The Delta Wetlands Project

Bay-Delta Public Advisory Committee

Water Supply Subcommittee

May 17, 2007

Delta Wetlands Is …

- A Storage Project,
- An Environmental and Recreational Asset,
- Part of Any Sustainable Delta Vision,
- Thoroughly studied, and
- Quickest to implement.

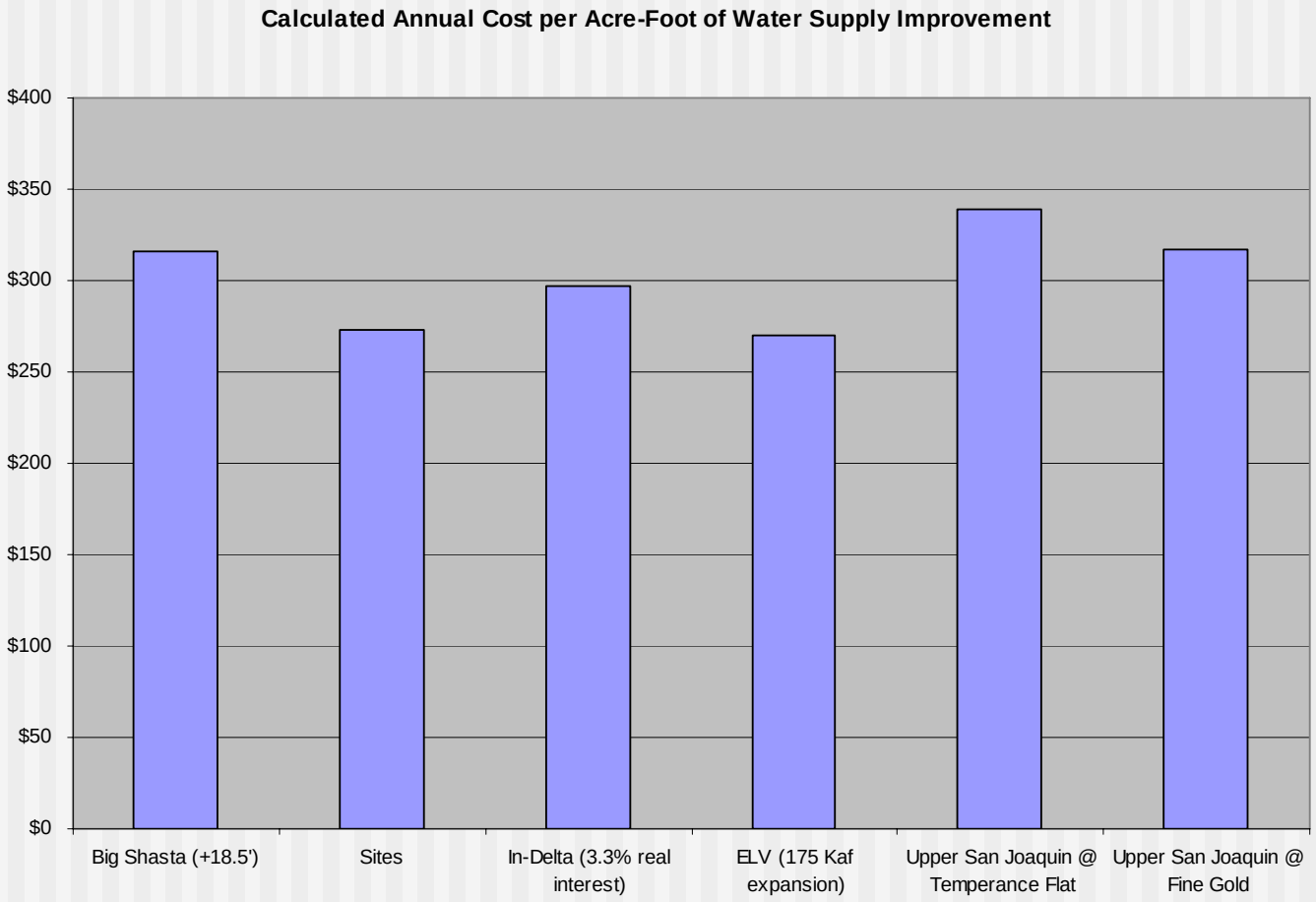
A Storage Project

- 217 Kaf storage in the central Delta
- At least 120 Kafa average yield
- Works with or without 8500 cfs pumping
- Works with or without an isolated facility
- Located in the central Delta, near the export pumps

