



WATER EDUCATION  
FOUNDATION

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Sacramento, CA 95811  
[www.watereducation.org](http://www.watereducation.org)



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**GROUNDWATER TOUR  
DRAFT ITINERARY  
September 24-25, 2015**

**TOUR STAFF:** **Dan Scott**, Tour Director, Water Education Foundation  
**Sue McClurg**, Deputy Executive Director, Water Education Foundation

**RESOURCE SPEAKERS:** **Thomas Harter, Ph.D.**, Robert M. Hagan Endowed Chair in Water Management and Policy, University of California, Davis  
**Carl Hauge**, Chief Hydrologist (retired), California Department of Water Resources

**DAY 1: Thursday, September 24**

**7:30 a.m.** **CHECK IN** at Terminal B Special Events Parking, Sacramento International Airport.  
Look for the ALL WEST bus.

**8:00 a.m.** **DEPART** for California State University, Sacramento  
Sacramento, CA  
**Dan Scott**  
Water Education Foundation  
➤ Tour welcome and review of ground rules

**8:30 a.m.** **ARRIVE** at the California Water Science Center, CSUS, Placer Hall  
**Dan Scott**  
➤ Tour overview  
**Thomas Harter**  
➤ Issues of quality and quantity of groundwater

**Rich Juricich**

Principal Water Resources Engineer, California Department of Water Resources

- Regulating groundwater and the Sustainable Groundwater Management Act (SGMA) of 2014

**10:00 a.m.**      **DEPART** for Groundwater Extraction and Treatment (GET) Facility at Ancil Hoffman Park Carmichael, CA

**10:30 a.m.**      **ARRIVE** at Ancil Hoffman Park

**Steve Nugent**

General Manager, Carmichael Water District

- Overview of Carmichael Water District
- Groundwater and the American River
- Groundwater quality in the Carmichael Water District

**TBD**

Aerojet Rocketdyne

- The federal Superfund program and the Aerojet Rocketdyne Superfund site
- Risks of volatile organic compounds (VOCs) to groundwater quality
- Monitoring and halting migration of N-Nitrosodimethylamine (NDMA) into groundwater

**11:15 a.m.**      **DEPART** for Folsom Lake State Recreational Area Folsom, CA

**12:15 p.m.**      **ARRIVE** at Folsom Lake State Recreational Area

**1:00 p.m.**      Folsom Lake State Recreational Area, Beals Point

**John Woodling**

Executive Director, Regional Water Authority

**TBD**

City of Roseville

- Environmental sustainability of the lower American River
- Conjunctive use and the surface water-recharge-groundwater connection
- Injection wells, aquifer storage and recovery

**1:30 p.m.**      **DEPART** for Conaway Ranch Woodland, CA

**EN ROUTE**      **Sandy Matsumoto**

Associate Director- California Water Program, The Nature Conservancy

- Groundwater and critical habitat in California

**2:45 p.m.**      **ARRIVE** at Conaway Ranch

**Mike Hall**

Ranch Manager, Conaway Ranch

- History of Conaway Ranch and Reclamation District 2035
- Conaway Ranch role in regional water supply

**Carl Hauge**

- Geology of Yolo Basin extensometer
- Subsidence and its costs to infrastructure
- Conjunctive use with regional water supply

**3:30 p.m.**      **DEPART** for Yolo County Flood Control & Water Conservation District Headquarters  
Woodland, CA

**4:00 p.m.**      **ARRIVE** at Yolo County Flood Control & Water Conservation District Headquarters  
**Tim O'Halloran**  
General Manager, Yolo County Flood Control & Water Conservation District  
**Max Stevenson**  
Asst. General Manager-Resources, Yolo County Flood Control & Water Conservation  
District

- Integrated surface and groundwater management
- Yolo County system of real-time groundwater monitoring wells
- CASGEM and other regulatory requirements
- Nitrate fingerprinting
- Aquifer modeling

