## CALIFORNIA WATER QUALITY MONITORING COUNCIL

**Monitoring Council Meeting Notes** 

## Wednesday, August 11, 2010 - 9:00 AM to 4:00 PM

Conference Room 550 – Fifth Floor Joe Serna Jr. Cal/EPA Headquarters Building 1001 I Street, Sacramento



## Monitoring Council Members and Alternates in attendance:

Jonathan BishopSarge GreenDave Bolland (phone)Dale Hoffman-FloerkeVal ConnorParry Klassen

Carl Lischeske Phil Markle Armand Ruby Linda Sheehan Stephen Weisberg

Others in attendance or on the phone: Jamie Adorhold, Aqualytical Bruce Agee, Dept. of Water Resources Brock Bernstein, Consultant to SWRCB Dennis Bowker, Consensus Process Design Rich Breuer, Dept of Water Resources Syd Brown, CA State Parks Dept (phone) Pete Cafferata, Cal Fire Scott Clemons, Dept of Fish & Game Carol DiGiorgio, Dept of Water Resources Mark Emmerson, CA Dept of Public Health Maurya Falkner, State Lands Commission Terry Fleming, USEPA Cindy Garcia, Dept of Water Resources Karen Gehrts, Dept of Water Resources Jack Gregg, CA Coastal Commission B.G. Heiland, Dept of Water Resources

S. Heminwey, Dept of Water Resources Reiner Hoenicke, SF Estuary Institute Elizabeth Hubert (phone) Gail Kuenster, Dept of Water Resources (phone) Karen Larsen, State Water Board Brian Lewis, Dept of Toxic Substances Control Tom Lupo, Dept of Fish & Game Jon Marshack, State Water Board Dean Messer, Dept of Water Resources Anke Mueller-Solger, Delta Stewardship Council Eric Oppenheimer, Dept of Water Resources Bill Orme, State Water Board Greg Smith, Dept of Water Resources Eric Stein, SCCWRP Meghan Sullivan, Central Valley RWQCB

ITEM:	1	
Title of Topic:	INTRODUCTIONS AND HOUSEKEEPING	
Purpose:	<ul><li>(a) Introductions</li><li>(b) Review notes from June 9, 2010 Council meeting</li><li>(c) Review agenda for today's meeting</li></ul>	
Desired Outcome:	<ul><li>(a) Approve June 9, 2010 Monitoring Council meeting notes</li><li>(b) Preview what will be presented today and overall meeting expectations</li><li>(c) Adjust today's agenda, as needed</li></ul>	
Attachments:	Notes from June 9, 2010 Council meeting	
Contact Person:	Jon Marshack	jmarshack@waterboards.ca.gov, 916-341-5514
Decisions:	June 9, 2010 meeting notes approved without further edits	

ITEM:	2	
Title of Topic:	ANNOUNCEMENTS AND UPDATES	
Purpose:	<ul> <li>(a) State budget update (Jonathan Bishop, Dale Hoffman-Floerke) no update</li> <li>(b) Healthy Streams Partnership update (Val Connor)</li> <li>(c) Comprehensive Monitoring Program Strategy update (Brock Bernstein)</li> <li>(d) SWAMP Strategy and Assessment Framework update (Karen Larsen, Brock Bernstein)</li> <li>(e) Portal Development Update (Jon Marshack)</li> <li>(f) CEDEN update (Karen Larsen)</li> <li>(g) Rapid bacterial indicator tools and Orange County test (Steve Weisberg) not discussed</li> </ul>	
Desired Outcome:	<ul> <li>(h) Riparian mapping for Central Valley Flood Protection Plan (Eric Stein)</li> <li>(a) Information</li> <li>(b) The Monitoring Council urges the Department of Water Resources (DWR) to use the WRAMP riparian area definition and mapping method/tool.</li> </ul>	
Background:		

