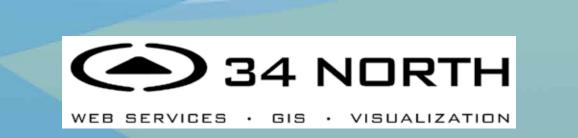


CALIFORNIA ESTUARY MONITORING WORKGROUP USING WEB PORTALS TO IMPROVE SCIENTIFIC UNDERSTANDING

KELSEY COWIN, STEPHANIE FONG, BILL TEMPLIN, ALISON WEBER-STOVER P://WWW.WATERBOARDS.CA.GOV/MYWATERQUALITY/MONITORING_COUNCIL/ESTUARY_WORKGROUP

HTTP://CAESTUARIES.OPENNRM.ORG







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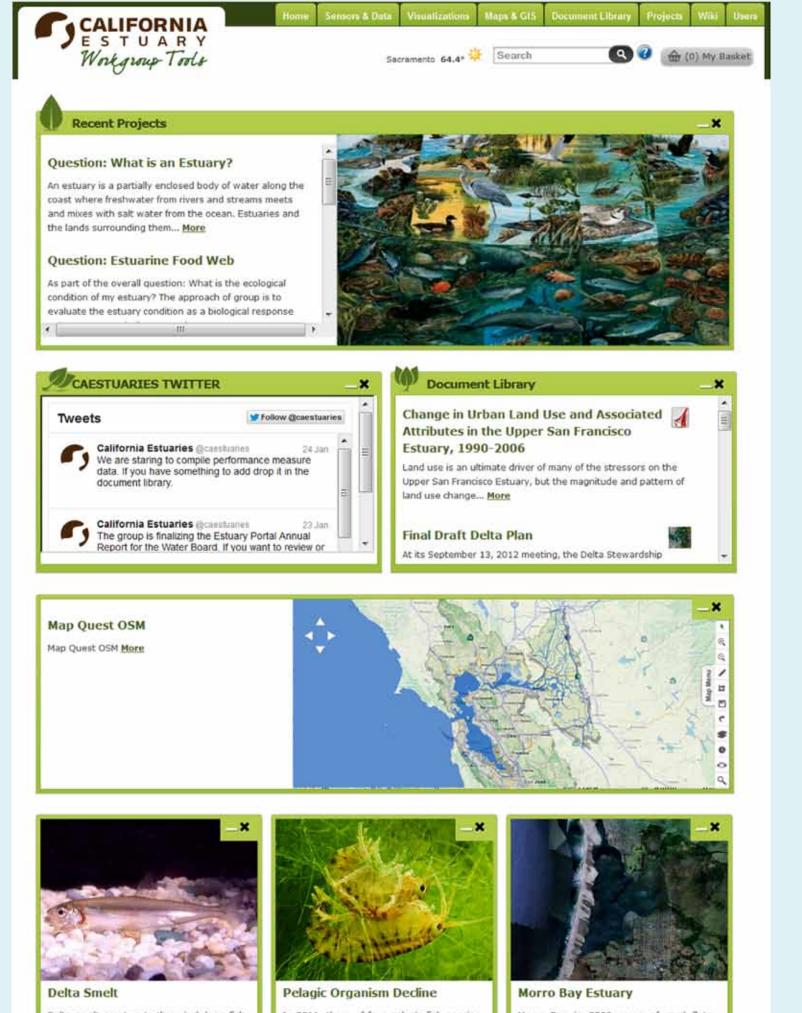
CALIFORNIA ESTUARY MONITORING WORKGROUP

CEMW IS WORKING TOWARDS THESE GOALS:

- Evaluating and enhancing existing estuarine
- Improving assessment of multiple data sources through web-based tools
- Reporting that improves the delivery of ecosystem health information via the internet
- Collaboratively identifying questions and answers to be addressed on the Estuaries Portal
- Developing performance measures to inform resource management decisions

