

RECHARGE DILEMMAS FOR WATER MANAGERS

Annual Conference

Water Resources Issues in Southern California

Monday, February 7th, 2011

Hilton Hotel Ontario Airport, 700 North Haven Avenue, Ontario, CA 91764

**SCROLL DOWN FOR REGISTRATION PAGE AND
FOR FULL PROGRAM DETAILS**



Association of Ground Water Agencies

American Ground Water Trust

in cooperation with the

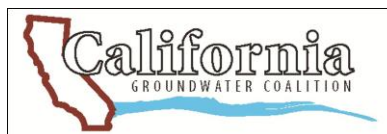
Groundwater Resources Association of California (GRA)

and

California Groundwater Coalition (CGC)

and

Southern California Water Utilities Association



**** CONTINUING EDUCATION ****

ATTORNEYS: 6.5 General MCLE Credits Approved by The State Bar of California

PRESENTATIONS AND PRESENTERS

7:00 – 8:00 REGISTRATION AND SIGN IN

8:00 – 8:15 WELCOME, OPENING REMARKS

◆ Tony Zampiello, Chairman, Association of Ground Water Agencies

◆ Tim Parker, Chairman, American Ground Water Trust

8:15 – 9:45 MODERATOR Tony Zampiello, Chairman, Association of Ground Water Agencies

8:15–8:45

CALIFORNIA'S WATER SHORTAGE ISSUE: HYDROLOGIC PERSPECTIVE

Timothy K. Parker, Parker Groundwater, Sacramento, CA

- Basic math of California's water budget (hydrologic input)
- Statistical probabilities of vagaries and long term changes to the input budget
- More math on water demand (agricultural, environmental, and urban)
- Options for storing water and moving it around

- California Water Plan Update 2013 : emphasized role for groundwater?

8:45 –9:15

CALIFORNIA'S WATER ISSUES: POLITICAL PERSPECTIVE

Chris Frahm, Brownstein Hyatt Farber Schreck, San Diego, CA

Duncan McFetridge, Brownstein Hyatt Farber Schreck, Sacramento, CA

- The major players on water issues in the new legislative session
- Likely impacts of the state budget woes on water project funding
- Issues of concern to the Groundwater Coalition

9:15 – 9:45

AQUIFER RECHARGE: REVIEW OF PROJECTS, PROGRESS AND PROSPECTS

(Excerpts and comment from a recently released Aquifer Recharge DVD)

Andrew Stone, American Ground Water Trust, Concord NH

- "...we are sure going to run out of cheap water..."
- "...it makes so much sense to put water under the ground..."
- "...we are talking about how problems have been solved..."
- "...ASR can save tremendous sums of money..."
- "...it is such a versatile technology..."

9:45- 10:15 BREAK

10:15 – 12:15 MODERATOR John Rossi, General Manager, Western Municipal Water District, Riverside, CA

10:15 – 10:45

CrVI: CIRCULAR SCIENCE & ITS IMPACTS ON WATER SYSTEMS

Adan Ortega Jr, AOA, Santa Ana, CA

- The Chromium issue background
- A review of studies and reports on Cr(VI)
- Chronology of regulatory response(s) to Cr(VI)
- Potential cost implications for water suppliers
- Compliance responsibilities for water agencies and managers

10:45 – 11:15

STREAM RESTORATION, GROUNDWATER USE, AND FLOW MAINTENANCE: WATER MANAGEMENT DILEMMAS

Derek B. Booth, President & Senior Geologist, Stillwater Sciences, Santa Barbara, CA

- Background to California river restoration initiatives
- Flow requirements for Southern Steelhead migration
- Unique attributes of southern California rivers
- Case study: mandates, conflicts, and opportunities on the Santa Maria River(Santa Barbara and San Luis Obispo counties, CA)

11:15 – 11:45

THE VADOSE ZONE: RECHARGE AND WATER QUALITY IMPROVEMENT OPPORTUNITIES

Stephen J. Cullen, Principal Hydrogeologist, Daniel B. Stephens and Associates, Inc., Goleta, CA

- Factors affecting recharge through the vadose zone.
- Opportunities for managing water quality with recharge enhancement
- Low Impact Development and recharge enhancement
- How much recharge can be expected? And, there can be unintended consequences...

