EIGHTEENTH ANNUAL MEETING OF THE CALIFORNIA AQUATIC BIOASSESSMENT WORKGROUP

DAVIS, CALIFORNIA
NOVEMBER 9 and 10, 2011

MEETING AGENDA

WEDNESDAY NOVEMBER 9    ARC Ballroom, UC Davis Campus

8:00 – 8:30  Registration

8:30 - 8:45  Welcome and Objectives of the Meeting – Jim Harrington, California Department of Fish and Game, Office of Spill Prevention and Response, Aquatic Bioassessment Laboratory (ABL), Rancho Cordova

8:45 - 9:55  Updates on the SWAMP Statewide Bioassessment Monitoring

Status of the Surface Water Ambient Monitoring Program (SWAMP) and Recent Accomplishments – Shakoora Azimi-Gaylon, State Water Resources Control Board (SWRCB), Sacramento

Extent of California's Perennial and Non-Perennial Streams – Jennifer Salisbury, SWRCB

The Value of a Probabilistic Monitoring Design in SWAMP's Statewide Bioassessment Program – Dawit Tadesse, SWRCB

The Condition of California's Wadeable Perennial Streams – Toni Marshall, SWRCB

Biology-based Stressor Thresholds - Letting the bugs tell us where enough is enough – Susan Monheit, SWRCB

9:55 - 10:15  Overview and Services Available for Entering SWAMP Bioassessment Data into CEDEN – Steve Steinberg, SCCWRP

Understanding and Using CEDEN - Karl Jacobs, SWRCB

10:15 – 10:45  Break

10:45 - 11:30  A Monitoring Network for Detecting the Hydrologic Effects of Climate Change on Sierra Nevada Streams and Biological Indicators - results from the first 2 years– Dave Herbst, University of California, Sierra Nevada Aquatic Research Laboratory
11:30 - 11:45  **SWAMP/ABL Bioassessment Training Program** – Jim Harrington, ABL

**Session 1 – Aquatic Invertebrate and Benthic Algae Sampling and Physical Habitat Data Collection**

11:45 - 12:15  **Updating the SWAMP Bioassessment Protocol for Collecting Aquatic Invertebrates and Measuring Physical Habitat** - Raphael Mazor, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa; Jim Harrington and Shawn McBride, ABL

12:15 - 12:45  **Overview and Update on CRAM Procedures used in PSA and Development of CRAM for Various Habitats** – Chris Solek, SCCWRP

12:45 – 2:00  **Lunch**

**Session 1 - Continued**

2:00 - 2:30  **Importance of Decontamination in Controlling Aquatic Invasive Species (AIS)** – Martha Volkoff, DFG, Habitat Conservation Planning Branch, Invasive Species Program, Sacramento

2:30 - 2:50  **Spills, Fish Kills and How to Work with DFG for Water Quality Issues** – Janna Rinderneck and Angie Montalvo, DFG, Office of Spill Prevention and Response (OSPR), Sacramento

**Session 2 – Algae Bioassessment Tools and Implementation**

2:50 – 3:35  **SWAMP's Tools and Infrastructure for the State's Algae Program** – Lilian Busse San Diego Regional Water Quality Control Board

**Algae-Inter-Calibration Study: Targeted Riffle and Multi-Habitat Sampling Approaches for Algae Bioassessment** - Matt Cover, California State University Stanislaus (CSUS)

3:35 – 3:45  **Break**

3:45 – 4:15  **Update on the Benthic Algae IBI for Southern California** – Betty Fetscher, SCCWRP
THURSDAY NOVEMBER 10  
ARC Ballroom, UC Davis Campus

Session 3 – Aquatic Invertebrate Laboratory Procedures and Expectations

9:00 – 9:30  Overview of Freshwater Invertebrate Laboratory Practices and What to Expect from Your Bug Lab – Dan Pickard and Joe Slusark, DFG/Chico State Foundation

9:30 – 9:50  Processing Freshwater Invertebrates using DNA Barcoding Techniques – Eric Stein SCCWRP

Session 4 – Bioassessment Data Entry and Output

9:50 – 10:05  Use of the FlexiGrid System for Processing of Physical Habitat data Collected per Multiple Protocols, including SWAMP – Revital Katznelson, UC Berkeley Extension

10:05 – 10:25  Data In and Data Out: Status on the SWAMP Database and Tools for Biological Data – Marco Sigala, Moss Landing Marine Laboratories

Session 5 – Ambient and Point-Source Bioassessment Data Interpretation

10:25 – 11:10  Modeling to Improve Precision, Accuracy, and Sensitivity of Biological Indices - Nevada as a case study – Charles Hawkins and Jake Vander Laan, Utah State University, Logan

11:10 – 11:30  Break

11:30 – 11:50  Biological Effects of Hydromodification – Eric Stein, SCCWRP and Matt Cover CSUS

11:50 – 12:10  Central Coast Agricultural Waiver Bioassessment Results – Sarah Greene Lopez Central Coast Water Quality Preservation, Inc

12:10 – 12:30  Malibu Creek Watershed as an Outlier on Water Quality and IBI Scores – Jan Dougall, Las Virgenes Municipal Water District, Calabasas

12:30 – 1:30  Lunch
Session 5 Continued

1:30 – 1:50 Effects of Vineyard Coverage and Extent on Benthic Macroinvertebrates in Napa and Sonoma Counties – Justin Lawrence, UC Berkeley

1:50 – 2:10 Stressor Identification Process for Dry Creek - Findings and Challenges – Barbara Washburn, Office of Environmental Health Hazard Assessment Ecotoxicology Program, Sacramento

2:10 – 2:30 Linking Land Use, Instream Chemical Stressors, and Benthic Invertebrate Assemblages in Nevada Streams – Jake Vander Laan and Charles Hawkins, Utah State University, Logan

2:30 – 2:50 Freshwater Amphipods of California and Implications with Bioassessment – G. O. "Geo" Graening California State University Sacramento

2:50 – 3:10 Break

3:10 – 3:30 Bioassessment of San Gabriel River watershed – Scott Johnson, Aquatic Bioassay & Consulting Laboratories and Kristy Morris, Council for Watershed Health

3:30 – 3: 50 Citizen-based Monitoring Characterizes Water Quality and BMI throughout a Western Sierra Stream – Joanne Hild and Rachel Durben, Sierra Streams Institute, Nevada City

3:50 – 4:30 Wrap-up of Meeting and Discussion on Forming Workgroups