Issue: Water Quality

- Drinking water quality is protected by protest dismissal agreements
- Latest studies show carbon loading decreases quickly and significantly
- Modeling shows project can produce fall salinity improvements similar to the proposed Franks Tract improve-ments

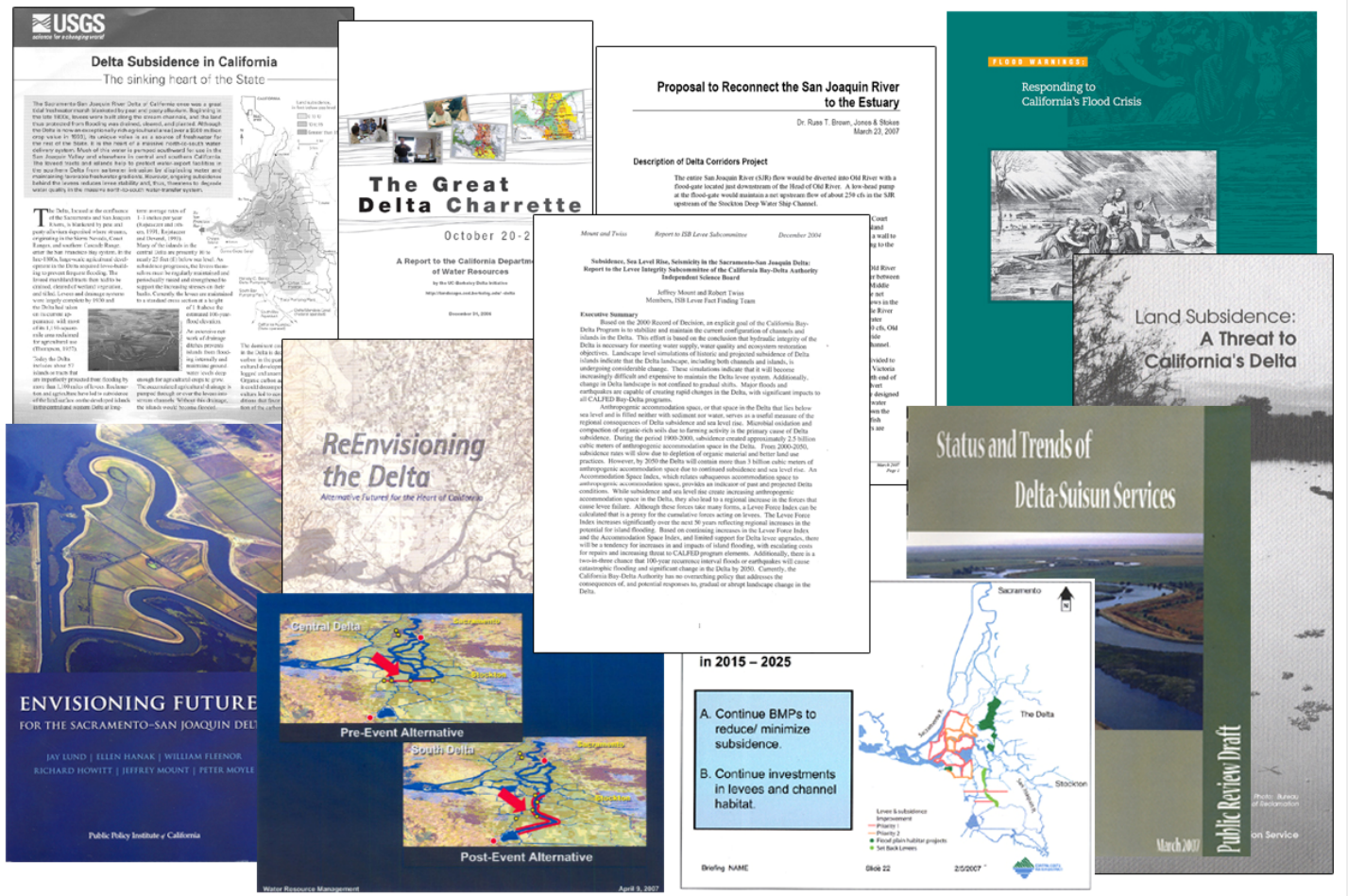
Issue: Cost


Calculated Annual Cost per Acre-Foot of Water Supply Improvement
$400
$350
$300
$250
$200
$150
$100
$50
$0
Big Shasta (+18.5')
Sites
In-Delta (3.3% real interest)
ELV (175 Kaf expansion)
Upper San Joaquin @ Temperance Flat
Upper San Joaquin @ Fine Gold

