

## CV FOR RICHARD M. SITTS

### Contact

Metropolitan Water District of Southern California  
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### Education

Ph.D., University of California, Davis, Ecology, 1978  
M.S., University of California, Davis, Ecology, 1974  
B.S., University of California, Davis, Zoology, 1971

### Professional Affiliations

American Fisheries Society

### Employment History

**1998-Present. Senior Resource Specialist, Metropolitan Water District of Southern California (Metropolitan).** Sacramento office. Participate in salmonid, delta smelt, resident fish, and ecosystem evaluations, especially as related to water management in the Delta. Also serve on water user and other science teams.

**1982-98. Supervising Project Manager, Foster Wheeler Environmental, and Ebasco. Sacramento.** Representative projects included Mokelumne River Salmon Instream Flow Study for California Department of Fish and Game. This involved multidisciplinary field studies and analyses of instream flows, habitat preferences, habitat characterization, water temperature modeling, migration barriers/fishways, spawning gravel aggradation and degradation, stranding, hydrology, riparian vegetation, population dynamics and modeling. Also for CDFG was the multidisciplinary Mono Lake Basin Streams and Upper Owens River Restoration project, again involving instream flows, geomorphology, hydrology studies, aquatic and riparian habitat restoration plans, and instream flow recommendations, and testimony before the California State Water Resources Control Board.

**1994. Lecturer, University of California at Davis.** Taught "Biology of Running Waters," an upper division course.

**1980-82. Environmental Specialist, California Department of Water Resources.** Sacramento. Principal biological investigator for CEQA studies for the Peripheral Canal and other Delta water diversion alternatives.

**1979-80. Senior Scientist and Project Manager. Ecological Analysts, Inc., Concord, CA.** Developed population dynamics models which incorporated direct and indirect biological impacts of Bay/Delta power plant and water export operations.

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### **1972-79. Research and Teaching Assistant, University of California at Davis.**

Conducted field studies on Bay/Delta fish larvae populations and plankton. Studied toxic effects of water temperature, salinity, and pesticides on aquatic organisms. Assisted in teaching courses on water pollution, estuarine ecology, and stream biology. Published.

### **Publications:**

Sharp, J. W., R. M. Sitts, and A. W. Knight. 1978. Effects of Kelthane and temperature on the respiration of *Crangon franciscorum*. *Comp. Biochem. Physiol.* 59C:75-79.

Sharp, J. W., R. M. Sitts, and A. W. Knight. 1979. Effects of Kelthane on the estuarine shrimp *Crangon franciscorum* (Stimpson). *Mar. Biol.* 50:367-374.

Sitts, R. M. and A. W. Knight. 1979. Predation by the estuarine shrimps *Crangon franciscorum* (Stimpson) and *Palaemon macrodactylus* (Rathbun). *Biol. Bull.* 156(3):356-368.

### **Presentations:**

Sitts, R. P. Unger, B. Adams, A. Huber and B. Manly. 2008. Modeling Effects of Water Project Operations on Delta Smelt Abundance. CALFED Science Conference. Sacramento.

Cramer, S.P. and R. Sitts. 2008. Harvest the Hatchery Fish: A Promising Recovery Strategy for ESA Listed California Chinook Salmon. CALFED Science Conference. Sacramento.

Foin, TC. and R. Sitts. 2008. Splittail Population Dynamics and Water Export from the Delta. CALFED Science Conference. Sacramento.

R. Sitts. 2008. Modeling Delta Smelt Population Dynamics. California Water and Environmental Modeling Forum. Asilomar.

Unger, P., R. Sitts, C. Nations and B. Adams. 2008. Survival Rate of Delta Smelt Larvae Before and During the POD Years. IEP Science Conference. Asilomar.

Sitts, R.M. and J. Watson. 2006. Comparing Fish Benefits and Costs of Past and Proposed Restoration Projects. CALFED Science Conference. Sacramento.