



FREE
California Drinking
Water Workshops



July-December 2010

Presented by:



Funded by:



ABOUT THE WORKSHOPS

The California Dept. of Public Health has revised and consolidated the Technical, Managerial and Financial (TMF) elements. The NEW 13 elements are:

Technical:

- Consolidation Feasibility
- System Description
- Certified Operators
- Operations Plan
- Source Capacity
- Training

Managerial:

- Ownership
- Water Rights
- Organization
- Emergency Response Plan
- Policies

Financial:

- Budget Projection/ Capital Improvement Plan
- Budget Control

The goal of these workshops is to provide information to help small, rural water systems deliver safe, reliable drinking water to their customers and to demonstrate how to properly manage a water system for long-term viability. Financial stability is the KEY TO SUCCESS for most water systems.

Contact Hours: Each classroom workshop and the CalTAP Small Water System Fair qualify for six (6) California Department of Public Health (CDPH) contact hours. Each online workshop qualifies for two (2) CDPH contact hours. Certificates of completion will be provided.

Attention California Registered Environmental Health Specialists (REHS): RCAC has been designated a continuing education accreditation agency for registered environmental health specialists by CDPH. Contact hours earned through attendance at drinking water, wastewater and solid waste training events conducted by RCAC staff will count toward completion of the continuing education requirement for REHSs.

Cost: There is no fee to attend these workshops. **Priority of attendance will be given to those from smaller water systems.** When space permits, on-site registration will be on a first come, first served basis with priority given to those who have registered in advance and smaller water systems. Class size for each workshop is noted in the workshop description. Handouts will be available for those who register two weeks in advance.

These workshops are presented by:

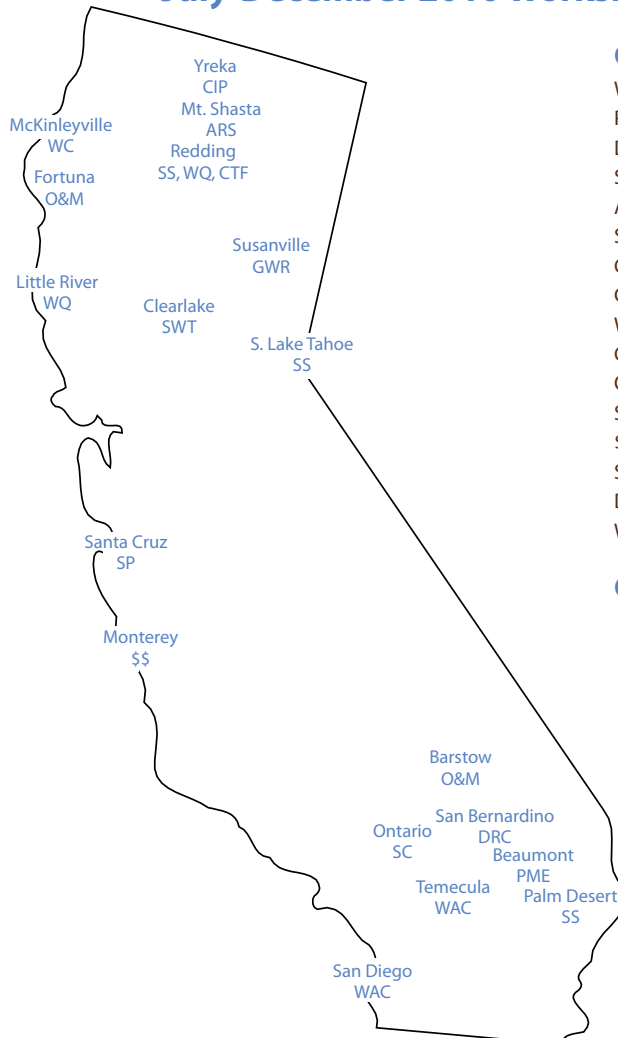


Funded by:



California Department of Public Health, Drinking Water Technical Support Unit

July-December 2010 Workshop Topics and Locations



CLASSROOM WORKSHOPS

- WQ = Monitoring & Water Quality
- PME = Pumps & Motors Efficiencies
- DBP = Disinfection By-Products Rule
- SS = Sanitary Surveys
- ARS = Arsenic Remediation
- SWT = Surface Water Treatment
- CTF = CalTAP Fair
- GWR = Groundwater Rule
- WC = Water Conservation
- CIP = Capital Improvement Plans
- O&M = Wells, Valves, Water Mains, Hydrants & Meters
- SC = SCADA
- \$\$ = Infrastructure Funding
- SP = Strategic Planning
- DRC = Distribution-Regulated Contaminants
- WAC = Water Audits, Leak Detection & Water Conservation

ONLINE WORKSHOPS

Board Basics Online:

- Water Supply Basic Operations
- Roles & Responsibilities
- The Safe Drinking Water Act
- Capital Improvement Plans
- Financial Management
- Rate Setting

Technical:

- Water Conservation
- Total Coliform Rule
- Water Audits & Leak Detection
- Pumps & Motors Efficiency
- Source Water Protection
- Disinfection By-Products Rule: Stage 2

Cal TAP Fair

September 23, 2010 ❖ Redding, CA

Join us at the CalTAP Fair! Come and learn about the California Technical Assistance Providers (CalTAP) programs that are supported by the California Department of Public Health. These programs provide onsite technical assistance and FREE workshops for water professionals throughout the state, as well as other resources. The CalTAP Fair qualifies for six contact hours.