An Environmental and Recreational Asset

- 9,000 acres of managed habitat on the Pacific Flyway (HMP)
- Supports 10 ERP priority habitat types
- Supports in-Delta Hiking, Boating, Fishing, Hunting and Eco-Tourism

Part of Any Sustainable Delta Vision



A Common Vision

- Strengthen and Maintain Levees
  - Strengthens 56 miles of Key Levees
  - Reduces Risk by 6 – 10 Times
- Prepare For Emergencies
  - Source of Fresh Water Near Pumps
- Reduce or Manage Subsidence
  - Reduces or Reverses Subsidence on Four Islands
- Protect Critical Infrastructure
  - Highway 12 – Bouldin Island Improvements
  - PG&E Gas Pipelines – Bacon Island Improvements

Other Visions

- In-Delta Flood Control
- Carbon Sequestration
- Reinforced Emergency Pathway to Pumps
- South Delta Salinity Barrier

Thoroughly Studied and Quickest to Implement

1. **California State Permits**
   a. SWRCB Decision 1643, 02/15/01
   b. SWRCB Water Rights Permits (set aside by court order pending consideration of place of use), 06/05/01
   c. SHPO Programmatic Agreement, 12/22/97
2. **Federal Permits**
   a. SWRCB 401 Certification, 09/20/01
   b. USACE Record of Decision, 06/25/02
   c. USACE 404 Permit, 09/20/01
3. **Biological Opinions**
   a. DFG Incidental Take Permit, 06/06/01
   b. USFWS Biological Opinion - Delta Smelt, 06/06/97
   c. USFWS Conference Opinion – Sacramento Splittail, 04/26/00
   d. NMFS Biological Opinion - Winter Run Salmon, 06/07/97
   e. NMFS Conference Opinion - Steelhead Trout, 06/26/97
   f. NMFS Biological Opinion - Spring Run Chinook Salmon, 08/29/00
4. **Agreements / Stipulations**
   a. Amador County and Delta Wetlands, 07/23/97
   b. California Urban Water Agencies and Delta Wetlands, 10/09/00
   c. Contra Costa Water District and Delta Wetlands, 10/09/00
   d. Department of Water Resources and Delta Wetlands, 07/23/97
   e. East Bay Municipal Utility District and Delta Wetlands, 09/13/00
   f. North Delta Water Agency and Delta Wetlands, 06/04/97
   g. City of Stockton and Delta Wetlands, 07/08/97
   h. Bureau of Reclamations and Delta Wetlands, 07/02/97
5. **Delta Wetlands EIR/S**
   a. Draft EIR/S, September 1995
   b. Revised EIR/S, May 2000
   c. Final EIR, January 2001
   d. Final EIS, July 2001
6. **In-Delta Storage State Feasibility Study**
   a. Draft Executive Summary, January 2004
   b. Draft Summary Report, January 2004
   c. CALFED Science Panel Review, August 20, 2003
   d. Integrated Facilities Engineering Design and Analyses, July 2003
   e. Draft Engineering Investigations Summary, July 2003
   f. Draft Environmental Evaluations, July 2003
   g. Draft Report on Economic Analyses, January 2004
   h. Draft Report on Operations, December 2003
   i. Draft Report on Water Quality, December 2003
   j. Results of Geologic Exploration Program, January 2003
   k. Results of Laboratory Testing Program, January 2003
   l. Reservoir Stratification Study, by Flow Science Inc., July 23, 2003
   m. Integrated Facility Structures, Construction Cost Estimate, by CH2MHill, May 2003
   n. Borrow Area Geotechnical Report by URS, April 2003
   o. Earthwork Construction Cost Estimate by URS, June 2003
   p. Embankment Design Analysis by URS, June 2003
   q. Flooding Analysis by URS, June 2003
   r. Risk Analysis by URS, June 2003
   s. Seismic Analysis by URS, June '03
7. 2006 Supplement to 2004 Report
   1. Final Supplemental Report (May 2006)
   2. Groundwater Monitoring Jones Tract Flood Sacramento-San Joaquin Delta
   3. Lowney Associates Piezometer Installation Report
   4. Review of Delta Wetlands Water Quality: Release and Generation of Dissolved Organic Carbon from Flooded Peatlands
   5. In-Delta Storage Program Risk Management
   6. In-Delta Storage Program Seepage Calibration Study
   7. In-Delta Storage Program Integrated Facilities Supplemental Structural Engineering Design and Analysis
   8. Proposed Integrated Facility at Webb Tract Supplemental Geotechnical Exploration