	<ul> <li>supported and/or restored. Because the functional riparian zone is often wider than the vegetated area, using this broader definition allows managers to more easily balance support of both flood control and ecological goals.</li> <li>If DWR includes use of the WRAMP riparian mapping tool in its work for the CVFPP, the resulting riparian area data will be directly usable by other member organizations within the CWMW and will be consistent with the riparian definition in the Water Board's Wetland and Riparian Area Protection Policy. It will also support implementation of the WRAMP as directed by the Water Quality Monitoring Council. Inclusion of the WRAMP riparian mapping tool would be compatible with the approach currently proposed by CSU Chico in that it would overlay and be supported by the CSU Chico vegetation mapping. By using the new tool along with the vegetation mapping, DWR would be the first agency in the State to implement what is likely to become the new statewide riparian mapping standard.</li> <li>Eric Stein, Co-Chair of the Wetland Monitoring Workgroup will ask that the Monitoring Council urge DWR to use the WRAMP riparian area definition and mapping method/tool.</li> </ul>		
Attachments:	(a) June 22, 2010 Letter to California Wetland Monitoring Workgroup on WRAMP Implementation		
	(b) <u>Central Valley Flood Protection Riparian Mapping: Opportunities for</u> <u>Collaboration</u> - presentation by Eric Stein		
Contact Person:	Jon Marshack jmarshack@waterboards.ca.gov, 916-341-5514		
Notes:	<i>Healthy Streams Partnership</i> – This initiative is to include identification of clean streams and methods to protect them, identification and restoration of impaired streams. Dennis Bowker (consultant) is providing outreach. Report due at end of 2010.		
	<b>Comprehensive Monitoring Program Strategy</b> – Brock Bernstein submitted edited version to Jon Marshack. Final draft to Monitoring Council for review in a few weeks.		
	<b>SWAMP Strategy and Assessment Framework</b> – final draft due in August; complete in September; will be appended to Monitoring Council's strategy according to prior direction.		
	<b>Portal Development</b> – Healthy Streams portal mockup approved at last Council meeting. Draft Safe-to-Drink groundwater portal due from consultant very soon; will be send to Monitoring Council for review as needed. Funding for initial Rocky Intertidal portal development obtained; scope of work sent to Cal State Fullerton; workgroup meeting being arranged to develop questions. Jonathan Bishop recommended that the monitoring enterprise for the Marine Life Protected Areas (part of Ocean Science Trust) be involved in Rocky Intertidal portal. New BeachWatch database nearing completion; will improve data flow from coastal county health agencies to Safe-to-Swim portal. Jon Marshack to make presentation on Monitoring Council and portals at California and World Ocean Conference in San Francisco in early September. Revised California Wetland Portal to be developed that more closely matches format of Safe-to-Swim and Safe-to-Eat portals. Discussions being conducted with Delta Regional Monitoring Program, SF Bay Regional Monitoring Program, and Interagency Ecological Program to form a new workgroup focusing on developing a California Estuaries portal that initially focuses on the SF Bay-Delta Estuary; presentation		

	to Delta RMP stakeholders tomorrow; formal proposal to be presented to Monitoring Council at future meeting.	
	<b>CEDEN</b> – Internal launch to Water Board staff occurred in June; public launch and webinar demonstration scheduled for August 24; all Regional Data Centers currently exchanging data with CEDEN.	
	<b>Riparian mapping for Central Valley Flood Protection Plan</b> – see Eric Stein's presentation. The goal is to map more than riparian vegetation, including habitat and other riparian functions. Use of common tools and approaches provides opportunities to partner with other existing programs, thereby adding value. Dave Boland asked whether the State Water Board needed to adopt a riparian definition to guide riparian mapping. Eric responded that the mapping of riparian functions is not dependent on any particular definition; maps would help to inform policy development. The same is true with respect to the definition used by the Army Corps of Engineers. Scott Clemons, CDFG, indicated that the Riparian Joint Venture is partnering with CDFG and Chico State for the mapping and the contract runs through March 2011; but an interim product may come out earlier. Central Valley maps being developed will be served up on the California Wetlands Portal. Dale Hoffman-Floerke indicated that DWR staff is interested in the WRAMP mapping tool and there appear to be no obstacles to using it. The report is due January 1, 2012. Longer-term, more fine-scale mapping may be a better place to incorporate the WRAMP mapping tool. Tom Lupo of CDFG indicated that while the WRAMP mapping tool is complementary with CDFG's current vegetation mapping program, questions still exist regarding methodology and classification, particularly with respect to habitat for sensitive species.	
Decisions:	(a) Karen Larsen will become Jonathan Bishop's Alternate when Val Connor leaves the Water Boards.	
	(b) The Monitoring Council supports the use of the WRAMP riparian mapping tool by the Natural Resources Agency in development of the Central Valley Flood Protection Plan.	

