Why is the Delta so Important – and Why Can't we Fix It?

Keith Coolidge Delta Stewardship Council

Delta Stewardship Council

Feb. 22, 2018

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Today's talk

- Overview of the Delta and why it is so important
- How the Delta has changed consequences of policy choices over time
- Multi-agency approach opportunities and challenges

- In the news what's really going on?
- Dialogue things to think about

California's precipitation variability...



... and population imbalance...



...drove water supply development



Importance of the Bay-Delta

Supplies Bay Area, Central Valley, Coastal areas & Southern Cal

Bay Area - 33%





Some regions up to 100%

dependent

The Delta is a critical hub

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CALIFORNIA

LETTERS E2 DRAWING BOARD E2 VIEWPOINTS ES EDITORIALS EG

Sunday, September 22, 2013 | The Sacramento Bee | 🛞 sacbee.com/californiaforum

Few stories bigger than Delta

WHY WE'RE LOOKING From the Executive Editor AT CONFLICT FROM SEVERAL ANGLES

T t affects the largest estuary on the West Coast of the Amer-L icas. It could harm the oldest known bird species. And, while it is expected to cost a fraction of the price of California's proposed high speed rail line, the \$25 billion price of the Bay Delta Conservation Plan still would make it one of the most expensive state public projects ever.

This immense plan supported by Goy. Jerry Brown would build three new intakes in the Courtland area that would then move water into two 30-mile long tunnels bored 150 feet underground. The construction is intended to protect

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fish species and the estuary that supplies two-thirds of California's water. Perhaps more relevant to some of you are concerns that it would disrupt and change this picturesque recreation, farming and wine region. Or that it could impact this region's animal habitat and water supply.

It's a complicated plan, and the job of The Bee's Matt Weiser is to translate this policy wonk language into stories that matter to VOU.

Few news organizations in California are able to deeply cover public policy issues that affect our lives. Those that do include traditional newspapers such as the Los Angeles Times, San Francisco Chronicle, Stockton's The Record or San Jose Mercury News, all of which have weighed in on the Delta proposal. It's difficult and sometimes tedious work, and it takes years of reporting to build up enough expertise. For us, though, it's a key part of our reporting mission. The tunnel plan falls squarely into reporting areas we emphasize: It's local, it involves a substantial public expenditure that should be scrutinized, and it is one of the most knotty of statewide public policy issues, designed to TERHAAR | Page E2

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ENTERING CALIFORNIA DELTA

















3 Sac River / West Delta

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How Water Gets Across the Delta

1) Sac River – Delta Cross Channel – Mokelumne River Old & Middle Rivers

San

Joaquin

River

SWP Pumps

CVP Pumps

Many forces shaped the Delta



Change in Delta land cover, early 1800s to early 2000s. *Graphic by SFEI-ASC*

[10]



The Changing Delta



- Flood projects dredged waterways & straightened channels at cost to riparian habitat
- Upstream reservoirs added hydropower, flood control and water supply, but blocked fish spawning and changed flow patterns
- Deep-water ship channels opened Central Valley to commerce but led to invasive species through ballast water
- Growth of farming and upstream cities led to increased agricultural and urban pollution



Key Delta risks









(12)

Water Supply Implications

Delta Cross Channel

3 CVP Pumps SWP Pumps





Institutional Complexity

Delta Planning Relationships

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE Ensures state's food safety, protection of state's agriculture from invasive species, and promotes California agricultural industry.

CALIFORNIA EMERGENCY MANAGEMENT AGENCY Coordinates overall state agency response to major disasters in support of local governments.

CALIFORNIA NATURAL RESOURCES AGENCY Protects historical, natural and cultural sites, monitors and controls state lands and water ways, and regulates fish and game use.

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE Maintains native fish, wildlife, plant species and natural communities for their intrinsic and ecological value and their benefits to people.

CALIFORNIA DEPARTMENT OF PARKS AND RECREATION Manages California's state parks.

CALIFORNIA DEPARTMENT OF WATER RESOURCES Responsible for State of California's management and regulation of water usage. State lead for environmental review of BDCP. Lead agency for flood emergency response.

CENTRAL VALLEY FLOOD PROTECTION BOARD Manages flood control along Sacramento and San Joaquin rivers and tributaries in cooperation with USACE.

DELTA PROTECTION COMMISSION Established 1992 and reorganized by 2009 Delta Reform Act as a 15-member planning and regulatory entity. Responsible for protecting and where possible enhancing and restoring Delta environment and making determinations on development in Delta. Provide input on

actions that impact Delta as a place.

DELTA STEWARDSHIP COUNCIL Created by 2009 Delta Reform Act to create and implement a plan to achieve coaqual goals.