11:45 – 12:15

SANTA PAULA WATER RECYCLING PROJECT: PUBLIC –PRIVATE PARTNERSHIP

Steven Owen, Vice President, PERC Water, Costa Mesa, CA

- California Code Section 5956 : private investment in municipal infrastructure
- Background to the Santa Paula “Design-Build-Operate-Finance” contract
- Technical aspects design, installation and operation

- Impact of the “new” recycled supply on water management options
- Potential for more private-public water project partnerships in California

12:15 – 1:15 LUNCH

1:15 – 2:45	MODERATOR Michael Fife, Brownstein Hyatt Farber Schreck, Santa Barbara, CA
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1:15 – 2:45

SOUTHERN CALIFORNIA WATER MANAGERS: IMPACTS OF LEGAL ISSUES (PANEL)

Jill Willis, Best, Best & Krieger

- Update on Status of Wanger Decisions
- Effect on Water Supplies for Southern California
- What's Next for the Delta

Amy Steinfeld, Brownstein, Hyatt, Farber, Schreck

- Colorado River: Litigation over the Quantification Settlement Agreement
- Trial Court Decision and Pending Appeal
- Status of Agriculture-to-Urban Conserved Water Transfers and Mitigation

David Boyer, McCormick, Kidman & Behrens

- Legal Issues Related to Water Supply Planning
- Recent Litigation Regarding UWMPs
- Tips on How to Avoid Common Legal Pitfalls

2:45 – 3:00 BREAK

3:00 – 4:45	MODERATOR Jeannette Vagnozzi, President, Southern California Water Utilities Association
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3:00 – 3:30

CHALLENGES IN REDUCING RUNOFF:

DESIGN & MAINTENANCE OF STORMWATER INFILTRATION SYSTEMS

Kevin McGillicuddy, Director, Stormwater Treatment Division, Roscoe Moss Company, Los Angeles, CA

- Why on-site stormwater management is a hot topic
- Designs and costs of large & small stormwater management installations
- Maintenance requirements to ensure system efficiency
- Groundwater storage effects of “engineering” aquifer recharge

3:30- 4:00

STORMWATER INFILTRATION AND GROUND WATER QUALITY REGULATIONS

Elizabeth Janes, USEPA, Region 9 Ground Water Office, San Francisco, CA

- Underground Injection Control (UIC) regulations
- Stormwater Contaminants of Concern
- Non-Endangerment Standard, 40 CFR 144.12
- What is and Is Not injection - Regulatory Definition, 40 CFR part 144.3
- NPDES... and UIC - Does compliance with one compromise compliance with the other?

4:00 – 4:30

MS4 PERMITS: CHALLENGES FOR IMPLEMENTATION

Martha Davis Executive Manager for Policy Development, Inland Empire Utilities Agency, Chino, CA

- Problems that MS4 regulations seek to solve
- How realistic are MS4 objectives? (Especially maintenance of predevelopment hydrology)
- Current status of local authority response and compliance
- Ecological and downstream user consequences of runoff reduction
- Measures needed ensure greater adoption and compliance with MS4

4:30 – 4:45

SUMMARY AND CLOSING REMARKS

4:45 -6:00 RECEPTION

TUESDAY FEBRUARY 8TH FIELD TRIP
[Registration required]

Meet at 8:30 am at the Main San Gabriel Basin Watermaster Office.
The Tour will begin at 9:15 am and return by Noon. (Coffee and donuts will be available)

Main San Gabriel Basin Watermaster, 725 North Azusa Avenue, Azusa, CA 91773
(Directions will be provided to those who register for the trip)

Field trip participants will be given an overview of the flood control and water conservation activities in the Main San Gabriel Basin by staff from the Los Angeles County Flood Control District. Learn how the Flood Control District performs the delicate balancing act of optimizing storm water capture while still providing flood protection to the communities of the San Gabriel Valley. Participants will tour the key flood control and water conservation facilities.



