



**CSMW Meeting Minutes**  
**25 January 2012**  
**9:30 AM – 1:00 PM**  
**SF District Office**  
**1455 Market Street**

**STILL PENDING:**

- ✓ **Chris** – Will reconvene the PPR sub-committee to discuss the RSM Top Ten Recommendations. ONGOING
- ✓ **Susie/Heather** – Will reconvene the Corps' PPR sub-committee to discuss Federal actions. ONGOING – will follow the general sub-committee meeting
- ✓ **Nate** – Check on progress of posting of JALBTCX LIDAR data to NOAA website so others can access. ONGOING – 2009 JALBTCX CA LIDAR not yet posted.
- ✓ **Nate** – Conversion of USACE reference database for incorporation into CSMW's searchable Access Database. ONGOING – completion expected in a few weeks.
- ✓ **Chris** – Add new agenda item for July meeting to have a discussion on disposal methodology (running into problems with disposal, particularly in the North Coast area) – ONGOING – Chris will add to a future agenda
- ✓ **Brad or Phil King** Give a presentation on the economic analysis of the Southern Monterey Bay study – PENDING – Will be placed on future agenda.
- ✓ **Chris** – Follow-up with SWRCB regarding classification of clean sediments as pollutants in CA – ONGOING - Email exchange with George and Eric – will revisit in the future with a presentation when new State Board representative is identified by Jon Bishop.
- ✓ **Chris** – will make contact with the PIER group – Chris made contact and scheduled meeting. STILL PENDING
- ✓ **Susie/Heather** – talk with SPL and SPN Regulatory – STILL PENDING
  - Coordinate with the DMMT and DMMO – can we get more involved?
  - DMMT is concerned with the timeframe that they hear about Corps projects (too close to project time).
  - All projects (including Corps projects) must go through the DMMO, but that is not true with the DMMT.
  - Brian Ross thinks SPL Navigation needs to work more closely with SPL Regulatory.
  - DMMT Meetings held at same time as CSMW Meetings.
- ✓ **George Nichol** will look into the Noyo issue of inert vs. designated waste – STILL PENDING. **Brian Ross** will follow up with the State Board. **Chris** to speak with John Bishop.
- ✓ **Steve** Will send contact info for Solana Beach to ERG to include litigation examples. STILL PENDING.
- ✓ **Chris** – Will set up a sub-committee to address Crescent City Marsh issues. – - ON GOING.



## **COMPLETED ITEMS:**

- ✓ **Nate** contact Cliff to confirm the status of Coastal Armoring Layer on Webmapper – COMPLETE. Current shapefile is most recent but Mark Johnsson indicating that new staff might possibly be acquired to update it in the future.
- ✓ **Chris** will follow up with George on West Coast RSM Authority.

## **NEW ACTION ITEMS:**

- ✓ **All** – Send agenda recommendations for February meeting to Chris.
- ✓ **Brenda** - review Redwood City case study
- ✓ **George** - review Pacifica case study
- ✓ **Chris** – follow up with OPC staff re: the applicability of the NSMS to the NOP Implementation Plan
- ✓ **Corps** – follow up with Susan Brodeur re: CSMW public meeting at H2O.

### ❖ **Welcome & Introductions – George Domurat and Chris Potter**

### ❖ **Review of Meeting Minutes from 10/18/11 – Chris Potter**

- Meeting minutes from 10/18/11 adopted.

### ❖ **Update and Discussion: Draft report on the social and economic effects of shoreline erosion and accretion for the state of California (Jeff Adkins, NOAA and Arleen O'Donnell, Eastern Research Group)**

- This report is the Economic Component of the Regional CA Study that gets placed into the larger NSMS Study. Arleen and Jeff are hoping to capture any CA-specific issues and obstacles from the group.
- Primary Objective of this report draft is to present economics only and provide recommendations.

*Comment:* Excluding Environmental aspects?

*Response:* Yes

*Comment:* Excluding Social aspects explicitly?

*Response:* They are implicitly included.

*Comment:* We want all aspects (Env., Social, Geomorphologic, etc.) included in the overall analysis if possible.

- Rachel Grandpre will be receiving Env. section soon and will be incorporated. All pieces of report are currently underway. ERG is further along than most other analyses and presenting now as result. All work products for larger report should be completed by end of 2012 and products available by Spring 2013.
- CA and Great Lakes Regions of the NSMS to be completed in 2011-12.