September 23, 2010 • 8:30 a.m.-4 p.m.

(Lunch is one hour and on your own)

Red Lion Hotel Redding

1830 Hilltop Drive

Redding, CA 96002

(See page 7 for an additional training opportunity in Redding on September 22nd)

CalTAP Fair: Redding, CA • September 23, 2010

PROGRAM AT A GLANCE

8 a.m.	Registration opens			
8:30 a.m.	Welcome & Introductions			
	CalTAP Presentations			
10:15 a.m.	Break			
10:30 a.m.	OPERATIONS & MAINTENANCE TRACK	REGULATIONS TRACK	SAFETY & SECURITY TRACK*	TMF TUNE-UP TRACK
	Pumps & Motors	The Groundwater Rule	Developing a Vulnerability Assessment	Using the TMF Tune-Up Tool (computer lab)
Noon	Lunch (on your own)			
1 p.m.	Unidirectional Flushing	The Total Coliform Rule Emergency Response Plan	Developing an Tool (computer lab)	Using the TMF Tune-Up
2:20 p.m.	Break			
2:40 p.m.	GIS for Water Utilities	Sanitary Surveys	Working with CalWARN	Using the TMF Tune-Up Tool (computer lab)
4 p.m.	Adjourn			

Operation & Maintenance Track: The O&M track will cover the basics of pump and motor design, and horsepower calculation. Learn the importance of Unidirectional Flushing to help maintain water quality; and how to incorporate Geographic Information System (GIS) into your water utility.

Regulations Track: Regulations can be confusing! Attend these workshops to learn more on The Groundwater Rule, The Total Coliform Rule and how Sanitary Surveys can provide an additional layer of public health protection for your system. We will discuss monitoring requirements, compliance determination and public notification requirements as well as best operation and maintenance practices to ensure you continue to provide your customers with high quality drinking water.

Safety and Security Track:* Learn the basics of conducting a Vulnerability Assessment, developing an Emergency Response Plan, and networking with other communities using CalWARN. This track covers contamination hazards, crisis communication, general water system security, resources and funding for security projects.

TMF Tune-Up: The TMF Tune-Up is an online technical, managerial and financial (TMF) tool to help you assess your water system's strengths and weaknesses. It will provide you with an Individualized Development Plan that includes relative scores in each of the TMF categories, and a list of resources tailored to your water system's needs. *Survey responses will be used for statistical purposes only and will NOT be provided to your regulator.*

*This track is funded by a grant from the U.S. Department of Health and Human Services, a Rural Community Assistance Partnership (RCAP) network project.

The CalTAP providers are:

- California State University Sacramento, Office of Water Programs
- California Department of Public Health
- California Rural Water Association
- Cooperative Personnel Services, Expense Reimbursement Grant Program
- Rural Community Assistance Corporation (RCAC)
- University of California, Davis
- Self-Help Enterprises

Register now for the CalTAP Fair!

September 23, 2010
Red Lion Hotel
1830 Hilltop Drive
Redding, CA 96002

Visit the RCAC website for the latest information, additional training dates, locations and registration information for these FREE events!

www.rcac.org, under Trainings and Events

ONLINE BOARD BASICS

Online Board Basics Schedule

Small Water System
Water Supply
Basic Operations
July 6, 2010

Board Roles & Legal
Responsibilities
July 7, 2010

Safe Drinking
Water Act
Aug. 10, 2010

Capital Improvement
Plans & Asset
Management
Sept. 7, 2010

Financial
Management for
Small Water Utilities
Oct. 5, 2010

Rate Setting for
Small Water Utilities
Nov. 2, 2010

All online workshops
are offered twice:
11 a.m.-1 p.m.
and 4-6 p.m.
Each session qualifies
for two contact hours
and is limited to
20 participants.

Small Water System Basic Operations

Many board members are unaware of the basic technical aspects of a water system. This module introduces, in layman's terms, the basic operations of water treatment and supply. It includes a step-by-step description of a basic water treatment plant and covers the function and necessity of each component, plus the advantages and disadvantages of groundwater and surface water as the main water sources for systems.

July 6, 2010 @ 11 a.m. July 6, 2010 @ 4 p.m.

Board Roles and Legal Responsibilities

There are many legal, fiscal and environmental compliance responsibilities attached to serving on a water authority board. Many board members are unaware of the scope and breadth of these responsibilities. Learn why a public drinking water supply system must operate as a viable business; the importance of financial, technical and managerial capacity to operate a water system; key legal responsibilities; and practices to help water boards stay informed with the operation of their water system.

July 7, 2010 @ 11 a.m. July 7, 2010 @ 4 p.m.

The Safe Drinking Water Act

This training attempts to simplify the Safe Drinking Water Act (SDWA), highlight the main points and requirements, and introduces management practices designed to meet the SDWA requirements. Areas of focus include: the responsibility of public water systems under the SDWA; the contaminant groupings your utility must test for and what an MCL is; record keeping and Consumer Confidence Reports (CCR) requirements; public notification requirements and the difference between Tier 1, 2 and 3 Violations. This workshop also covers the impact of a water system's financial, managerial and technical capacity on current and future compliance.

