Overview


Many of the activities assigned in 2008 to the Central Valley Water Board were accomplished while new actions have been recommended by the Delta Stewardship Council. The 2014 Delta Strategic Plan contains nine projects. Four of these continue work begun under the 2008 Strategic Work Plan, three are new projects recommended by the Delta Stewardship Council, and two are new priorities identified by the Central Valley Water Board. The 2014 Delta Strategic Plan identifies priority projects, timelines and deliverables, and resource needs for 2014-2019.

Resources to implement the 2014 Delta Strategic Work Plan include 5.5 staff from multiple programs (TMDLs, Basin Planning, NPS and Delta Section). All staff are located in the Rancho Cordova Water Board office.

Goals

The goals of the Delta Program are to coordinate with the State Water Board and San Francisco Bay Regional Board regarding planning and permits that affect Delta water quality and to implement the 2014 Delta Strategic Work Plan, which identifies the following projects:

- Implement the Mercury Control Program in the Delta (TMDL)
- Review the control program for dissolved oxygen in the Stockton Deep Water Ship Channel (TMDL)
- Develop and implement a sustainable Regional Monitoring Program
- Evaluate actions to address low dissolved oxygen in Old and Middle Rivers
- Develop a Delta Nutrient Study Plan
- Adopt a Basin Plan amendment for pyrethroid insecticides in the Delta (TMDL)
- Document current and potential beneficial reuse of wastewater in the Central Valley (NPDES)
- Adopt a Basin Plan amendment for diuron herbicide in the Delta (Basin Planning)
- Conduct an assessment of toxicity of current use fungicides and herbicides (Basin Planning)

The primary goal of the Regional Monitoring Program (RMP) is to track the effectiveness of beneficial use protection efforts through monitoring of water quality parameters and their effects. RMP monitoring and evaluation studies (boxes) are closely linked with Regional Board projects and policies (arrows).
### Accomplishments: FY 2016-2017

**Delta Nutrient Research Plan**
- Held a workshop on effects of nutrient forms and ratios on phytoplankton and developed final white paper
- Completed white papers on drinking water concerns
- Developed a prioritization process and ranked studies recommended by white papers

**Delta Regional Monitoring Program**
- Completed 2nd year of pesticide and toxicity monitoring; 2nd year of pathogens monitoring; and 1st year of mercury
- Developed work plans for FY17/18
- Coordinating with ILRP and enforcement on possible SEPs

**Stockton Deep Water Ship Channel Dissolved Oxygen Program**
- Agreement reached by participating entities to continue operation as needed through May 2018.
- Aerator used on 18 days to reverse low dissolved oxygen conditions

**Herbicide and Fungicide Toxicity Project**
- UC Davis began contracted work to test toxicity to native algae of a limited number of fungicides and herbicides

### Priorities and Performance Targets FY 2017-2018

**Delta Nutrient Research Plan**
- Release draft plan for public comment and external scientific peer review
- Provide Information Item to the Board on the draft plan
- Present final plan to the Board and the Delta Stewardship Council
- Initiate contract for modeling nutrients in the Delta (joint project with the San Francisco Bay Water Board)

**Delta Regional Monitoring Program**
- Complete monitoring reports for pathogens and pesticides and toxicity data
- Expand monitoring of mercury in fish and water
- Begin nutrient monitoring during cross-Delta cruises using ship-mounted instruments
- Partner with San Francisco Bay nutrient program to begin standardizing of chlorophyll monitoring equipment
- Increase discharger and stakeholder participation

**Dissolved Oxygen Control Programs**
- *Stockton Deep Water Ship Channel* – Continue tracking and reporting dissolved oxygen conditions and performance of the aeration system. Coordinate with stakeholders to support continuation of the aeration operation and maintenance agreement
- *Old and Middle Rivers* – Complete white paper summarizing dissolved oxygen conditions in Old and Middle Rivers and Grant Line Canal and potential control measures. Release white paper for public comment

**Delta Projects Implemented Under TMDL and NPDES Programs**
- *Mercury Control Program* (TMDL)
- *Pyrethroid Basin Plan Amendments* (TMDL)
- *De-listing of diuron impairments being addressed by Irrigated Lands Program* (Planning)
- *Beneficial Reuse of Water Evaluation* (NPDES)