*Comment:* Will Env. Report calculate benefits and cost as well?



*Response:* Update will be rec'd on Friday from Env. report preparers. Costs and benefits may be best-suited for Econ-Social Analysis report. There are several sources of this data including TA&M, Duke University, etc.

*Comment:* Could info be taken from NERDA studies following disasters and hazards?

*Response:* Possibly.

- The Report will focus on beach nourishment and economic value of beaches and incorporate extrapolations from case studies for econ and social effects. Arleen and Jeff request listed case studies be reviewed.
- CA Unique Features: Bay settings very important in CA. Chesapeake Bay erosion issues may not be as great as CA.

*Comment:* Surfing concerns in CA not greatest but surfing movement started in CA.

*Comment:* We could look at benefits-costs more of surfing.

*Comment:* May not want to single out surfing but could include it in a general recreational use section.

*Comment:* Armoring shouldn't be listed first in report but it seems there is more armoring than beach nourishment activity in CA.

*Comment:* Most armoring is privately funded.

*Comment:* What's breakdown of Federal/Private cost info for armoring?

*Response:* CALTRANS should have most armoring data and SPL and SPN have some as well. SPL has Solana Encinitas costs of seawalls.

- ERG needs armoring costs from the group to supplement beach nourishments costs.

*Comment:* Shore parallel backbeach armoring benefits in report?

*Response:* It may be risky to state those benefits.

- Feb. 7<sup>th</sup> deadline for comments.
- Artificial reefs removed from report but could use a case study.
- CSMW Meetings are unique to CA.

*Comment:* Group agrees a range of costs is better for armoring in the report. Armor costs are very site specific in CA.

*Comment:* OMBIL data not reliable. Contractors now using it so in last 2-3 years it's mandated to be updated by USACE HQ. Corps has updated #'s but it hasn't been put in OMBIL. Bob Leitch at HQ has data. OMBIL may have distinguished between type of sand activity.



*Comment:* Mob/Demob should be broken out or attributed.

*Comment:* Preliminary RBSP II costs should be entered in report.

*Comment:* An "After" Picture of Surfers Beach Managed Retreat would be beneficial for the report.

*Comment:* Restriction of sediment due to damming, development etc. is huge issue here.

*Comment:* Is National Ocean Policy Report integrated with this report in any way?

*Response:* Not currently.

*Comment:* NSMS looks back at Econ impacts and not as much forward as far as costs, which would be beneficial.

*Comment:* Are we doing enough to forecast based on erosion needs and effects?

*Response:* Yes, it's a nowcast that we want to quantify if possible.

*Comment:* SLR could have more impact regardless of storm increases and vice versa (i.e. we can say SLR will have a certain impact but this is sometimes exclusive of climatological impacts where short-term events can be more catastrophic locally than a long-term SLR prediction).

*Comment:* We've lost out in keeping up with sediment deficits.

*Comment:* Homeowners should be part of LCM Plans.

*Comment:* More sediment placement could curtail armor needs but sand won't stay everywhere it's placed and not all sites are suited for nourishment, such as high energy bluff settings with limited historical sediment supply/containment.

*Comment:* 75% of CA coast is eroding.

*Comment:* Can this study be aligned with the West Coast Gov.s' Agreement?

*Response:* Yes, they're looking for Econ Data and are steering efforts as part of the WCG Alliance to include more RSM efforts.

*Comment:* Coastal Conservancy could have data for Env. aspects.

*Comment:* Responses to Long-term vs. short term erosion incorporated in report?

*Response:* Responses are different and vary with implications.



- ERG interested in hearing of any obstacles for RSM we've experienced in CA.

*Responses:* Spending money for various placement options and from different funding agencies presents a roadblock as we seem to often not find an entity willing and able to provide sufficient funds for the incremental costs of preferred and/or RSM-recommended placement. USACE placement options are primarily fully Federal-funded channel maintenance activities following the Navigation protocol of least cost disposal. CSBAT implemented by CSMW to address this issue. San Diego Harbor Dredging and Imperial Beach an example where costs skyrocketed when the Corps examined placing at Imperial Beach, and local entity could not fund.

*Comment:* SANDAG Quality of Life Measure will increase sales tax to pay for beach nourishment as well as 3 other benefits.

*Comment:* 15% Local match is often too high for localities.