Aug. 10, 2010 @ 11 a.m. Aug. 10, 2010 @ 4 p.m.

Capital Improvement Plans and Asset Management

This module presents the concept of Capital Improvement Plans (CIP) as an integral part of the budget. This workshop will assist board members in realizing the importance of annual budgeting for the long-term funding of replacement of large ticket items for their water system.

Sept. 7, 2010 @ 11 a.m. Sept. 7, 2010 @ 4 p.m.

Financial Management for Small Water Utilities

Are you interested in unlocking the mysteries of your water system's financial statements? Do you want to improve your water system's financial health? This workshop is designed to improve your knowledge of the basic financial statements to be reviewed at each board meeting; the purpose of these statements and their interrelation to your budget; and how to use financial statements to assure the continued financial viability of your water system to provide safe, reliable drinking water to your customers. We will also be discussing the tools that can improve your financial health, such as budgeting, reserves and customer policies.

Oct. 5, 2010 @ 11 a.m. Oct. 5, 2010 @ 4 p.m.

Rate Setting for Small Water Utilities

This module provides water authority board members with the basics of rate design. It details the various types of water rates and their advantages and disadvantages. Additionally, it provides information on techniques that board members can use to help build customer support for rate increases.

Nov. 2, 2010 @ 11 a.m. Nov. 2, 2010 @ 4 p.m.

Online Workshops

RCAC's online trainings are instructor-led, interactive, internet-based workshops designed to provide quality training without the participant having to travel. *Each session is two hours and qualifies for two contact hours.*

RCAC uses the Elluminate training platform and you will need to download the Elluminate software before you can get started in an online session for the first time. Once you register for an online workshop, RCAC will send you specific instructions on downloading the FREE Elluminate software so that you can participate in the online training. Once the software is loaded on your computer, you will not have to repeat this process for further RCAC online trainings using the same computer. You should ensure that your computer is able to support the needs of the collaboration environment. Your computer should meet or exceed the following minimum requirements:

Minimum System Requirements

Windows

- Windows 98/ME/2000/XP
- Pentium III 500 MHZ processor
- 128 MB RAM (98/ME); 256 MB RAM (2000/XP)
- 20 MB free disk space
- Soundcard with speakers and microphone or headset
- 28.8 kbps Internet connection

Macintosh

- Mac OS 9.2, Mac OS X 10.2.8, 10.3.9, and 10.4
- G3, G4, G5, or Intel processor
- 128 MB RAM (OS 9.x); 256 MB RAM (OS X)
- 20 MB free disk space
- Microphone (internal, USB, or iSight)
- 28.8 kbps Internet connection

Audio recommendations

For a better audio signal, we recommend using an external microphone and headset or speakers. Common PC microphones do not work in a Mac microphone jack, so Mac users should use USB microphones.

Water Conservation

As competition for existing water resources increases, utilities are focusing more and more on water conservation as a long term supply option. Water losses in a distribution systems result in increased energy and operational costs, and lost revenues. Learn about the benefits of water conservation, and how to develop a workable water conservation plan for your small water system.

Aug. 11, 2010 @ 11 a.m. **Aug. 11, 2010 @ 4 p.m.**

Total Coliform Rule and Compliance

Preventing waterborne diseases is one of the primary objectives of any drinking water system, and one of the most important ways to monitor for biological contamination is to regularly sample for coliform bacteria. This workshop will cover the basic requirements of the Total Coliform Rule, including sampling, compliance determination, and public notification, as well as potential revisions to the Rule that are currently under discussion.

Sept. 8, 2010 @ 11 a.m. **Sept. 8, 2010 @ 4 p.m.**

Water Audits and Leak Detection

Your aging distribution system seems to be losing more water every year! How will you track down those leaks? Underground leaks don't just cost your system money from repairs and lost revenue, they can be a major cause of contamination from back-siphonage, especially in older and poorly-designed systems. This workshop will describe how and where leaks happen, the technology that's available for locating them, and the step-by-step methodology of locating underground leaks BEFORE the first hole is dug. We'll cover how leak detection equipment works, how to "zero in" on leaks from above ground, what to look for when buying leak detection equipment, interpreting sound level readings, and how the sound of a water leak travels underground.

Oct. 6, 2010 @ 11 a.m. **Oct. 6, 2010 @ 4 p.m.**

Pumps and Motors Efficiency

Did you know that the higher cost of a premium efficiency motor is usually paid back within the first year or two – and can save thousands of dollars in power costs over its lifetime? This workshop explains how to choose the highest efficiency pumps and motors for your water pumping applications. Topics will include:

- What to look for in premium efficiency motors and how to calculate energy savings
- The vital information contained on a motor's nameplate – and why it's important
- Six factors that cause friction losses and how to minimize them
- How to read and interpret a pump curve
- How BEPs (Best Efficiency Points) vary from one pump manufacturer to another

Nov. 3, 2010 @ 11 a.m. **Nov. 3, 2010 @ 4 p.m.**



Photo by Jake Salcone, RCAC

Source Water Protection


Did you know that the costs of cleaning up a contaminated drinking water source can be a hundred times the costs of protecting the source in the first place? A common source of water contamination in rural communities is septic tanks and wastewater collection systems. This workshop will provide an overview of source water protection planning, including ways to encourage the cooperation and support of local decision makers in developing source water protection strategies and implementing source water protection plans.