COLLABORATIVE WEB-BASED TOOLS

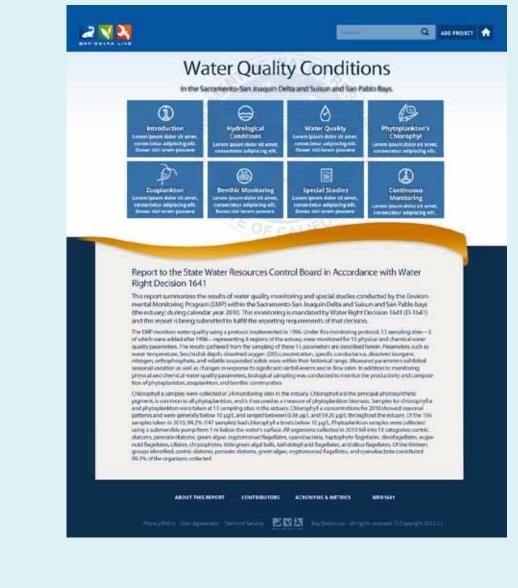
The workgroup web-based tools help natural resource managers, scientists, policy makers, and manage, and understand the Estuary.

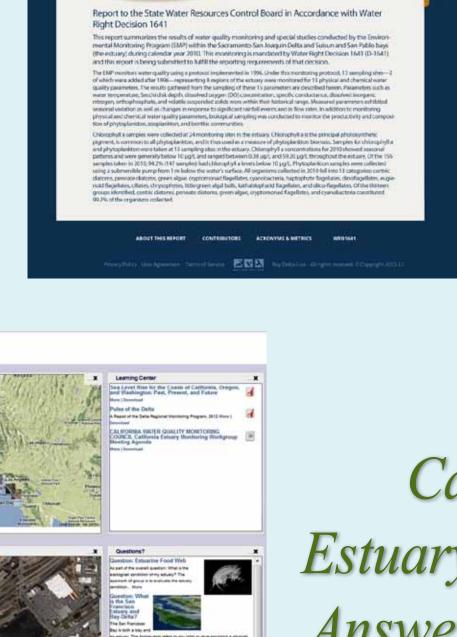


CEMW WEB-BASED TOOLS

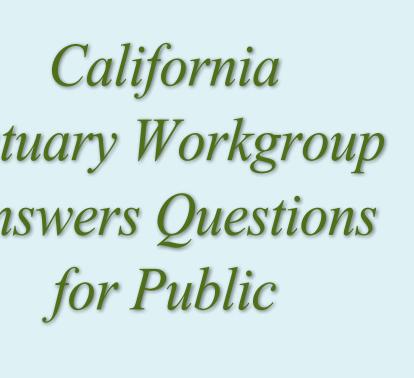


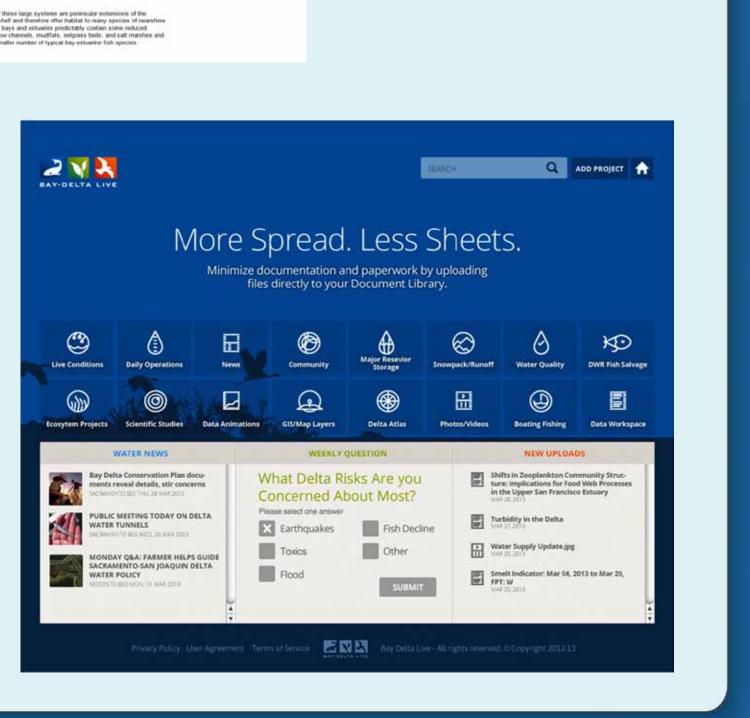
State of California
ENVIRONMENTAL PROTECTION AGENCY
NATURAL RESOURCES AGENCY
CALIFORNIA WATER QUALITY MONITORING COUNCIL