*Comment:* Maintenance of Sea Walls etc. costly as well and could be quantified under Armoring Costs.

*Comment:* Was CA Coastal Commission Sand Mitigation Fee incorporated and how did CCC calculate?

*Response:* CCC estimates lost cost of sand due to construction but no study available. Project permit fees based on project cost.

## ❖ **Updates: Federal Agencies**

### **Army Corps, LA District (Susie Ming and Heather Schlosser)**

- CA Sediment Master Plan
  - LA RSMP Draft will be released to CSMW Group soon.
  - OC RSMP Admin. Draft Completed and to be released soon.
  - Eureka RSMP: Draft complete and awaiting CCC comments.
  - Biological Impacts Analysis: Peer Review will be performed by the Ocean Science Trust and then we'll be able to determine a plan to finish the document.
  - Public Meetings will hopefully be scheduled this year, maybe one at H2O.
- Ringe and Malibu Dam Studies determining fate of sediments – beach quality and disposal
- San Clemente Shoreline Feas. Study: Dec. 9 rec'd conditional Consistency Determination from CCC. Currently finalizing Chief of Engineer's Report.
- No updates on Dredging Projects but MDR, San Diego, etc. will be updated at February meeting.
- Solana Encinitas Shoreline Feas. Study: Draft Alternative Formulation Briefing (AFB) Report to be released in Oct. 2012.



*Comment:* Navigation Business Line POC from both Districts should be at future meetings for Nav. Updates.

*Comment:* Where will Matilija Dam material go, both suitable for beneficial reuse and unsuitable?

*Response:* Material behind Dam not all suitable, 1/3 is. Study was on hold for 1 year due to Non-Fed funds issue of funds being tied up at State Parks (Sponsor). There is a Technical Advisory Committee meeting tomorrow and updates to follow at future meetings.

- FY12 Federal Funds not appropriated yet but Master Plan, Solana Enc. And Malibu Creek have been identified in Conference Report as receiving funds.

### **Army Corps, SF District (Tom Kendall / John Dingler)**

- Crescent City update provided by Chris Potter
- Ocean Beach: SF District examining new placement site.
  - SF 17 new site encompasses Demo. Site used since '06 providing larger footprint than SF8 which has been shoaling and has unsafe areas. SF 17 Water Depth ranges from 15-50 feet.
  - Essayons can work in ~30 feet at shallowest.
  - SWOO (SouthWest Ocean Outfall) gets exposed and we want Essayons to place sand on top to cover it. Joint EA with EPA will be reviewed.
  - Could also build dune with a 1:3 slope with 140' width and 4,000' long.
  - Section 2037 says not to exceed \$5M and could complete in >1 year but working for greater than a year seems cost-prohibitive, etc.

*Comment:* Is sand coming out of Bar?

*Response:* Yes.

*Comment:* Not out of channel?

*Response:* Sand is coming out of the Nav. Channel that cuts through the Bar.

- 65%/35% incremental cost split being used with Sponsor.

*Comment:* Beneficiary is SF PUC (San Francisco Public Utilities Commission) not Park Service.

*Comment:* We want to solve problem by covering with sand.

*Comment:* Shouldn't this be 100% Federally funded?

*Response:* No, Park Service didn't request it so we can't rely on them for funds.



*Comment:* Any objections from NPS?

*Response:* No.

*Comment:* Park Service is anxious to see EA but no comments yet.

*Comment:* Fari Tabatabai says the EA will be out by the end of this week.

*Comment:* Funding all Corps or Park Service? Is Assateague National Seashore project similar?

*Response:* Assateague is Beach Nourishment.

- Pillar Point: Review in a few months.
- Humboldt Channel Dredging needs Consistency Determination from CCC. In Bay erosion issues and question of why material going to HOODS.

#### ❖ **Updates: State Agencies**

- Boating and Waterways (Kim Sterrett)
  - SANDAG RBSP II rec'd 4 bids, will accept lowest. Very high proposal costs due in part to high mob/demob costs.
- Coastal Commission (Lesley Ewing / Mark Johnsson)
- Eureka/Humboldt Harbor DMMP being worked on for managing sediment. Approaching internal reviews and using new nearshore site. Renewing 5-yr programmatic EA.
  - Deepening channel may have caused erosion but no study to confirm. Need to confirm.
  - Don't have equipment to place sand in Bay
  - Big Question: CCC Hearing will be delayed for a month due to questions. This year plans call for using the 1-yr nearshore site, next year initiate 5-yr EA.