Dec. 7, 2010 @ 11 a.m. **Dec. 7, 2010 @ 4 p.m.**

Disinfection By-Products Rule: Stage 2

This workshop will cover the most common drinking water disinfectants used by public drinking water systems. We will also cover the potential for each of these disinfectants to create disinfection by-products (DBP), which are created by several disinfectants if a precursor exists in your drinking water source. By learning about the different types of disinfectants, the types of precursors to be aware of, and the DBP Rule: Stage 2, you will be able to make an informed decision regarding the best disinfectant to use for your public water system.

Dec. 8, 2010 @ 11 a.m. **Dec. 8, 2010 @ 4 p.m.**

 = Water and/or energy efficiency improvements or other environmentally innovative workshops as defined and funded by the American Resource and Recovery Act.

Online Technical Topics Schedule

Water Conservation
Aug. 11, 2010

Total Coliform Rule & Compliance
Sept. 8, 2010

Water Audits & Leak Detection
Oct. 6, 2010

Pumps & Motors Efficiency
Nov. 3, 2010

Source Water Protection
Dec. 7, 2010

Disinfection By-Products Rule: Stage 2
Dec. 8, 2010

All online workshops are offered twice:
11 a.m.-1 p.m.
and 4-6 p.m.

Each session qualifies for two contact hours and is limited to 20 participants.

CLASSROOM WORKSHOPS

All classroom workshops are from 8:30 a.m. -3:30 p.m. and qualify for six contact hours.

Lunch is on your own.

Certificates of completion will be provided.

There is NO FEE to attend any of these workshops. **Priority of attendance will be given to those from smaller water systems.**

Class size limitation is noted in the workshop listing.

Water System Inspections and Sanitary Surveys

Water delivered to your customers can pick up contamination from many different sources including poorly constructed and maintained wells, broken tank screens and inadequate disinfection. Identifying and correcting sanitary survey deficiencies provide an additional layer of public health protection. In addition, the new Groundwater Rule includes new regulatory emphasis on sanitary surveys. This workshop will provide you with hands-on tools and templates that will allow you to conduct a sanitary survey of your water system.

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

July 14, 2010

Limited to 40 participants

Oxford Suites Redding
1967 Hilltop Drive
Redding, CA 96002

August 26, 2010

Limited to 60 participants

Embassy Suites Lake Tahoe
4130 Lake Tahoe Blvd.
South Lake Tahoe, CA 96150

October 13, 2010

Limited to 40 participants

Marriott Residence Inn Palm Desert
38305 Cook Street
Palm Desert, CA 92211

Take the TMF TUNE-UP for California Drinking Water Systems

Access the TMF Tune-Up at <http://neien.des.ucdavis.edu/tmf/>

Is your water system operating at its peak efficiency?

Do you have a capital improvement plan?

Is your system financially viable?

Or could you use a TMF Tune-Up?

The TMF Tune-up is an online technical, managerial and financial (TMF) tool to help you assess your water system's strengths and weaknesses. It will provide you with an Individualized Development Plan that includes relative scores in each of the TMF categories, and a list of resources tailored to your water system's needs.

Survey responses will be used for statistical purposes only and will NOT be provided to your regulator.

Capital Improvement Plans and Strategic Financial Planning

As a drinking water system owner or operator, your most important job is delivering safe, reliable drinking water to your customers. Part of this process is maintaining your system's facilities and equipment and planning for rehabilitation and replacements. An asset management plan will help you meet these goals in an efficient and cost-effective manner. Do you have the financial resources to meet the current needs of your utility?

Learn how to implement and monitor the chosen strategies to achieve your stated objectives. Have you thought about what your system's condition might be in 10 years? If you are unsure of the answers to these questions, this workshop is for you! You will learn:

- How to conduct a thorough asset inventory
- How to prioritize replacements
- Tools to create and implement an asset management plan
- Developing a capital improvement budget
- Funding options

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

July 15, 2010

Limited to 50 participants

Holiday Inn Express Yreka
707 Montague Road
Yreka, CA 96097

Surface Water Treatment Compliance

It has been raining for three days and your effluent turbidity has just spiked at your water treatment plant. What monitoring and reporting procedures do you follow? What do those new regulations say? Is your treatment method still acceptable? What do you need to report and when? Many treatment operators have questions about new regulations and changing requirements. CDPH updates surface water treatment regulations periodically to deal with threats to safe drinking water. Understanding the changing regulations is a significant challenge for water treatment operators. This workshop will help you understand:

- The treatment and monitoring required under the surface water treatment regulations by reviewing the basis for current and future regulations
- Long-Term 1 and Long-Term 2 Enhanced Surface Water Treatment Rules
- Existing and future water quality monitoring and reporting requirements
- Basic treatment methods and technologies