Interest Value

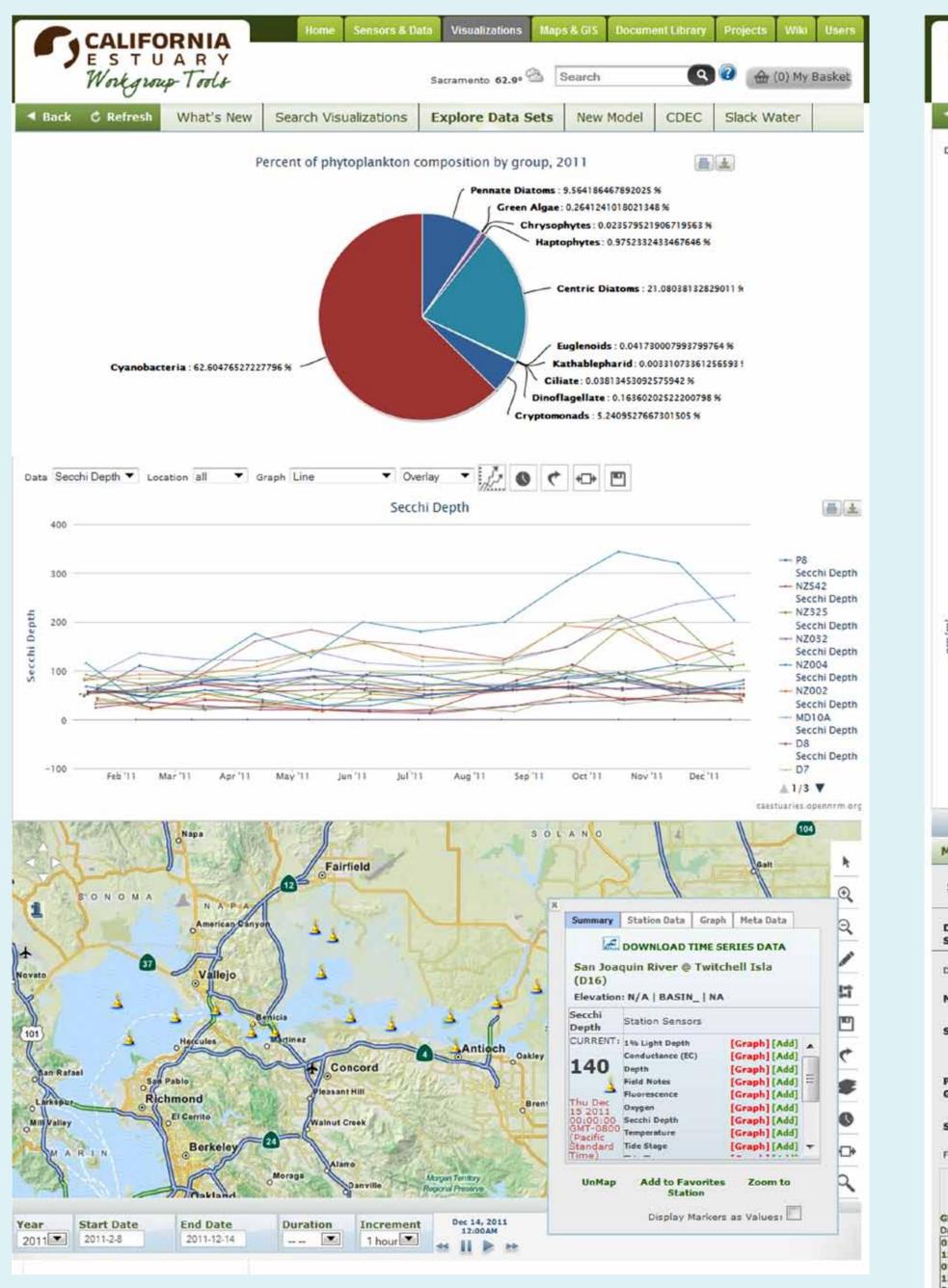


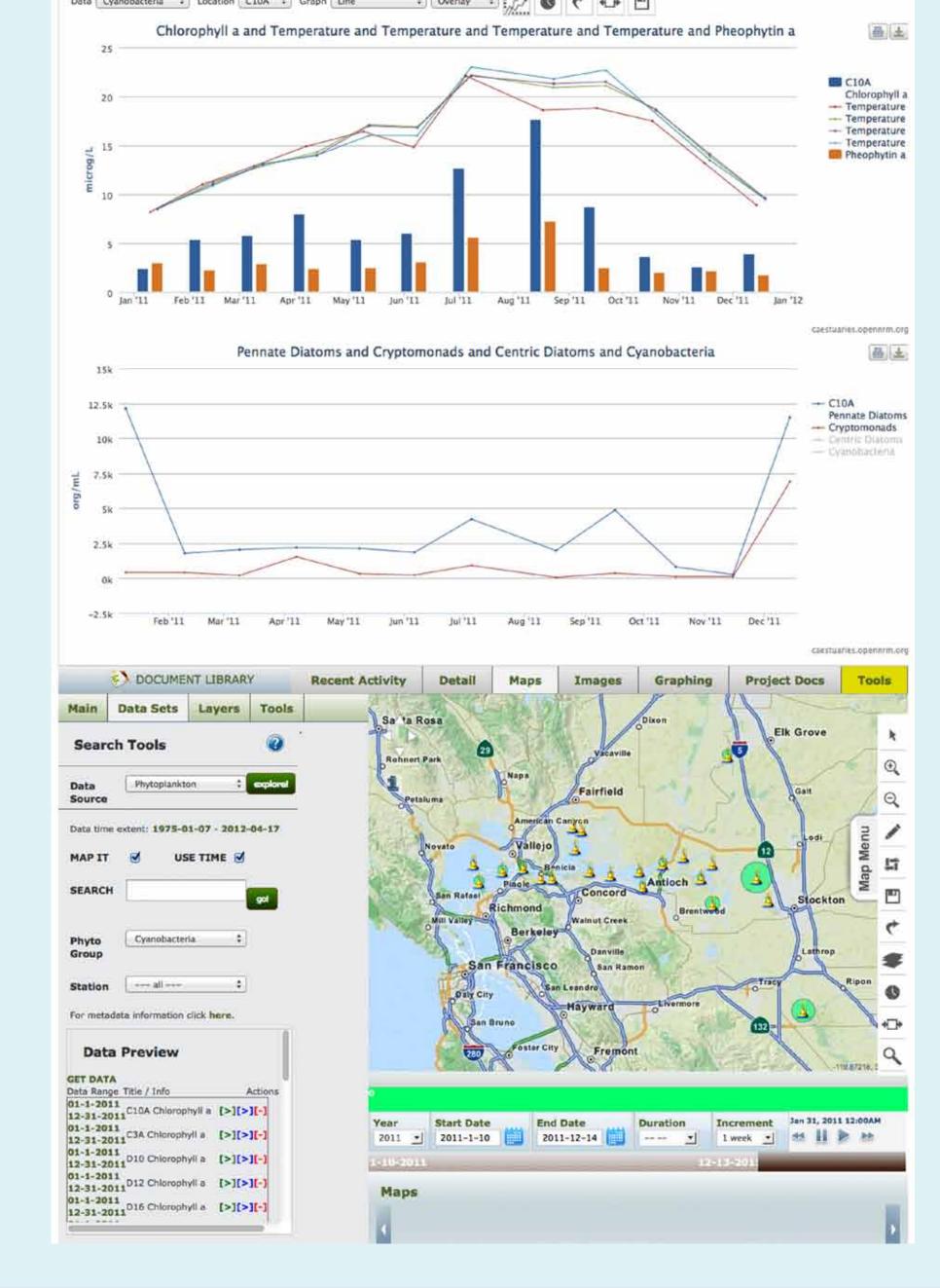


ENHANCED ACCESS TO ENVIRONMENTAL MONITORING DATA

An initial challenge for the CEMW was to improve access to the 40 years of monitoring results from the Interagency Ecological Program Environmental Monitoring Program. Initial efforts were focused on presenting the Department of Water Resource's "Water Quality Conditions in the Sacramento-San Joaquin Delta" report. California Environmental Data Exchange Network (CEDEN) and California Data Exchange Center (CDEC) data have been added, and representation of other agency monitoring projects and reports are intended for the future.