3 NATURAL RESOURCES AGENCY MONITORING, ASSESSMENT AND REPORTING PROGRAMS	
<ul> <li>Introductory remarks - Dale K. Hoffman Floerke, Dept. of Water Resources</li> </ul>	
<ul> <li><u>California Coastal Commission</u> – summary by Jack Gregg, California Coastal Commission</li> </ul>	
<ul> <li><u>Overview of Federal Programs</u> – presentation by Dennis Bowker, Consensus Process Design</li> </ul>	
<ul> <li><u>Imperial Valley Spatial Data Infrastructure Site</u> – presentation by Dennis Bowker, Consensus Process Design</li> </ul>	
<ul> <li><u>Monitoring Study Group</u> – presentation by Pete Cafferata, Dept. of Forestry and Fire Protection</li> </ul>	

•	Biogeographic Information and Observation System (BIOS) – presentation by Tom Lupo, Dept. of Fish and Game
•	Interagency Ecological Program for the San Francisco Estuary – presentation by Anke Mueller-Solger, Delta Stewardship Council
•	Interagency Ecological Program Data Access – presentation by Rich Breuer, Dept. of Water Resources
•	Environmental Monitoring Program: D-1641 Compliance – presentation by Karen Gehrts, Dept. of Water Resources
•	Municipal Water Quality Investigations Program – presentation by Eric Oppenheimer, Dept. of Water Resources
•	State Water Project Operations & Maintenance Water Quality Data & Where To Find It – presentation by Cindy Garcia, Dept. of Water Resources
•	DWR Water Data Library – presentation by Bruce Agee and Greg Smith, Dept. of Water Resources
•	Water Planning Information Exchange – presentation by Greg Smith, Dept. of Water Resources
•	<u>California's Marine Invasive Species Program</u> – presentation by Maurya Falkner, State Lands Commission
•	Bond Accountability Database – presentation by Dennis Bowker, Consensus Process Design
•	Ocean Protection Council – presentation by Dennis Bowker, Consensus Process Design
•	West Coast Governor's Agreement On Ocean Health – summary by Dennis Bowker, Consensus Process Design
•	Bay Conservation and Development Commission – summary by Dennis Bowker, Consensus Process Design
Mo da	scussion of which of the above programs could coordinate with the onitoring Council and existing or new theme-specific workgroups to make ta and information available through the My Water Quality portals. uestions for the Council to consider include:
•	What themes and sub-themes should be addressed by Natural Resources Agency programs?
•	How dependent or independent are these from other sub-themes?
•	Who are the key players?
•	Are there established work groups for these data?
•	What are the low-hanging fruit?
•	What kinds of data should be included (water quality, ecosystem)?
•	How are monitoring data and assessment information managed and delivered to decision makers and the public?
•	What are the benefits for the programs in the Natural Resources Agency to fully participate with the Monitoring Council and workgroups
(c) Ne	ext steps
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Desired Outcome:	Direction on how these Natural Resources Agency programs could coordinate with the Monitoring Council and its workgroups.	
Background:	Early Monitoring Council efforts have focused heavily on Water Board and SWAMP monitoring and assessment programs. Greater coordination with and participation of programs within the California Natural Resources Agency would further implement the mandates of SB 1070.	
Attachments:	(a) See presentation links in <i>Purpose</i> , above.	
	(b) <u>Monitoring Study Group</u> - handout by Pete Caffereta, Dept. of Forestry and Fire Protection	
	(c) Summaries of other Natural Resources Agency projects	
	(d) Sierra Nevada Adaptive Management Project - handout	
	(e) <u>Water Quality Protection and Nonpoint Source Pollution Control In San</u> <u>Francisco Bay</u> - report by San Francisco Bay Conservation and Development Commission	
Contact Person:	Dale Hoffman-Floerke dalehf@water.ca.gov, 916-654-7180	
Notes:	In her introductory remarks, Dale Hoffman-Floerke said that Natural Resources Agency Secretary Lester Snow was very impressed by the briefing provided to him on the work of the Monitoring Council and the My Water Quality portals. After the briefing, he asked what his agency could do to help this effort. The My Water Quality link button has been loaded on the Natural Resources Agency website and staff is working with individual departmental websites to get the button loaded. <i>(Update: Dept. of Water Resources website now has link.)</i> The presentations on Natural Resources Agency monitoring programs were summaries of each program and did not focus on how they would connect with Monitoring Council workgroups and portals. Dale indicated that more time and	
	dedicated funds would be needed to make these connections. In addition to those programs being presented today (see links above under Purpose), additional programs are outlined in <u>a set of written program summaries</u> .	
	Posted presentations (see links in <i>Purpose</i> , above) cover what was presented by each speaker. Key discussion points are included below:	
	<ul> <li>California Coastal Commission – Little specific monitoring conducted by Coastal Commission. Permitting database does not record monitoring information. 319 nonpoint source monitoring is SWAMP comparable. Information on trash TMDLs (Water Boards) could be linked with coastal cleanup day activities.</li> <li>Federal Programs – USGS is hub for monitoring efforts. National Water Quality Monitoring Council working to standardize methods and share data – SWAMP already coordinated. It would be beneficial for SWAMP to get involved in National Environmental Methods Index (NEMI). Federal agencies are looking for collaborative partners.</li> </ul>	
	<i>Imperial Valley Spatial Data Infrastructure Site</i> – ESRI donated ArcGIS licenses for this project. Connects to multiple data sets. Data are SWAMP comparable. Site could be model for state watershed website.	
	CalFire Monitoring Study Group - Caspar data available on line. Most	