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

July 28, 2010

Limited to 50 participants

Best Western El Grande Inn
15135 Lakeshore Drive
Clearlake, CA 95422



Monitoring and Water Quality

If there is an outbreak of e-coli within your community, how sure are you that the drinking water generated by your public water system is not responsible? There is only one way to be sure, and that is by adhering to state and

federal drinking water regulations. Among other things, we will review:

- The Safe Drinking Water Act and its history
- Water quality indicators
- The Total Coliform Rule
- Current and future water monitoring requirements

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

July 29, 2010

Limited to 50 participants

Little River Inn

7901 N. Highway One

Little River, CA 95456

September 22, 2010

Limited to 60 participants

Red Lion Inn

1830 Hilltop Drive

Redding, CA 96002



Arsenic Remediation

Two water systems with similar levels of arsenic in their source water often need two entirely differently types of treatment technology. Why? Because the ability of a specific type of treatment technology to remove arsenic depends on water chemistry. Learn more about what type of treatment is right for your water system, and find out if you can achieve Safe Drinking Water Act compliance for arsenic in drinking water without installing treatment. This workshop will give you the tools to determine the right path to compliance for your system.

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

August 3, 2010

Limited to 50 participants

Mt. Shasta Resort

1000 Siskiyou Lake Blvd.

Mt. Shasta, CA 96067

Class sizes are limited. If you are registered, but cannot attend, please contact Mark Wiseman at mwiseman@rcac.org. There may be a waiting list of others who wish to attend.

Stakeholders Are Invited to Join Your Local Integrated Regional Water Management Program

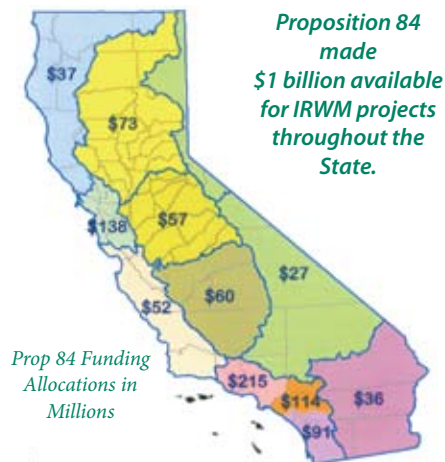
Integrated Regional Water Management (IRWM) is a relatively new initiative in California aimed at developing long-term water supply reliability, improving water quality and protecting natural resources.

The State Department of Water Resources (DWR) administers an IRWM Grant Program (www.water.ca.gov/irwm) which encourages integrated water management through competitive grant funding.

DWR has released draft guidelines for the Proposition 84 grant cycle that will provide millions for Southern California water resources over the next few years. Round 1 is expected to open this summer (2010). Round 2 may occur in 2011, with Round 3 to follow in 2013.

Local IRWM programs are currently soliciting water management projects for inclusion within Proposition 84 grant applications. Please use DWR's regional contacts maps to identify your local IRWM program manager:

http://www.water.ca.gov/irwm/implementation/prop84/integregio_fundingarea.cfm



CLASSROOM WORKSHOPS

Class sizes are limited. If you are registered, but cannot attend, please contact Mark Wiseman at mwiseman@rcac.org. There may be a waiting list of others who wish to attend.

The Groundwater Rule and Disinfection By-Products

If your system uses groundwater as a source of supply, you need to know the requirements of EPA's Groundwater Rule. The Groundwater Rule, which is now in effect, imposes significant new regulations on operators of groundwater systems. In some systems, the rule mandates installation of source water treatment or upgrading of existing treatment. All groundwater systems are subject to increased water quality monitoring. This workshop covers the basic provisions of the rule including:

- Source water assessment
- Treatment requirements
- New water quality monitoring rules

All operators, supervisors, managers and board members of groundwater systems should attend this workshop.

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

August 5, 2010

Limited to 45 participants

**Diamond Mountain Casino Hotel
900 Skyline Road
Susanville, CA 96130**

CalTAP Fair: Special Training Event

(See page 3 for more detailed information)

Workshop tracks include:

- Operation & Maintenance
- Regulations
- Safety & Security
- TMF Tune-Up

September 23, 2010 • 8:30 a.m.-4 p.m.

**Red Lion Hotel Redding
1830 Hilltop Drive
Redding, CA 96002**

Attention Wastewater Operators!

Did you know that RCAC offers free wastewater workshops throughout California and online? These free workshops are funded by the State Water Resources Control Board.

Visit our website for the latest workshop listing:
www.rcac.org, under Trainings and Events



Photo by Randy Vessels

Operation and Maintenance: Wells, Valves, Water Mains, Hydrants and Meters

The basic distribution system. A groundwater well, a chlorine tank and pump, water mains, valves, hydrants and water services and meters. Seems simple enough, but installing, maintaining and replacing worn components can be challenging for the small water system operator. This workshop will introduce the small system operator to the basics of groundwater well installation and maintenance, as well as the installation and maintenance of the chlorination system, water mains, valves, hydrants, and water services and meters.

