

South Delta Fish Facilities Forum

Draft Policy Conclusions and Action Items

December 10, 2004



SDFF Forum Background

- Funding shortfalls delayed Tracy Fish Test Facility implementation
- ◆Management questions the original South Delta screening program strategy and cost
- ◆2 Years of meetings to educate stakeholders and Agency management on facility and related issues
- **◆Last met January 2004**



Where we were... **SDFF Forum Recommendations**

- Conduct a scientific study on South Delta Hydrodynamics, Fish moments, and water quality
- Conduct Collection, Handling, Transportation, and Release (CHTR) studies
- Continue CVPIA Tracy Fish Facility Improvement Investigations
- Conduct feasibility investigation on "replumbing CCF" to reduce predation
- Postpone investigation of alternative fish facility concepts using combinations of non-Salvage Screens and Flow Recirculation
- Determine appropriate level of Fish Facility Technology Development and implementation
 - What is the immediate or long term need for testing (i.e. Tracy Fish Test Facility or similar)?
 - What immediate actions should be taken to reduce known deficiencies?



Review of Draft Policy Recommendations White Paper

Summary of Paper

- Determine appropriate strategy for South Delta fish facilities
 - Maximize fish protection given limited resources
 - Look at alternatives to "Modular" new screen facility approach
 - Develop assurances
- Adopt strategy in CALFED program Plans
- ◆Update 10-Year Finance Plan



Key Recommendations of the **SDFF Forum Chairs**

- Phased decision making
- Science support for long term implementation
- Assurances for actions
- Adequate funding needed through Finance plan
- **♦** Immediate actions
- Long term investments



Immediate Actions

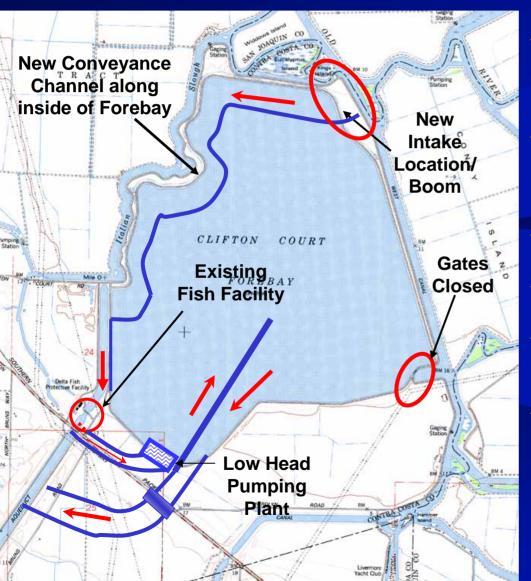


Immediate Action

- Feasibility study to investigate technical alternatives that may reduce CCF predation
 - CCF Forebay to Afterbay concept
 - Aka: Replumbing, Short Circuit
 - Impact analysis on South Delta
 - Hydraulics, pumping costs, barriers
 - Predation study to follow viable alternatives
 - Science workshop in Spring 2005
- Actions
 - Study awaiting management direction



Alternatives Feasibility Study to Reduce Pre-Screen Predation Losses



- Can the existing fish facility function in this configuration with Low Head Pumping Plant?
- What are the hydraulic and water level impacts in the South Delta (CVP, SWP, Ag) or on the proposed barriers?
- Water quality impacts?
- What are fisheries impacts?
- Will this these configurations significantly reduce the 75% pre-screen losses
- What are potential future phases of the work?

Elmmediate Action

- Improve debris removal for fish collection and survival efficiency improvements
 - Reduce fish collection outages
 - Reduce debris into fish hauling trucks
 - Benefits CVP/SWP pumping operations

Actions

- Automated trashracks and debris system improvements in CVP and SWP plans
- Louver cleaners at CVP required as part of OCAP BO



Immediate Action

- Complete CHTR studies to identify facility or operational improvement actions
 - Focus on delta smelt
 - Review existing facilities by 2006

Actions

- CBDA Science reviewed DFG study plans on evaluating existing conditions
 - Studies started in 2004
 - New Building at SWP built
- DWR release site proposals under development
- USBR doing related studies under CVPIA
- DFG is lead with IEP Oversight
- DWR and USBR participating

