

## Speakers:

### Diane Lawver:

Quality Assurance Solutions is a quality systems consulting company established 1999 by Diane Lawver for both public and private environmental testing laboratories that wish to continuously improve their quality systems. Diane has extensive experience as a Laboratory Director and as a Quality Assurance Officer for large privately held environmental testing laboratories since 1989. Between 1985 and 1989, she worked for the City of Colorado Springs Water Quality Laboratory as a GC/MS Chemist. Ms. Lawver has been a member of WEF since 1989 and was selected for the Quality Assurance award in 1997 by the San Francisco Bay Section of CWEA. She has been an AWWA member since 1985 and is the Chair of the Water Quality Analysis Committee for the CA-NV section. In 2008, she was the recipient of the Crystal Crucible Award for promoting professional development amongst CWEA members. Ms. Lawver brings 25 years of environmental testing experience to this meeting.

### William (Bill) Ray:

Bill received his Bachelor's degree in Chemistry from UC Irvine, followed by a Master's in Chemistry from Cal Poly Pomona. Currently he serves as the State Board Quality Assurance Officer Manager. Many of Mr. Ray's daily duties include the development of the Board's Quality Management Plan, reviewing data quality issues, and assessing quality systems in the various State and Regional Board programs. Mr. Ray started his career at a full-service commercial laboratory located in Southern California where he was involved with everything from bacterial to ocean monitoring. Mr. Ray then went to work for the State at the Colorado River Regional Water Quality Control Board in their one-man laboratory. After some time he transferred to the Sanitation and Radiation Laboratory in Health Services eventually moving over to laboratory certification. Mr. Ray was also in ELAP for 5 years before transferring to his current position with the State Board of California.

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Association

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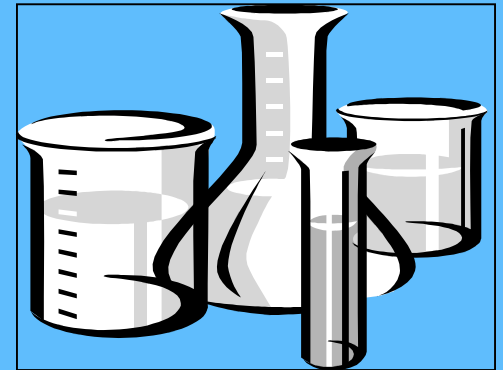
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## CWEA SPECIALTY ONE DAY WORKSHOP

### QA-QC for Wastewater Laboratories: Fundamentals and Guidance

#### Learning Objectives

- ◆ Explore Quality Assurance, Past, Present and Future
- ◆ Learn About Quality Assurance Foundation
- ◆ How to use QA in your Lab
- ◆ Understand Current QC Terminology and its Meaning



Tuesday,  
November 16, 2010  
Martinez, CA  
&  
Thursday,  
November 18, 2010  
Van Nuys, CA

Brought to you by CWEA,  
Its Laboratory Committee,  
and  
San Francisco Bay Section

## Workshop Information:

### Workshop Overview:

Quality Assurance is the definitive program for laboratory operation that specifies the measures required to produce defensible data of known precision and accuracy.

A brief overview will be given on current QA/QC practices and requirements.

You will gain a better understanding of the basics of any QA/QC system including QC terminology and its meaning when evaluating data and obtain guidance on how to handle failed data.

This workshop will address many areas to help you implement and improve on your laboratory's Quality Assurance Program.

### Who Should Attend:

- ◆ Lab Personnel
- ◆ Environmental Compliance Inspectors
- ◆ Operations Managers
- ◆ Operations Staff
- ◆ Anyone that reviews laboratory data

### Vocations this training applies to for Recertification Contact Hours:

- ◆ Environmental Compliance Inspectors
- ◆ Laboratory Analyst

**EARN UP TO 8.4 CONTACT HOURS**

### Conference Schedule:

|                 |   |
|-----------------|---|
| 8:00 - 8:30am   | Registration  |
| 8:30 - 9:30am   | QA/QC Systems Past - Where we were and how we got here  |
| 9:30 - 10:15am  | QA/QC Foundations - Underlying Basics of any QA/QC System   |
| 10:15 - 10:30am | Break   |
| 10:30 - Noon    | QA/QC Present - Where are we now? A brief overview of current practices and current requirements                        |
| Noon - 1:00pm   | Lunch is provided   |
| 1:00 - 2:15pm   | QA/QC Systems to Assure Traceability for Chemical, Biological, and Microbiological Testing                              |
| 2:15 - 3:15pm   | Using QA/QC - Subcontract Laboratory Report Review and Key Data Quality Indicators for Wastewater Compliance Monitoring |
| 3:15 - 3:30pm   | Break   |
| 3:30 - 4:30pm   | QA/QC Systems Taking Action With the QC Data  |
| 4:30 - 4:45pm   | QA/QC Systems in the Future - What Lies Next?   |
| 4:45 - 5:00pm   | Open Discussion   |

### Location Dates and Addresses:

Tuesday, November 16, 2010  
 Central Contra Costa Sanitation District  
 5019 Imhoff Place  
 Martinez, CA 94553



Thursday, November 18, 2010  
 D.C. Tillman Reclamation  
 6100 Woodley Ave.  
 Van Nuys, CA 91406



CWEA Specialty Conferences  
 7677 Oakport Street, Suite 600  
 Oakland, CA 94621  
 Phone: 510-382-7800 ext. 125 Fax: 510-382-7810  
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| Phone  | Fax Number |
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| <input type="checkbox"/> <b>Member</b> CWEA , WEF or CA-NV AWWA Mbr # _____<br>(Current membership required for member rates.) |            |
| <input type="checkbox"/> <b>Non-Member</b>   |            |

**Special Services:** Please check here if you require special accommodations to fully participate. Attach a written description of your needs.

|                      |                   |                    |
|----------------------|-------------------|--------------------|
|                      | <b>Tues 11/16</b> | <b>Thurs 11/18</b> |
| <b>Register for:</b> | <b>Martinez</b>   | <b>Van Nuys</b>    |

|                                    |                                |                                |
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Signature

If more than one person from your agency will attend, please photocopy and submit one form for each person.

Written cancellation notice is required, and must be received at least 15 days prior to the conference date. A 25% service fee shall be retained on all cancellations. No refunds shall be given for cancellations made less than 15 days prior to any conference.

All fees for conference registration shall be paid in full at the time of pre-registration or on-site registration. Full payment may be made by credit card, personal check or company/agency check. Purchase orders are acceptable and must be attached to the registration form. Registrations received by CWEA without full payment or purchase order will not be processed.

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