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

September 29, 2010

Limited to 50 participants
**Hampton Inn & Suites
2710 Lenwood Road
Barstow, CA 92311**

October 20, 2010

Limited to 50 participants
**River Lodge
Conference Center
1800 Riverwalk Drive
Fortuna, CA 95540**



SCADA-Energy Savings Opportunities and Storage Tank Operation & Maintenance

Supervisory Control and Data Acquisition (SCADA) communication installations save operators and utilities time and money. Get an overview of SCADA fundamentals and learn how SCADA can be utilized to optimize energy efficiency throughout your system. Learn basic SCADA terminology, definitions, components, security and troubleshooting. This workshop will also cover storage tank inspection, operation and maintenance, and security.

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

September 30, 2010

Limited to 40 participants

**Holiday Inn Ontario Airport
2155 E. Convention Center Way
Ontario, CA 91764**



Photo by Randy Vessels

Infrastructure Funding From A to Z

Most of California's small water systems, infrastructure was installed in the early 1960s, and many with post World War II material. Failing infrastructure costs your system money from repairs and lost revenue, and it can also be a major cause of contamination especially in older or poorly-designed systems. Learn what your system should consider prior to requesting funds, and what the common issues are during the application process. This workshop will describe funding resources (looking outside the box), how to leverage funds from multiple sources, along with case studies. And, most importantly, if you need help, who do you call?

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

October 5, 2010

Limited to 40 participants

**Casa Munras
700 Munras Ave.
Monterey, CA 93940**

Strategic Planning and Policies

Do you know where your organization will be one year, three years, or five years from now? If you are planning for the ongoing success of your organization, learn why strategic planning is important, how you are going to maintain your organization's success, and ways to establish realistic goals and objectives consistent with your mission and vision. Additionally, you will learn about ways to communicate the strategic plan to your staff so they can develop a sense of ownership; and ensure that you are using your organization's resources by focusing your efforts on key priorities.

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

October 7, 2010

Limited to 40 participants

**University Inn & Conference Center
611 Ocean Street
Santa Cruz, CA 95060**

Distribution-Regulated Contaminants

Disinfectants and Disinfection By-Products Rule, Lead and Copper Rule, Groundwater Rule, Total Coliform Rule—State and federal drinking water regulations regarding the distribution system can be confusing! Attend this workshop to clarify monitoring requirements for distribution-regulated contaminants such as coliform bacteria, disinfection by-products, and lead and copper, plus a few others that are system specific. We will discuss contaminants of concern, monitoring requirements, compliance determination and public notification requirements, as well as best operation and maintenance practices to ensure you continue to provide your customers with high quality drinking water.

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

October 14, 2010

Limited to 45 participants

**Days Inn San Bernardino—University Parkway
2000 Ostrem's Way
San Bernardino, CA 92407**

Not Sure About Online Trainings?

Try them off-line first! RCAC records all of our online trainings, and posts them on our website. You can view the recorded online training at any time to see what it's all about and if they might work for you!

Or if you missed part of a session, or want to review the session, it's just a click away.

Find them on our website at:

www.rcac.org,

under Resources/Online Session Materials

or

<http://www.rcac.org/doc.aspx?472>

All classroom workshops are from 8:30 a.m. -3:30 p.m. and qualify for six contact hours.

Lunch is on your own.

Certificates of completion will be provided.

There is NO FEE to attend any of these workshops. **Priority of attendance will be given to those from smaller water systems.**

Class size limitation is noted in the workshop listing.

CLASSROOM WORKSHOPS

All classroom workshops are from 8:30 a.m. -3:30 p.m. and qualify for six contact hours.

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Class size limitation is noted in the workshop listing.

Water Conservation, Water Audits and Leak Detection

Effective water conservation requires a coordinated effort between the water system and the water users. Unfortunately, influencing your customers to change water use habits can be very challenging for a utility. Learn methods for controlling water losses in your system, as well as methods for promoting wise water use among your customers. Learn how to find existing leaks to control water losses. The amount of water lost to distribution system leaks in California each year would flood all of Sacramento County under one foot of water – 228 billion gallons. It's estimated that an average of 10 percent of all water produced in California is lost to leaks. Can you afford to do business with 10 percent or more of your product (your revenue) disappearing into the ground? This workshop will help you understand how and where your water disappears before reaching your customers and the steps you should be taking now to minimize it.

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

October 21, 2010
Limited to 50 participants
Holiday Inn Express
 Arcata/Eureka Airport
 3107 Concorde Drive
 McKinleyville, CA 95519

December 1, 2010
Limited to 45 participants
Temecula Creek Inn
 44501 Rainbow Canyon Rd.
 Temecula, CA 92592

December 2, 2010
Limited to 45 participants
The Dana on Mission Bay
 1710 West Mission Bay Drive
 San Diego, CA 92109


Pumps and Motors Efficiency, and Well Technologies

Did you know that pumping water is one of the most inefficient uses of energy there is? Most water pumping systems only convert 50 to 75 percent of the power they consume (and pay for) into useful work, one of the lowest margins of efficiency of all commercial and industrial uses. Why? The laws of physics mostly, but also simple mistakes made in selecting a pump for a given duty point. This workshop will help you understand and minimize inefficiency in your pumping systems and how to choose the right pump for the job – one that will save money year after year. Topics will include:

- Making sense of a pump manufacturer's performance curve
- The importance of Net Positive Suction Head (NPSH) and its effect on pump performance
- How to calculate energy savings from increased pumping efficiency
- The latest incentive programs and rebates that your electric utility might be offering

Registration/Check-in: 8 a.m.; Workshop: 8:30 a.m.-3:30 p.m.; Lunch is one hour (on your own)

October 27, 2010
Limited to 45 participants
Holiday Inn Express Beaumont
 1864 Oak Valley Village Circle
 Beaumont, CA 92223

 = Water and/or energy efficiency improvements or other environmentally innovative workshops as defined and funded by the American Resource and Recovery Act.



