

Surface Water Ambient Monitoring Program (SWAMP)—Region 5 Activities Funded thru FY 05/06

Ambient Monitoring

- Long-term Trend Monitoring
 - Main stem of the lower SJR (2000-06)
 - SJR major tributaries (2001-06)
- Rotational Basin Monitoring
 - Upper Sac Basin
 - Pit River (2001-02)
 - Upper Feather River (2000-03)
 - Lower Sac Basin
 - Valley Floor Tributaries (2000-04)
 - American River (2004-05)
 - Lower Feather, Yuba and Bear Rivers (2005-06)
 - SJR Basin
 - Cosumnes, Mokelumne, and Calaveras Watersheds (2002);
 - Stanislaus, Tuolumne, Merced and Valley Floor Watersheds (2003-04);
 - Westside SJR (Orestimba, Del Puerto, Ingram, Hospital, etc.) 2004-05
 - Tulare Lake Basin
 - Area above major Sierra Nevada reservoirs (2001-04)
 - Tule and Kaweah Basins (2004-06)

Special Studies

- Screening Central Valley surface waters for endocrine disruption chemicals
- Baseline data for nutrient loading model for Fresno River and Hensley Lake
- Impact of agricultural tailwater on water column/sediment toxicity and biological communities
- NPDES toxicity testing and TIE support (Miners Ravine)

Development of Region 5 SWAMP website

- One stop shop for program information, available workplans/reports, and all SJR Basin water quality data (current to December 2008¹).

Development of In-house ability to conduct bacteria analyses (total coliform and E. coli)

Support Regional Priorities and Assessments thru leveraged resources

- Drinking Water Policy (total organic carbon and bacteria feeds conceptual models)
- Selenium Control Program (leverage \$40,000 to \$1.5-mil multi-agency effort)
- CV-SALTS and Salt/Boron TMDL (expanded data collection)
- Organophosphate TMDL (provided link between chemical results and toxicity tests/TIEs; evaluated pyrethroid replacement product as required by TMDL)
- SJR Dissolved Oxygen TMDL
- Irrigated Lands Program (collaborative monitoring during rotations and funded TIEs for toxicity hits)
- Water Quality Objectives for Bacteria Indicators/evaluation recreational use
- Erosion/Sediment guidelines (baseline TSS data collection)
- Development of Biocriteria—bioassessment monitoring in low gradient agricultural drains and Delta water bodies

Listing/review of Impaired Water Bodies—303(d) Listing for TMDLs

- Selenium, salt, boron, toxicity in SJR Basin
- Identification of widespread pyrethroid contamination in ag and urban water bodies
 - Directly linked to Stormwater annual monitoring plan revision (program support)
- Sac-SJR-Delta OC/PCB fish tissue monitoring

¹ Updated April 2009