*Comment:* DMMP include other sites within Bay?

*Response:* No, only nearshore site.

*Comment:* We should not eliminate any potential placement sites in future.

*Comment::* Immediate plan being reviewed didn't contain details of options for In-Bay and nearshore disposal together.

*Response:* Need to discuss more in terms of beneficial reuse.

*Comment:* 1.5 M CY/yr historically dredged and taken to HOODS causing erosion of North Spit.

*Comment:* Env. constraints for placing material on North Spit?

*Response:* High wave climate causes shoaling and minimal dispersal.

*Comment:* Issues historically are keeping material in nearshore and also issues with crabbers. Need to spread in a thin enough fashion over a much broader area.

*Comment:* Why couldn't we pump material onto the beach?

*Response:* Entire shoreline could be rotating where the Northern shoreline eroding and south accreting. Not comfortable saying HOODS will have any beneficial reuse benefits but it keeps it in littoral zone.

*Comment:* Columbia River (OR) placement methodology?

*Response:* They used the Essayons to pump to nearshore.

- BCDC (Chris Potter for Brenda Goeden)
  - Voted on approval for Coastal Impact Assistance grant for SF Bay RSMP preparation.
  
- USGS (Jon Warrick)
  - Jon meeting with agencies tomorrow for Tijuana Study and preparing fact sheet. Please submit comments.
  - Dam Removal: Jon worked on Elwha Dam Removal in WA and was subsequently involved in the Condit Dam (WA) Removal, which has been authorized but over budgeted and looking for new options.
    - Jon could provide presentation on Dam Removals for Matilija, Ringe, etc.
  - Paper summarizing the state of our knowledge of Ocean Beach physical processes, based on last 8 years of USGS research, was just accepted for publication in the Journal of Coastal Research. Will be circulated to CSMW once a proof is made available. Paper titled "Synthesis Study of an Erosion Hot Spot, Ocean Beach, CA."
  - A team led by the USGS (PI: Barnard), including PRBO Conservation Science and NOAA Gulf of the Farallones National Marine Sanctuary, just received a grant from the National Estuary Research Reserve (NERR) to assess the physical and biological impacts of climate change on San Francisco Bay. The study timeline is from November 2011 to 2014. This work will extend the prior work of Noah Knowles and others through the following additions and improvements:
    - Modeling and flood extents based on a seamless bathymetric-topographic digital elevation model produced by the EROS data center (USGS).

- Vertical land motions will be incorporated and applied to the digital elevation model for more accurate prediction of future flood extents, e.g., subsidence, intra-seismic and co-seismic motions.
  - Flood flows will be explicitly modeled beyond the Bay shoreline, not just a bathtub flooding model.
  - Local wind waves will be included by downscaling of global climate models, thereby including the contribution to flooding from wind setup and wave run-up from locally generated waves.
  - The penetration of open coast swell into San Francisco Bay will be modeled.
  - The additional impact of Delta discharge on total Bay water levels, which will have the most noticeable impact on Suisun and San Pablo Bays.
  - This effort will complement the current project focused on the impact of climate change along the adjacent outer coast, called Our Coast-Our Future (OCOF), which will be completed by the end of 2012.
- A seamless bathymetric-topographic Digital Elevation Model (DEM) for all portions of the San Francisco Bay area below +20 m, using the latest multibeam bathymetry and topo. Lidar will be available by the end of 2012. The data will provide the most comprehensive and sophisticated elevation surface for a number of applications, including hydrodynamic modeling and future flooding assessments..

❖ **Project Manager's Report (Clif Davenport, CGS)**

- Clif's CSMW project priority rankings released and prioritized based on Master Plan Team voting. Immediate Category tasks highest priority: SM Bay RSM EA Proposals, Webmapper, LA Co. RSMP, SF Coast RSMP set up with ABAG/SFEP, Update CSMW Homepage. Secondary, long-term, and distant (lowest rankings respectively) priorities identified as well.

❖ **Confirm date, location, and agenda for future meetings**

- Next Meeting: Feb. 22 Conference Call.
  - Possible items: Jon Warrick – Elwha Dam

***Adjourn 12:50 PM***

**NEXT MEETING  
February 22, 2012  
Conference Call**



## CSMW ATTENDEES

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