r	monitoring information is in reports, not live data.
	<b>Biogeographic Information and Observation System (BIOS)</b> – High emphasis on data management at Calif. Dept. of Fish & Game (CDFG). Data creator still owns data, determines who has access. BIOS = State's clearinghouse for biological data with species and habitat focus. Started for DFG, but other organizations (USGS, conservancies, counties) are players. System is open to collaboration. BIOS is permanently funded. Working toward shared map services.
e 1 5	<b>CDFG Vegetation Mapping</b> – Goal is multi-use authoritative datasets to serve everyone. Classification standard = Manual of California Vegetation, 2nd Ed. 1/3 of state currently mapped. Through Central Valley Flood Control Plan, Sacramento Valley to be mapped by Riparian Joint Venture through Chico State University with grant from Strategic Growth Council.
E E ti a C	Interagency Ecological Program – Estuaries portal is where they fit, along with Delta Science Program, Delta Stewardship Council, and Independent Science Board. Drivers for IEP are water rights and endangered species. Focus is ecosystem. Have 40 years of data – heterogeneous (biota, water quality). Real time data in California Data Exchange Center (CDEC). Challenges are QA/QC and metadata. Data conversion project moving from Access to Oracle. Opportunity to link to CEDEN. Potential places to plug in are ecosystems and stressors; need to know what questions IEP is addressing.
2 t	<b>Environmental Monitoring Program</b> – 42 years of data (CDFG, USBR, DWR); 2 websites; metadata links. Need to move from ecosystem health status and crends to better collaborative analysis, data visualization, repot card. Mandate to conduct biological monitoring to support water pumping by DWR and USBR.
t c fr	<b>Municipal Water Quality Investigations Program</b> – Over 20 years of delta and tributaries monitoring data in support of State Water Project and water utility customers; drinking water focus. Developing real-time network and ability to forecast. Data to CDEC. Website updated daily. Could fit with Safe-to-Drink portal – source water; also in estuary workgroup.
s F	<b>State Water Project Operation &amp; Maintenance</b> – Water contractor needs drive system – daily dispatchers report. Data to CDEC and Water Data Library. Project to convert old paper data to electronic format in Water Data Library – trend analysis value.
	<i>Water Data Library</i> – Oracle-based. QA/QC and metadata not available through public side of system. May not be SWAMP comparable.
F	<i>Water Planning Information Exchange (Water PIE)</i> – Driver is California Water Plan. Integrated Water Resource Information System (IWRIS) in beta prototype; currently being re-built with web services.
v	<i>Marine Invasive species Program</i> – Stressors, vectors, vessel tracking, ballast water management. Data in on-line reports. Raw data available through staff contact.
t	<b>Bond Accountability Database</b> – Tracks all projects that are funded by bonds through the Resources Agency. Contract determines how data managed and weather monitoring is done. Bond Management System being tested at DWR.
	<b>Ocean Protection Council</b> – Do not collect data directly. Fund monitoring programs of others through USC Sea Grant Office.
E	Bay Conservation and Development Commission – Do not collect data.