**Lindsay Smith**

Engineering Manager, West Yost Associates

- The history of Yolo County drinking water
- Formation of the Woodland-Davis Clean Water Agency
- WDWCA water project

**5:00 p.m.**      **DEPART** for dinner at Zio Fraedo's On the Water  
Vallejo, CA

**Dan Scott**

- Groundwater contamination and disadvantaged communities

**Resource Speakers**

- Q&A for Day 1

**6:30 p.m.**      **ARRIVE** at Zio Fraedo's On the Water

**Juliet Christian-Smith**

Climate Scientist, Union of Concern Scientists

- Climate-Resilient Groundwater Management: Metrics to Ensure Sustainable  
Groundwater Management for Current and Future Californians

**8:30 p.m.**      **DEPART** for Hilton Garden Hotel  
Fairfield, CA

**8:45 p.m.**      **ARRIVE** Hilton Garden Hotel

**DAY 2: Friday, September 25**

- 7:15 a.m. CHECK OUT AND LOAD LUGGAGE** on ALL WEST bus
- 7:30 a.m. Breakfast** at Hilton Garden Hotel  
**Dan Scott**  
➤ About the Water Education Foundation
- 8:45 a.m. DEPART** for Napa County Transportation and Planning Agency/Napa Valley Transit Authority  
Napa, CA
- 9:30 a.m. ARRIVE** at Napa County Transportation and Planning Agency/Napa Valley Transit Authority  
**Phil Miller**  
Deputy Director, Department of Public Works, Napa County  
**Patrick Lowe**  
Natural Resources Conservation Manager, Department of Public Works  
**Vicki Kretsinger Grabert**  
President and Principal Hydrologist, Luhdorff & Scalmanini Consulting Engineers  
➤ Napa County Groundwater Sustainability Program  
➤ Groundwater Sustainability Agency implementation  
➤ Water Availability Analysis (WAA) update  
➤ Milliken-Sarco-Tulocay and Los Carneros Water Recycling Projects  
➤ Drought update and El Nino projections  
➤ The 2014 Napa earthquake
- 10:15 a.m. DEPART** for Napa River Monitoring Project (Well #1-First St Bridge)  
Napa, CA
- 10:30 a.m. ARRIVE** at Napa River Monitoring Project  
**Phil Miller**  
**Patrick Lowe**  
**Vicki Kretsinger Grabert**  
**Reid Bryson**  
Staff Hydrogeologist, Luhdorff & Scalmanini Consulting Engineers  
➤ Well monitoring methods  
➤ Groundwater/surface interaction at Napa Rivers  
➤ Groundwater monitoring wells  
➤ Subsurface geology of Napa River
- 11:00 a.m. DEPART** for lunch at Oxbow Public Market  
Napa, CA
- 11:15 a.m. Lunch** at Oxbow Public Market

- 12:00 p.m.**      **DEPART** for winery/vineyard (*tbd*)  
Napa, CA
- 12:30 p.m.**      **ARRIVE** at Winery/Vineyard (*tbd*)  
**Carl Hauge**  
➤ Farming, soil formation and groundwater  
➤ American Viticultural Areas and terroir
- 1:15 p.m.**      **DEPART** for City of Davis  
Davis, CA
- 2:45 p.m.**      **ARRIVE** at City of Davis  
**TBD**  
Department of Public Works, City of Davis  
➤ Tour of groundwater infrastructure projects
- 3:30 p.m.**      **DEPART** for University of California, Davis  
Davis, CA
- 3:45 p.m.**      **ARRIVE** at University of California, Davis  
**Thomas Harter**  
➤ Dairy industry in California  
➤ Groundwater impacts from a Concentrated Animal Feeding Operation (CAFO)  
➤ Irrigated Lands Regulatory Program and other regulations on CAFOs  
➤ Central Valley Dairy Monitoring Program
- 4:45 p.m.**      **DEPART** for Sacramento International Airport
- 5:15 p.m.**      **ARRIVE** at Sacramento International Airport