SACRAMENTO-SAN JOAQUIN DELTA CONSERVANCY Established by 2009 Delta Reform Act. Leads efforts that advance environmental protection in Delta and economic well-being of Delta residents. Acts as primary state agency to implement ecosystem restoration in Dalta

SAN FRANCISCO BAY CONSERVATION AND DEVELOPMENT COMMISSION

Protects San Francisco Bay and its shoreline, including Suisun Marsh. through San Francisco Bay Plan. MOU with DSC to coordinate on planning and resource management in Suisun Marsh and addressing climate change.

STATE WATER RESOURCES CONTROL BOARD State's principal water resources regulatory agency. 2009 Deits Reform Act requires that SWRCB develop new flow criteria for Deita, appoint Delta Watermaster, and implement enhanced Statement of Water Diversion and Use Program for Delta diverters.

U.S. ARMY CORPS OF ENGINEERS Investigates, develops and maintains nation's water and related erwironmental resources. Maintains, regulates, and funds repairs to almost 400 miles of Delta levees. Multiple programs addressing Delta-related flood management issues. Plans to be considered by DSC. INCEPENDENT SCIENCE BOARD DELTA SCIENCE PLAN

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DELTA MULTI-HAZARD

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Future of the Delta Plan

The final Delta Plan was adopted by the Delta Stewardship Council in May 2013. The 2009 Delta Reform Act requires state and local actions that fit legal definition of a covered action be consistent with Delta Plan policies.

Covered Actions

Mechanism for enforcement of Delta Plan policies over state and local actions. Local and state agencies proposing a plan, project, or program that fails under Delta Plan's "Covered Actions" must file a certification of consistency with DSC. If DSC deems it inconsistent, will provide suggestions for revision. Challenge consistency determination by submitting appeal to DSC. Delta Plan updated every 5 years.

Delta Reform Act defines "Covered Actions" as a plan, program or project that meets all of the following conditions:

- 1. Will occur, in whole or in part, within the boundaries of the Delta or Suisun Marsh;
- 2. Will be carried out, approved, or funded by the state or local public agency; 3. Is covered by one or more provisions of the Delta Plan;
- and 4. Will have a significant impact on achievement of one
- or both of the coequal goals or the implementation of government-sponsored flood control programs to reduce risks to people, property, and state interests in the Delta.

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WATER EDUCATION FOUNDATION

www.watereducation.org www.aguapedia.com www.aquafornia.com

RDCP **Bay Delta Conservation Plan** California Emergency Management Agency California Department of Food and Agriculture California Department of Parks and Recreation CalEMA CDFA CDPR CVEPE Central Valley Flood Protection Board CVEPP Central Valley Flood Protection Plan California Department of Fish and Wildlife Delta Protection Commission DFW DPC DSC Delta Stewardship Council California Department of Water Resources Memorandum of Understanding DWR MOU NHA National Heritage Area National Marine Fisheries Service NMES SWRCB State Water Resources Control Board USACE U.S. Army Corps of Engineers USEWS U.S. Fish and Wildlife Service



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About: Deba Reform Actrega

Delta Stewardship Council :













What is the Delta Plan?

Regulations, recommendations, and performance measures for:

- Water Conservation & Efficiency
- Flood Risk Reduction
- Ecosystem Restoration
- Water Supply Reliability & Water Storage
- Protect the Delta as a Unique Place
- Ensure Best Available Science & Adaptive Management



Council's Key Roles/Projects

- Implementing the Delta Plan
 - Covered Action authority
 - Delta Plan Interagency Implementation Committee
 - Measuring performance
- Connecting the best science with decision-makers
 - Synthesis, peer review, identifying and funding high-priority science
- Amending the Delta Plan
 - Setting priorities for state investment in Delta levees
 - Promoting options for conveyance, storage, operations
 - Weaving together a plan for ecosystem enhancement

In the News – Twin Tunnels



IMPLEMENTATION PLAN

Improving the reliability and sustainability of California's aging water system



In the News – EcoRestore

- Initiative to help coordinate and advance at least 30,000 acres of critical habitat by 2020
- More than 1,300 acres acquired
- More than \$50 million in Prop. 1 funding for habitat and science



In the News – Flow Standards

- Rethinking how we allocate our water
- Implications for water rights



In the News – Conservation

 Mandatory or voluntary approach to make conservation a California way of life?



Today's Takeaways

- Delta's challenges direct/indirect results of past policy decisions
- Looking ahead: Uncertainty is the only certainty
- Any resolution will require tradeoffs and trust
- The Council's comprehensive approach
 - Use science to increase likelihood of success
 - Landscape scale restoration & planning
 - Reduce reliance on the Delta
 - 'Portfolio' approach to water management

Questions?



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