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	OPC, BCDC, and Coastal Commission involved in low-impact development (LID), stormwater management, and sustainable development.	
	General Discussion –	
	Funding and statutory mandates drive current efforts. Can we improve monitoring programs through collaboration? Workgroup participation is key. pilot project on data management could help move things forward.	
	Data from Natural Resources Agency sources are not necessarily used in curre 303(d) listing process by Water Boards; Natural Resources Agency data would make listings more robust; may be better to focus such an effort on 305(b) assessments.	
	<ul> <li>Three levels of difficulty integrating new data into portals:</li> <li>(1) easiest = data that fits existing portal but unrelated to currently displayed information and would not be hard to integrate – add links to questions about the new data;</li> <li>(2) coordinating data from other agencies to create new portals;</li> <li>(3) hardest = adding data not directly related to water quality (e.g., biota or stressors)</li> </ul>	
	Value of data should also be a driver on which data sets to integrate first.	
	Workgroups should be tasked with prioritizing which data to integrate.	
	Need service oriented structure to data management.	
	Some indicators transcend water body types – salmonids, wetlands – and could act as linkages.	
Decisions:	(a) Need linkage between BIOS and CEDEN.	
	(b) Need consistency in approach between ecosystem health workgroups regarding how chemistry, biota, and habitat information are presented – minimum data needed for "healthy" determination.	
Action Items:	(a) Additional presentations on Natural Resources Agency monitoring programs to be included in future Monitoring Council meetings in Sacramento.	
	(b) Create linkage between the Safe-to-Swim portal and coastal trash cleanup activities of the Coastal Commission.	
	(c) Dennis Bowker will attend next meeting of CalFire Monitoring Study Group on September 21 in Willits.	
	(d) Jon Marshack to work with Tom Lupo to explore coordination between workgroups, portals and BIOS. Include Tom in Healthy Streams Partnership workgroup.	
	(e) Add State Water Project (quality of source water) and groundwater elevation data to Safe-to-Drink portal. Invite DWR and others to come to GAMA portal presentation.	
	(f) Conceptualize ecosystem health theme for next meeting – how do they all fit? Outline strategy/approaches to integrate biological monitoring components into ecosystem health workgroups. Portal navigation and workgroup interaction.	
	(g) Don't stop work on Healthy Streams and estuaries workgroups.	
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(h) Have Water Board Assessment Unit make presentation on integrated re		
and process at future Monitoring Council meeting.		

ITEM:	4		
Title of Topic:	MEETING WRAP-UP		
Purpose:	<ul><li>(a) Summarize meeting</li><li>(b) Plan agenda for next Monitoring Council meeting on October 13, 2010 in Costa Mesa</li></ul>		
Desired Outcome:	Develop agenda items for October 13 meeting		
Contact Person:	Jon Marshack jmarshack@waterboards.ca.gov, 916-341-5514		
Notes:	Monitoring Council members pleased with meeting. Cross agency integration is beginning.		
Decisions:	<ul> <li>Future Monitoring Council meeting topics identified:</li> <li>Additional Natural Resources Agency presentations</li> <li>Strategy for ecosystem health workgroup and portal integration</li> <li>303(d)/305(b) integrated assessment – process and data use</li> </ul>		

August 30, 2010 Approved October 13, 2010