### Proactive Solutions for America's Water Resources Needs: Planning for Tomorrow's Challenges

National Conference on Ecosystem Restoration August 1-5, 2011 Baltimore, MD

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As of 20 May 09

#### **ASA-CW Area of Operations** Seattle Europe Walla-Walla Portland St. Paul Northwestern New England North Mississippi Division Buffalo **Great Lakes Atlantic** Valley & Ohio River Division **Division** New York Sacramen Omaha Rock Island Division Philadelphia Baltimore South San Francisco Huntington Kansas City **Pacific** Norfolk St. Louis Louisville Division Little Rock Tulsa Nashville Los Angeles Wilmington Southwestern Memphis South Albuquerque Charleston **Atlantic Division** Savannah Division Vicksburg Jacksonville Far East Fort Worth Mobile Alaska Orleans Iraq Galveston Gulf Region District Central Japan Key Honolulu Gulf Region District South **Pacific ♦ USACE District** Afghanistan Ocean O USACE Division Afghanistan Engineer District - West OASA(CW) SmithC 8/4/2011 Afghanistan Engineer District - East **Division**

## **Army Civil Works**

Value to the Nation

Recreation areas 376 M Visitors/yr Generate \$15 B in economic activity, 500,000 jobs

400 miles of Shore protection Destination for 75% of U.S. Vacations

8/4/2011

% of Nation's Hydropower: \$500 M + in power sales

power sales

11,000 miles of Commercial Inland Waterways:
½ the cost of rail
1/10 the cost of trucks

299 Deep Draft Harbors



**627 Shallow Draft Harbors** 

Stewardship of 11.7 Million Acres Public Lands 8500 Miles of Levees

Emergency Operations



**Environmental Restoration** 



Regulatory Responsibilities

- US Ports & Waterways convey > 2B Tons Commerce
  - Foreign Trade alone creates > \$160 B Tax Revenues

# **Evolution of Ecosystem Restoration**

- Pre-WRDA 86 flood "control" and navigation dominated.
- ~1986-2001 initial restoration efforts
- ~2002-present –
   implementation
   experience; improving
   science; evolving
   paradigms

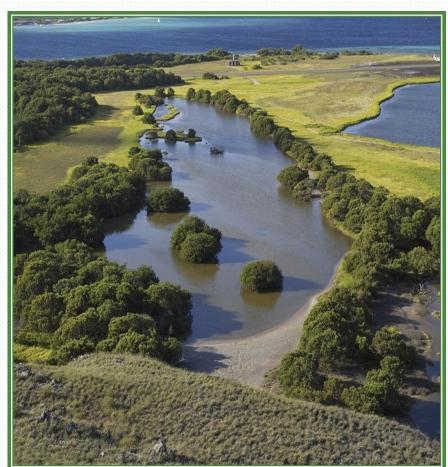






# Environmental Restoration Work Army Corps of Engineers

- Nations leader in environmental restoration and protection
- Ecosystem restoration is a high priority purpose equivalent to historical missions of flood protection and navigation
- Restore ecosystem structure, function, and processes
- As self-sustaining as practicable to reduce O&M and >success
- Single or multiple purpose projects (e.g., flood protection & ecosystem restoration)
- Flexibility to use science and habitat-based evaluations to determine project benefits and impacts
- Sec 204 Beneficial Use of Dredged Material for Ecosystem Restoration
- Sec 206 Aquatic Ecosystem Restoration
- Sec 1135 Project Modification for the Improvement of the Environment
- Specifically Authorized Environmental Projects



### **8 Current Administration Priorities**

(alphabetical order)

- CALFED Bay Delta (San Francisco)
- Chesapeake Bay, MD, VA, PA
- Columbia & Snake River Systems
- Florida Everglades
- Great Lakes
- Gulf Coast
- Puget Sound
- Upper Mississippi River System (IA, IL, MN, MO, WI)
- [Note: Corps added the Missouri and Ohio River Systems to this list]