**San Gabriel Canyon
Spreading Grounds**

**Join us and take a
closer look at Santa
Fe Dam and
Spreading Grounds**



SCROLL DOWN FOR REGISTRATION PAGE

Feb 7th, 2011 - Recharge Dilemmas for Water Managers – Registration
Hilton Hotel Ontario Airport, 700 North Haven Avenue, Ontario, CA 91764

Registration	\$250	<input type="checkbox"/>
AGWA Members & Affiliate Members	\$215	<input type="checkbox"/>
Employees of American Ground Water Trust Corporate Members (\$250+ Level)	\$215	<input type="checkbox"/>
California Groundwater Resources Assoc (GRA) Members	\$225	<input type="checkbox"/>
Full-Time Students (ID required at registration)	\$110	<input type="checkbox"/>
Exhibit Table - 6' *Personal Registration above is also required	\$250*	<input type="checkbox"/>
Fieldtrip to Los Angeles River Recharge Basins		

Tues, Feb 8: (9:00 am to 12:00 noon)

\$25

Conf. Registration includes: Handouts, CD of Presentations, On-site Lunch and Breaks

Walk-In Registration on day of event: \$300, AGWA & AGWT Members \$250,
GRA members \$260, Student \$130, Fieldtrip \$35

PAYMENT: <input type="checkbox"/> Check <i>[Make check payable to: American Ground Water Trust]</i>	Total _____
<input type="checkbox"/> AMEX <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> PO# _____	
Credit Card No. _____	Expiration _____
Cardholder Name _____	
Registration Name _____	
Title/Position _____	
Company/ Organization _____	
Address _____	
City _____	State _____ Zip _____
Phone _____	E-Mail _____

Register by:

MAIL - American Ground Water Trust, 50 Pleasant Street, Suite 2, Concord, NH 03301-4073
FAX - (603) 228-6557 TEL - (800) 432-7748 WEB – www.agwt.org

ASSOCIATION OF GROUND WATER AGENCIES

AGWA, was formed in 1994 by a group of Southern California groundwater basin management agencies to provide a unified voice to coordinate efforts and exchange information to enhance the effective management of groundwater resources. AGWA's purpose is to create a forum for the discussion of groundwater issues for entities responsible for management of groundwater basin resources.

AGWA's primary objectives are to promote:

- ◆ More effective means of enhancing management of groundwater basins,
- ◆ The reliability of existing groundwater supplies,
- ◆ The increase of basin yields and the protection and enhancement of groundwater quality

AMERICAN GROUND WATER TRUST

The AGWT was formed in 1986 as a non-profit education organization with the mission of promoting interest and awareness in ground water issues. Specifically, the AGWT's conference and workshop programs and educational materials:

- ◆ Communicate the environmental and economic value of ground water
- ◆ Showcase ground water science and technology solutions
- ◆ Increase citizen, community and decision-maker awareness
- ◆ Facilitate stakeholder participation in water resource decisions

CALIFORNIA GROUNDWATER COALITION

CGC was formed in 2007 as a joint endeavor of the Association of Ground Water Agencies (AGWA), the Ground Water Resources Association of California (GRA) and the American Ground Water Trust (AGWT). The Coalition's principal mission is to educate policy makers about groundwater; and promote the benefits of comprehensive groundwater management and use in legislative and other water policy arenas. The Coalition recognizes:

- ◆ Groundwater development, conjunctive use, and groundwater storage have the capability to provide increased water supply reliability for California
- ◆ Groundwater management and monitoring are essential to the successful development and protection of the state's groundwater resources for current and future generations
- ◆ New infrastructure is needed to obtain statewide benefit from groundwater resources utilization and replenishment potential.

SOUTHERN CALIFORNIA WATER UTILITIES ASSOCIATION

Southern California Water Utilities Association has a membership of over 400 from a wide range of water utility personnel and includes members from other utility organizations and regulatory agencies along with ancillary companies providing support services to the utilities.

The SCWUA objectives are:

- ◆ To establish a relationship and foster communications and cooperation between members and their respective agencies and companies.
- ◆ To assist in educating and advancing the professional growth of its members.
- ◆ To act as a media for the exchange of information pertinent to the water works industry.
- ◆ To promote the image of the water works profession.