Small Water System Operator Expense Reimbursement Grant and Scholarship Program



ELIGIBILITY:

- Eligible operators must be employed by a small water system that serves a population of 3,300 or less.
- The system must serve a community or non-transient/non-community population.

BENEFITS:

- Operators have increased training opportunities
- Operators can obtain reimbursement for certification costs
- Operators can attend training courses with little or no out-of-pocket costs
- Systems save on training dollars
- Operators are more qualified

866/867-3594 • smallwatersystem@cps.ca.gov
www.cps.ca.gov/tlc/sws

JULY-DECEMBER 2010 REGISTRATION FORM

There is no fee to attend these workshops. Please register in advance as space may be limited in some locations. When space is limited, priority will be given to smaller water systems. When space permits, you may register onsite on a first come, first served basis, with priority given to those who have registered in advance and smaller water systems. Class size for each workshop is noted in the workshop location information. Lunch is on your own. Please complete one form for each person who will attend. You can also register online at www.rcac.org under Trainings and Events/California Drinking Water Trainings. *Handouts will be available for anyone who registers at least two weeks in advance.*

Name: _____ Operator Certification # : _____ ERG #: _____

Agency/Water System: _____ System ID #: _____ Number of service connections: _____

Type of Water System: Community Noncommunity Non-community/Non-transient N/A

Mailing address: _____ System serves a population less than 10,000: Yes No N/A

City: _____ County: _____ State: _____ Zip: _____

Phone: (_____) _____ Fax: (_____) _____ E-mail: _____

Special needs: If you have special needs addressed by the Americans with Disabilities Act, please notify RCAC at 916/447-9832 ext. 1009 at least three weeks prior to the workshop(s) you are attending, so that we may make accommodations for you.

Please register me for the following workshop(s):

Online Workshops are internet-based, two-hour workshops offered two times per day: 11 a.m.-1 p.m. and 4-6 p.m.

- | | |
|--|--|
| <input type="checkbox"/> 7/6/10 11 a.m. Board Basics: Water Supply Basic Operations | <input type="checkbox"/> 10/5/10 11 a.m. Board Basics: Financial Management |
| <input type="checkbox"/> 7/6/10 4 p.m. Board Basics: Water Supply Basic Operations | <input type="checkbox"/> 10/5/10 4 p.m. Board Basics: Financial Management |
| <input type="checkbox"/> 7/7/10 11 a.m. Board Basics: Roles & Responsibilities | <input type="checkbox"/> 10/6/10 11 a.m. Water Audits & Leak Detection |
| <input type="checkbox"/> 7/7/10 4 p.m. Board Basics: Roles & Responsibilities | <input type="checkbox"/> 10/6/10 4 p.m. Water Audits & Leak Detection |
| <input type="checkbox"/> 8/10/10 11 a.m. Board Basics: Safe Drinking Water Act | <input type="checkbox"/> 11/2/10 11 a.m. Board Basics: Rate Setting |
| <input type="checkbox"/> 8/10/10 4 p.m. Board Basics: Safe Drinking Water Act | <input type="checkbox"/> 11/2/10 4 p.m. Board Basics: Rate Setting |
| <input type="checkbox"/> 8/11/10 11 a.m. Water Conservation | <input type="checkbox"/> 11/3/10 11 a.m. Pumps & Motors Efficiency |
| <input type="checkbox"/> 8/11/10 4 p.m. Water Conservation | <input type="checkbox"/> 11/3/10 4 p.m. Pumps & Motors Efficiency |
| <input type="checkbox"/> 9/7/10 11 a.m. Board Basics: Capital Improvement Plans | <input type="checkbox"/> 12/7/10 11 a.m. Source Water Protection |
| <input type="checkbox"/> 9/7/10 4 p.m. Board Basics: Capital Improvement Plans | <input type="checkbox"/> 12/7/10 4 p.m. Source Water Protection |
| <input type="checkbox"/> 9/8/10 11 a.m. Total Coliform Rule & Compliance | <input type="checkbox"/> 12/8/10 11 a.m. Disinfection By-Products Rule |
| <input type="checkbox"/> 9/8/10 4 p.m. Total Coliform Rule & Compliance | <input type="checkbox"/> 12/8/10 4 p.m. Disinfection By-Products Rule |

Classroom Workshops: check in begins at 8 a.m.; all workshops are from 8:30 a.m.-3:30 p.m. ; The CalTAP Fair ends at 4 p.m.