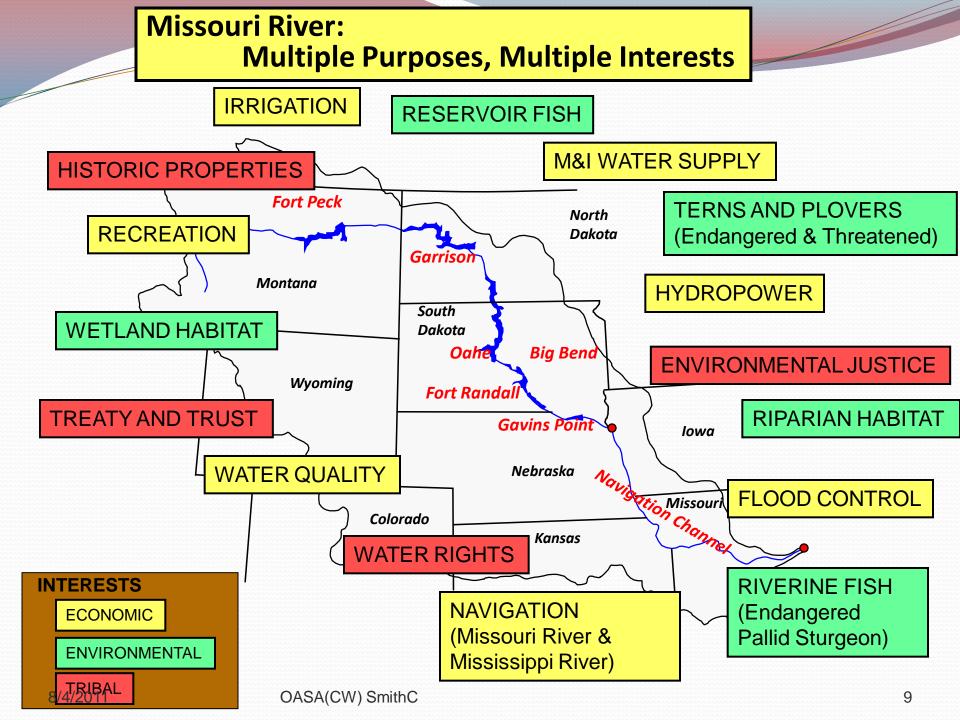


# What Defines the 10 Ecosystems

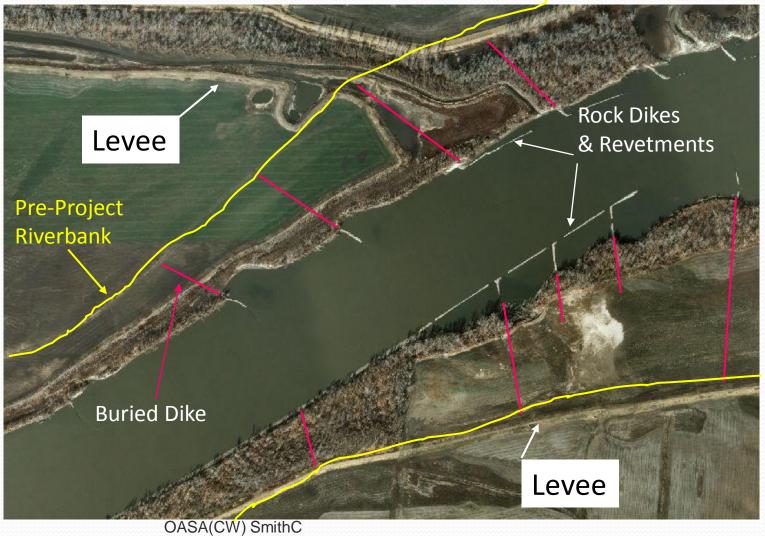
- Indian Tribes (federal trust responsibility & treaty rights)
- Previous manipulation/development = degradation
- Large, multi-jurisdiction ecosystems = finger-pointing
- Citizens, farmers, ranchers, M&I users, businesses, various levels of government = balancing needs
- Myriad key, well-known species, many threatened or endangered, or heading that direction = single species or systems focus?





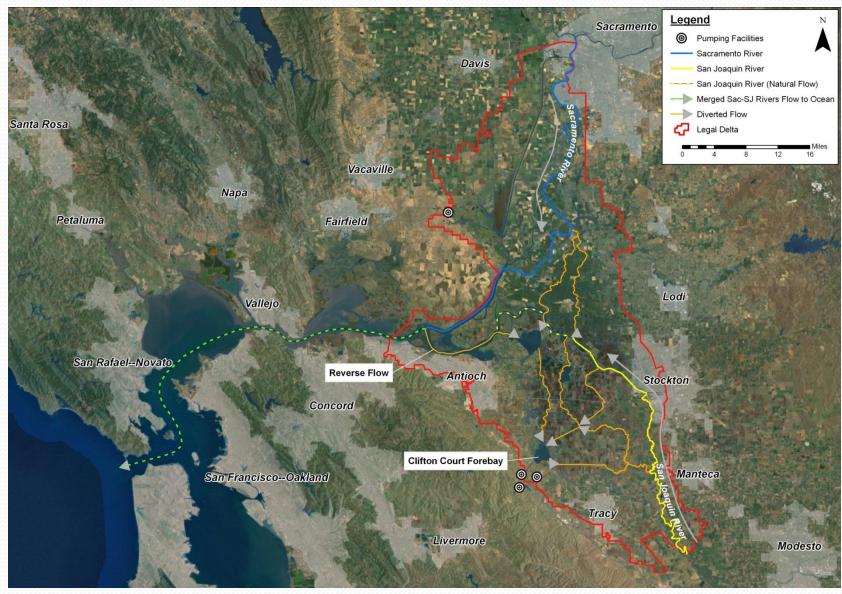


### Lower Missouri River



8/4/2011

# Legal "CA Bay-Delta"



# CA Bay-Delta Federal MOU













- MOU CEQ, DOI, Army, USDSA, Commerce, EPA
- Acknowledges decades of degradation
- Environs a healthy, sustainable ecosystem
- Collaborate with tribal & state gov'ts, stakeholders and NGOs
- Establishes structure for coordinating & streamlining federal actions
- Leadership Committee

# Interim Federal Agency Action Plan, Dec 2009

- Describes federal actions & investments addressing water supply and ecological crises (identify, mitigate stressors, restoration project, fish activities)
- Work closely with State and local authorities
- Promotes science-based decisions & ensure effective performance (BDCP)
- Ensure smarter supply & use of water (permitting & construction)
- Deliver drought relief services & integrated flood risk management (CVIFMS, CALFED Levee Stability Program, Delta Islands & Levees Feasibility Study )



December 22, 2009













Success in the Delta Requires a Systems Approach

## Questions?



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