COASTAL SEDIMENT MANAGEMENT WORKGROUP

Heather Schlosser US Army Corps of Engineers South Pacific Division

Casey Caldwell CA Dept of Parks and Recreation Division of Boating and Waterways





SOLUTIONS

OVERVIEW

PRODUCTS

REGIONAL SEDIMENT MANAGEMENT PLANS



MISSION



Ο

Ε

R

Ε





California's coastal resources by developing and facilitating regional approaches to managing sediment imbalances

II. WHI

SEDIMENT MANAGEMENT SOLUTIONS

Coastal Sediment Management Workgroup

S

0

U

0

Ν

S





Coastal Sediment Management Workgroup

S

Ο

U

0

Ν

S





5

SEDIMENT MANAGEMENT SOLUTIONS

Coastal Sediment Management Workgroup

S

Ο

U

Ο

Ν

S



Sand Mining moved out of the river (or beach)

SEDIMENT MANAGEMENT SOLUTIONS





Sand lost compensated by placment or fees









Trapped sand transported to erosion concern areas



Report

lanuary 2009

Orange County Coastal Regional Sediment Management Plan

> Prepared for U.S. Army Corps of Engineers County of Orange California Coastal Sediment Management Workgroup

shall all see mater an

Prepared by Everest International Consultants, Inc. In Association with Science Applications International Corporation Dr. Philip King

June, 2013



PWA

CHAIRSON ENTEL BYERDLEEP

COASTAL REGIONAL SEDIMENT

MANAGEMENT PLAN

coastal regional sediment management plan





Coastal Sediment

Management Workgroup

9

i ya









BEACHES, LITTORAL DRIFT, AND LITTORAL CELLS-UNDERSTANDING CALIFORNIA'S SHORELINE

KIKI PATSCH GARY GRIGGS



SEPTEMBER 2006 UNIVERSITY OF CALIFORNIA, SANTA CRUZ CALIFORNIA COASTAL SEDIMENT MANAGEMENT WORKGROUP



Ρ

R

0

D

U

С

Т

S



t Workgroup

FINAL SAND COMPATIBILITY AND **OPPORTUNISTIC USE PROGRAM PLAN** SANDAG 401 B Stree Suite 800

5an Diego, CA 92101-4231

SCOUP

Regional Sand Management Plan

- Protocols for compatibility comparisons, potential sources and receiver sites
- Assess regional approaches for reuse of upland sands
- Roadmap for regulatory consultations









Evaluate the major littoral sediment budgets along the CA coast for guidance on project-based studies

DEVELOPMENT OF SAND BUDGETS FOR CALIFORNIA'S MAJOR LITTORAL CELLS KIKI PATSCH GARY GRIGGS



JANUARY 2007 INSTITUTE OF MARINE SCIENCES UNIVERSITY OF CALIFORNIA, SANTA CRUZ CALIFORNIA COASTAL SEDIMENT MANAGEMENT WORKGROUP







Study: Fate and Transport of Fine-Grained Sediment

Sources, Dispersal, and Fate of Fine Sediment Supplied to Coastal California



Evaluate physical impacts and fate of fine-grained materials within/deposited from turbidity plumes

Scientific Investigations Report 2007–5254 U.S. Geological Survey

RSM GOALS AND STRATEGIES





14



R

S

Μ



- Keep sediments in the system
- Mimic natural sediment processes
- Reduce unwanted sedimentation
- Environmental enhancement
 - Maintain & protect infrastructure





Reduce Runoff







Reduce

Erosion









R S M



- Formulate and seed regional consensus-driven sediment management policy and guidance
- Restore and maintain coastal beaches and other critical areas of sediment deficit
- Reduce the proliferation of protective shoreline structures
- Sustain recreation and tourism
- Enhance public safety and access
- Restore coastal sandy habitats.



R

S

Μ



- An easily readable Plan is important to getting buy-in from the public, local managers and politicians
- Establish an appropriate advisory group at the onset of Plan development
- Regional Authority's Executive Officer needs a funded staff member to effectively manage sediment management activities
- Coordinate with State and Federal Regulatory programs to integrate RSM needs
- Pursue sediment stockpile areas for upland sand (SCOUP)
- Dedicated revenue streams needed





• CSMW as a facilitator for RSM projects

- State currently has funds to implement RSM projects (grants from CNRA and OPC), but need local/regional partners to propose projects and a commitment to manage those projects.
- More State investments coming through Props 84, 1 and 68
- State needs a closer working relationship with local and regional governments (similar to BEACON, Humboldt Bay Harbor District and LA County Beaches and Harbors)
- Sea Level Rise Adaptation Planning RSM is more relevant today than 20 years ago when CSMW was established
- **Demonstration Program in CA** could include:
 - Look at a couple of erosion hot spots and show how to change those areas.
 - Demonstrate soft, hard and hybrid technologies to provide increased resiliency for that area.
 - How could we take what we learn and apply to other areas?
 - Ports and Harbors have the sediment resources that make them key players in these activities.



CSMW Website: https://dbw.parks.ca.gov/?page_id=29239

For more info, please contact:

Heather Schlosser US Army Corps of Engineers <u>Heather.R.Schlosser@usace.army.mil</u>

Casey Caldwell CA Dept of Parks and Recreation Division of Boating and Waterways Casey.Caldwell@parks.ca.gov