- | | |
|--|---|
| <input type="checkbox"/> 7/14/10 Water System Inspections & Sanitary Surveys: Redding | <input type="checkbox"/> 10/5/10 Infrastructure Funding from A to Z: Monterey |
| <input type="checkbox"/> 7/15/10 CIP & Strategic Financial Planning: Yreka | <input type="checkbox"/> 10/7/10 Strategic Planning & Policies: Santa Cruz |
| <input type="checkbox"/> 7/28/10 Surface Water Treatment: Clearlake | <input type="checkbox"/> 10/13/10 Water System Inspections & Sanitary Surveys: Palm Desert |
| <input type="checkbox"/> 7/29/10 Water Quality & Monitoring: Little River | <input type="checkbox"/> 10/14/10 Distribution-Regulated Contaminants: San Bernardino |
| <input type="checkbox"/> 8/3/10 Arsenic Remediation: Mt. Shasta | <input type="checkbox"/> 10/20/10 O&M: Wells, Valves, Water Main, Hydrants & Meters: Fortuna |
| <input type="checkbox"/> 8/5/10 Groundwater Rule & Disinfection By-Products Rule: Susanville | <input type="checkbox"/> 10/21/10 Water Conservation, Water Audits & Leak Detection: McKinleyville |
| <input type="checkbox"/> 8/26/10 Water System Inspection & Sanitary Surveys: South Lake Tahoe | <input type="checkbox"/> 10/27/10 Pumps & Motors Efficiencies & Well Technologies: Beaumont |
| <input type="checkbox"/> 9/22/10 Monitoring & Water Quality: Redding | <input type="checkbox"/> 12/1/10 Water Audits, Leak Detection & Water Conservation: Temecula |
| <input type="checkbox"/> 9/23/10 SPECIAL EVENT: CalTAP Fair for Small Water Systems: Redding | <input type="checkbox"/> 12/2/10 Water Audits, Leak Detection & Water Conservation: San Diego |
| <input type="checkbox"/> 9/29/10 O&M: Wells, Valves, Water Main, Hydrants & Meters: Barstow | |
| <input type="checkbox"/> 9/30/10 SCADA-Energy Savings Opportunities & Storage Tank Operation & Maintenance: Ontario | |


Please mail or fax your registration to:

RCAC Attn: Mark Wiseman

3120 Freeboard Drive, Suite 201 • West Sacramento, CA 95691

fax: 916/372-5636 • mwiseman@rcac.org

You can also register online and check for the latest workshop information at www.rcac.org, under Trainings and Events

**RCAC**3120 Freeboard Drive, Suite 201
West Sacramento, CA 95691 RCAC is the Western RCAPNonprofit Org.
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Sacramento, CA

FREE California Drinking Water Workshops July-December 2010 Schedule at a Glance

Classroom Workshops:

All classroom workshops and the CalTAP Fair qualify for six contact hours of continuing education training.

7/14/10	Water System Inspections & Sanitary Surveys	Redding
7/15/10	CIP & Strategic Financial Planning	Yreka
7/28/10	Surface Water Treatment	Clearlake
7/29/10	Water Quality & Monitoring	Little River
8/3/10	Arsenic Remediation	Mt. Shasta
8/5/10	Groundwater Rule & Disinfection By-Products Rule	Susanville
8/26/10	Water System Inspection & Sanitary Surveys	South Lake Tahoe
9/22/10	Monitoring & Water Quality	Redding
9/23/10	SPECIAL EVENT: CalTAP Fair for Small Water Systems	Redding
9/29/10	O&M: Wells, Valves, Water Main, Hydrants & Meters	Barstow
9/30/10	SCADA-Energy Savings Opportunities & Storage Tank O & M	Ontario
10/5/10	Infrastructure Funding from A to Z	Monterey
10/7/10	Strategic Planning & Policies	Santa Cruz
10/13/10	Water System Inspections & Sanitary Surveys	Palm Desert
10/14/10	Distribution-Regulated Contaminants	San Bernardino
10/20/10	O&M: Wells, Valves, Water Main, Hydrants & Meters	Fortuna
10/21/10	Water Conservation, Water Audits & Leak Detection	McKinleyville
10/27/10	Pumps & Motors Efficiencies / Well Technologies	Beaumont
12/1/10	Water Audits, Leak Detection & Water Conservation	Temecula
12/2/10	Water Audits, Leak Detection & Water Conservation	San Diego

Online Workshops:

Online workshops are internet-based workshops offered two times per day: **11 a.m.-1 p.m.** and **4-6 p.m.** and qualify for two contact hours.

7/6/10	Board Basics: Water Supply Basic Operations	7/7/10	Board Basics: Roles & Responsibilities
8/10/10	Board Basics: Safe Drinking Water Act	8/11/10	Water Conservation
9/7/10	Board Basics: Capital Improvement Plans	9/8/10	Total Coliform Rule & Compliance
10/5/10	Board Basics: Financial Management	10/6/10	Water Audits & Leak Detection
11/2/10	Board Basics: Rate Setting	11/3/10	Pumps & Motors Efficiency
12/7/10	Source Water Protection	12/8/10	Disinfection By-Products Rule

You can register online at www.rcac.org, under RCAC Trainings & Events. For registration questions, please contact Mark Wiseman, RCAC, by e-mail at: mwiseman@rcac.org.