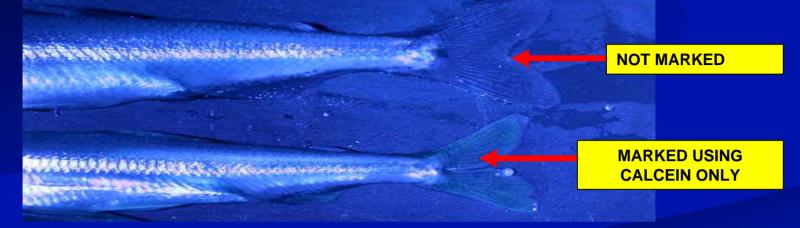


New CHTR Building Operational in 2004

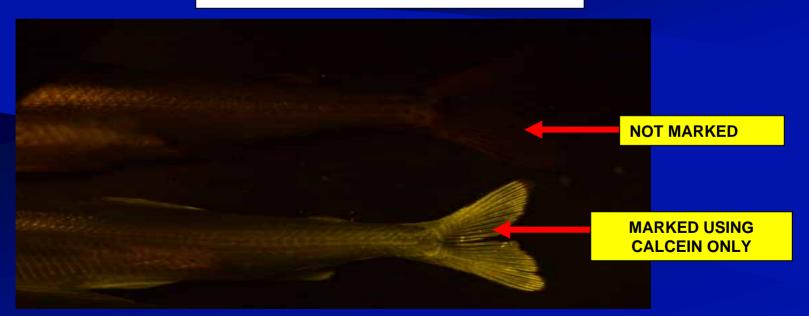




Delta Smelt Marking Techniques



VIEWING UNDER BLUE LIGHT



VIEWING UNDER FILTERED BLUE LIGHT

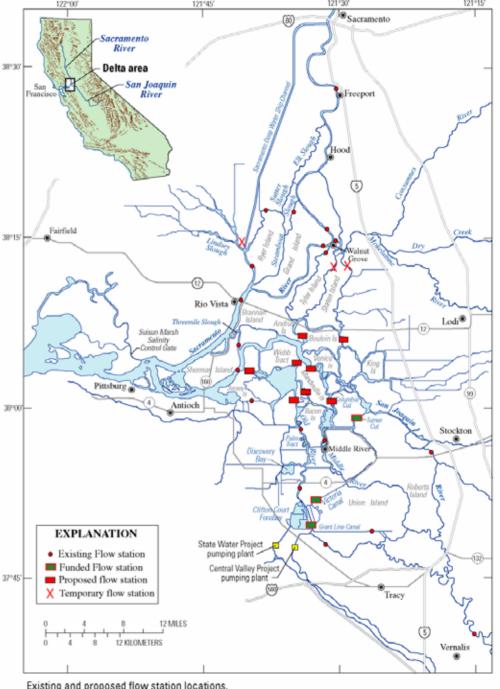


Immediate Action

- Conduct South Delta Hydrodynamics/ Fisheries/Water Quality Studies
 - Identify better operational strategies to minimize fish entrainment
 - Fish, flow, and WQ tradeoffs
 - Identify future CCF reconfiguration operations
- Actions
 - Action included as part of DIP under Science
 - Pilot studies began in 2004
 - Developing Science proposal for 2006 implementation
- **♦ IEP Lead**
- USGS, DFG, DWR, and USBR Participating



New Flow and WQ Monitoring Stations Being Installed and Models Developed



Existing and proposed flow station locations.

All stations in central and south delta should have temperature/conductivity sensors.

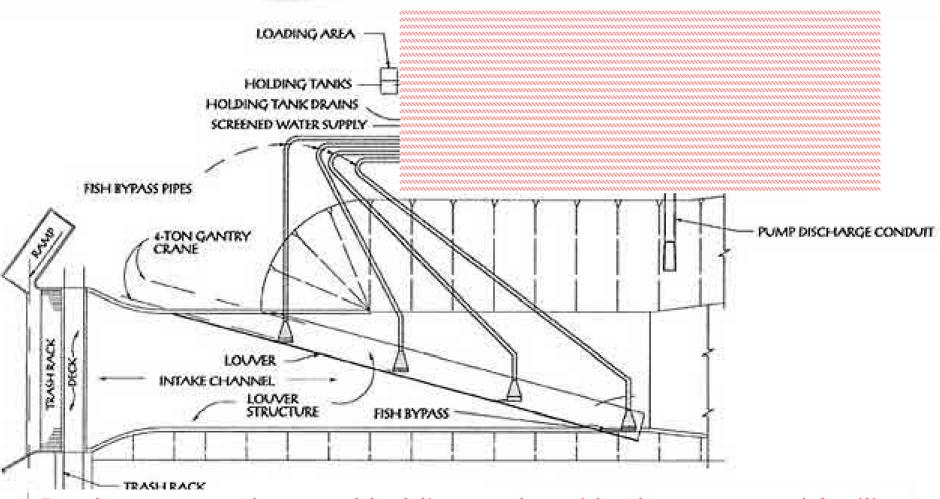
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Elmmediate Action

- Phase in "Secondary" and "Holding" facility replacement at Tracy Fish Facility
 - New system will allow better debris and management above ground
 - Can be phased into operations with testing
- Actions
 - Continuing fish lift and holding tank designs
 - Pilot facility planned in 2005
 - Need Management direction to proceed



Tracy Fish Facility Improvements



Replace secondary and holding tanks with above ground facility



- ◆Improve Weed Control Measures
 - Reduce the debris problems before they come into the facility
 - DWR currently harvests or sprays in CCF
 - Boating and Waterways supports Delta spraying
- Actions
 - CBDA and Agencies to continue to coordinate with DBW on effectiveness

Immediate Action

- Review and Implement Fish Facility Operational Improvements
 - Fish handling improvements
 - Staffing
 - Equipment needs
- Actions
 - Conduct study at CVP and SWP Facilities



Long Term Fish Facility Investments



Long Term Fish Facility Investments

- Science-based
- Facility improvements in context of greatest cost/benefit of fish productivity and habitat value
- Should not be driven delta smelt use EWA
- Modify 10-Yr Finance Plan on agreement
- Modify Program Plans as needed

Schedule

- ◆January 14 Whitepaper Comments Due
- January 26 Revised Whitepaper and Comments Distributed
- January 31 SDFF Forum Meeting