoot the treatment process or a piece of equipment, respond to inquiries from the public, or defend your data in a court of law. A good and thorough QAQC program will create confidence in your performance, improve compliance, reduce your organization's liabilities.

During this workshop you will learn the essential terminology, processes, and principles of a QA/QC program. Together we will examine what it will take to create defensible QA/QC program and how you can implement it in your operation.

Furthermore, you will explore the 12 components of Quality Control as required by 40 CFR 136.7:

- Demonstration of Capability (DOC)
- Method Detection Limit (MDL)
- Method Blank (LRB or MB)
- Laboratory Control Sample (LCS or LFB)
- Matrix Spike (MS and/or MSD)
- Internal Standards (GC/MS)

- Calibration
- Control Charts
- Corrective Action
- QC Acceptance Criteria
- Batch definition
- QC Frequency

In this class we will discuss the value of QC charts, how to create them, and what information you can glean from them.

This **“Quality Assurance / Quality Control for Compliance Testing”** workshop will provide you with an essential understanding of the principles and processes of QA/QC applied in water and wastewater treatment and other programs required to meet public health and / or environmental regulations.