IEP DATA VISUALIZATION AND ANALYSIS



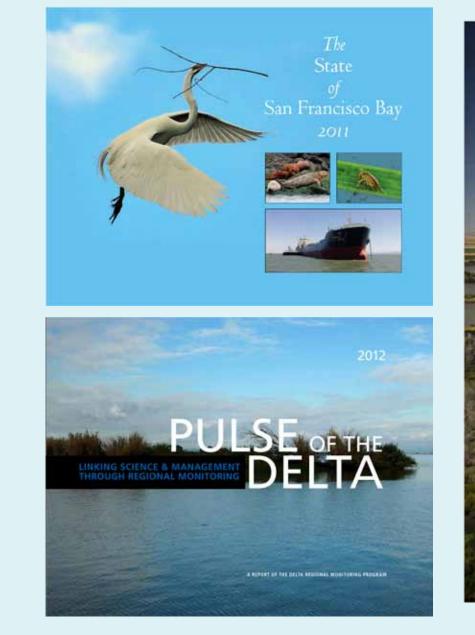


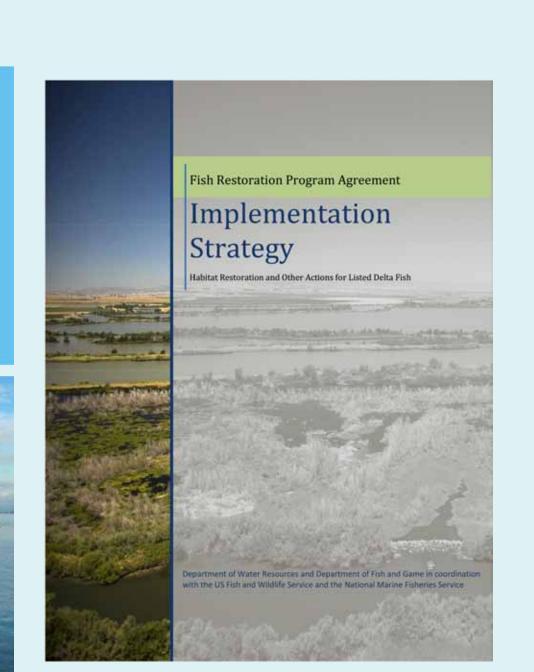
PERFORMANCE MEASURES

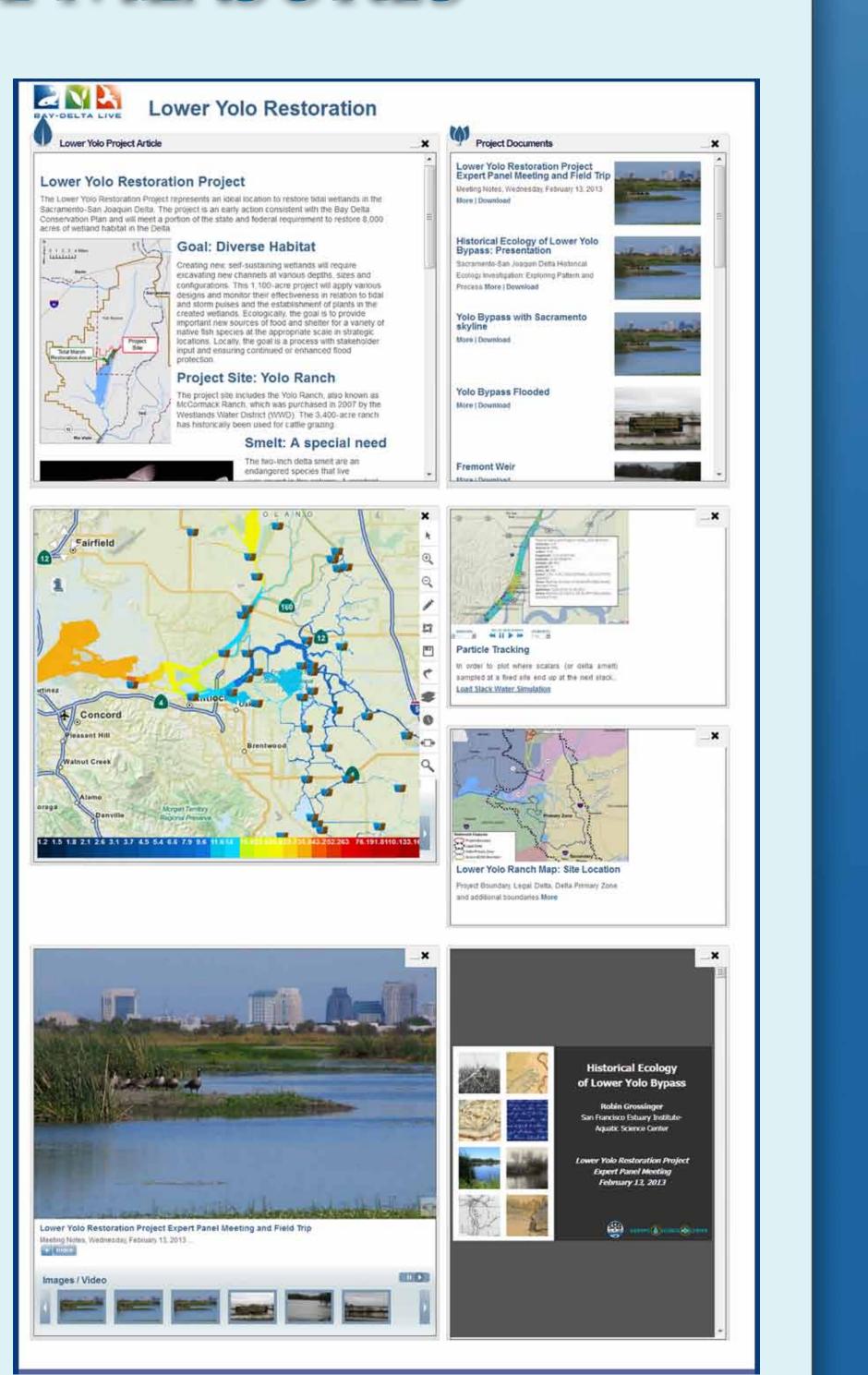
monitoring in the San Francisco Estuary. These performance measures support restoration efforts in assessing and adaptively managing projects. The Estuaries Portal endeavors to include performance measures in the future as a means of evaluating progress towards restoring the health of the ecosystem. Including these performance measures will not only help managers evaluate the effectiveness of habitat restoration, but also the potential for future sites.

EXISTING OBJECTIVES, ECOLOGICAL INDICATOR ASSESSMENT AND PERFORMANCE MEASURES

- San Francisco Estuary Partnership's "State of the San Francisco Bay" has "benchmarks" for water, habitat, living resources, ecological processes, and stewardship.
- The State Water Resource Control Board's Bay-Delta Plan has established many Water Quality Objectives, including Dissolved Oxygen and Salinity for a variety of Beneficial Uses, and are considering flow
- The Fish Restoration Program Agreement Implementation Strategy includes performance measures for Landscape Restoration.
- The Delta Regional Monitoring Program's "Pulse of the Delta"







WHY GET INVOLVED?

We asked our members what they liked most about the work group and website tool. Here are some of their

- Opportunities to facilitate interdisciplinary science
- Enhanced opportunities for collaboration across
- Share ideas and data in an open forum with fewer communication boundaries
- Venue for collegial review of monitoring and research plans, assessments, etc.
- Establish collaboration networks with other researchers that normally would not exist
- Opportunities to identify efficiencies in monitoring programs (e.g., reduce redundancies, improved coordination and comparability, cost effectiveness)
- Improved access to data and information generated by others to increase the power of your own research, and increase use potential beyond the original purpose (through collaboration, comparability, and making data readily available to the broader community)
- Access to tools that support data analysis and reporting (e.g., visualization tools on workgroup site) and ability to help develop new tools
- Dissemination of information generated through monitoring and research activities to a variety of audiences (in appropriate formats)
- Provide a place for all sides of stories to be told

HOW TO GET INVOLVED

Contact co-facilitators Stephanie Fong sfong@sfcwa.org or Alison Weber Stover weberstover@bay.org.