

Additional Actions

**Public Meeting on OCAP, SDIP &
Related Actions**

November 25, 2003



Old River & Rock Slough Water Quality Improvements

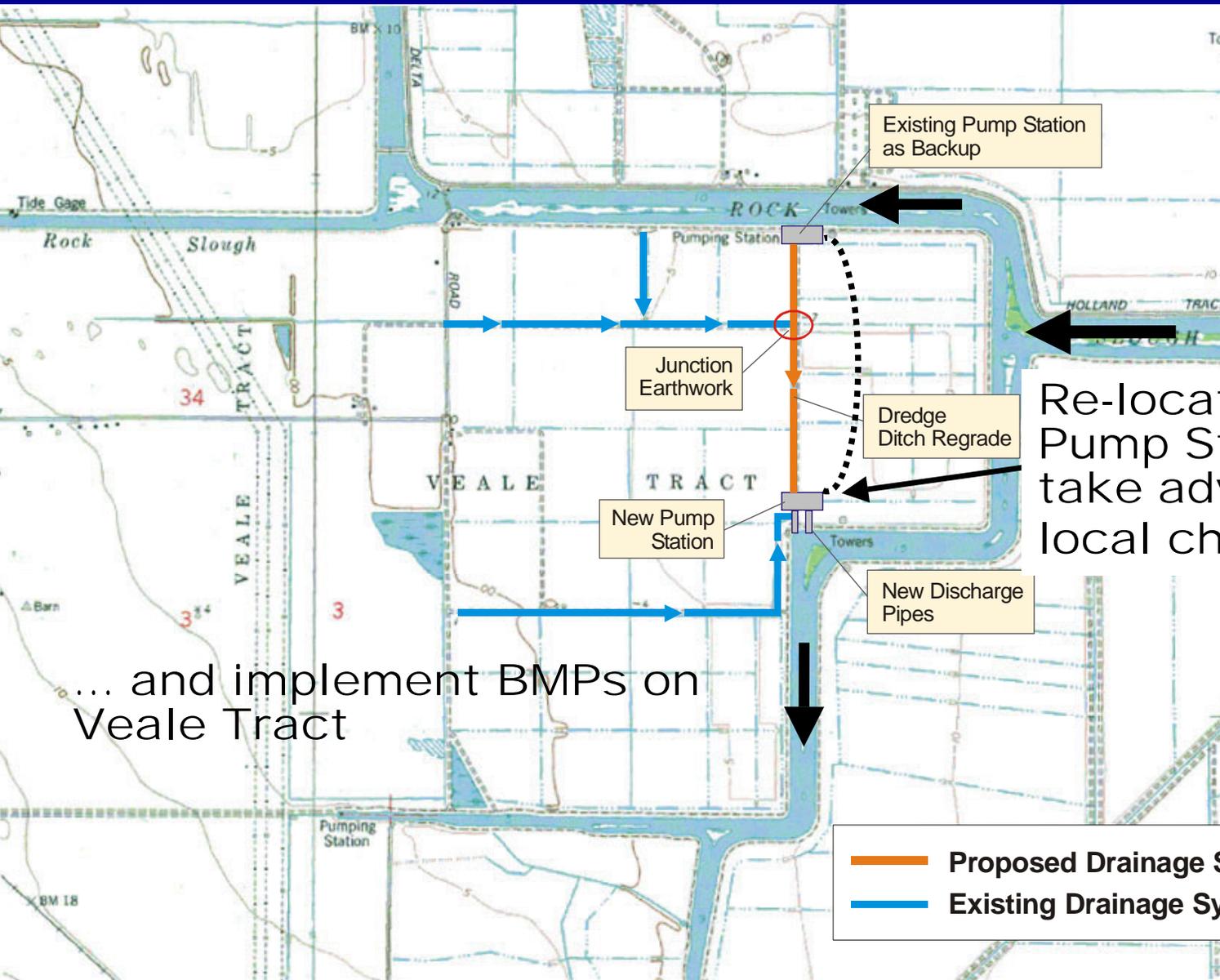
- Purpose is to reduce or relocate agricultural drainage in the South Delta and to line a portion of CCWD Canal, minimizing salinity and other water quality constituents of concern to drinking water at urban intakes in the South Delta

Byron Tract

Veale Tract



Veale Tract Solution

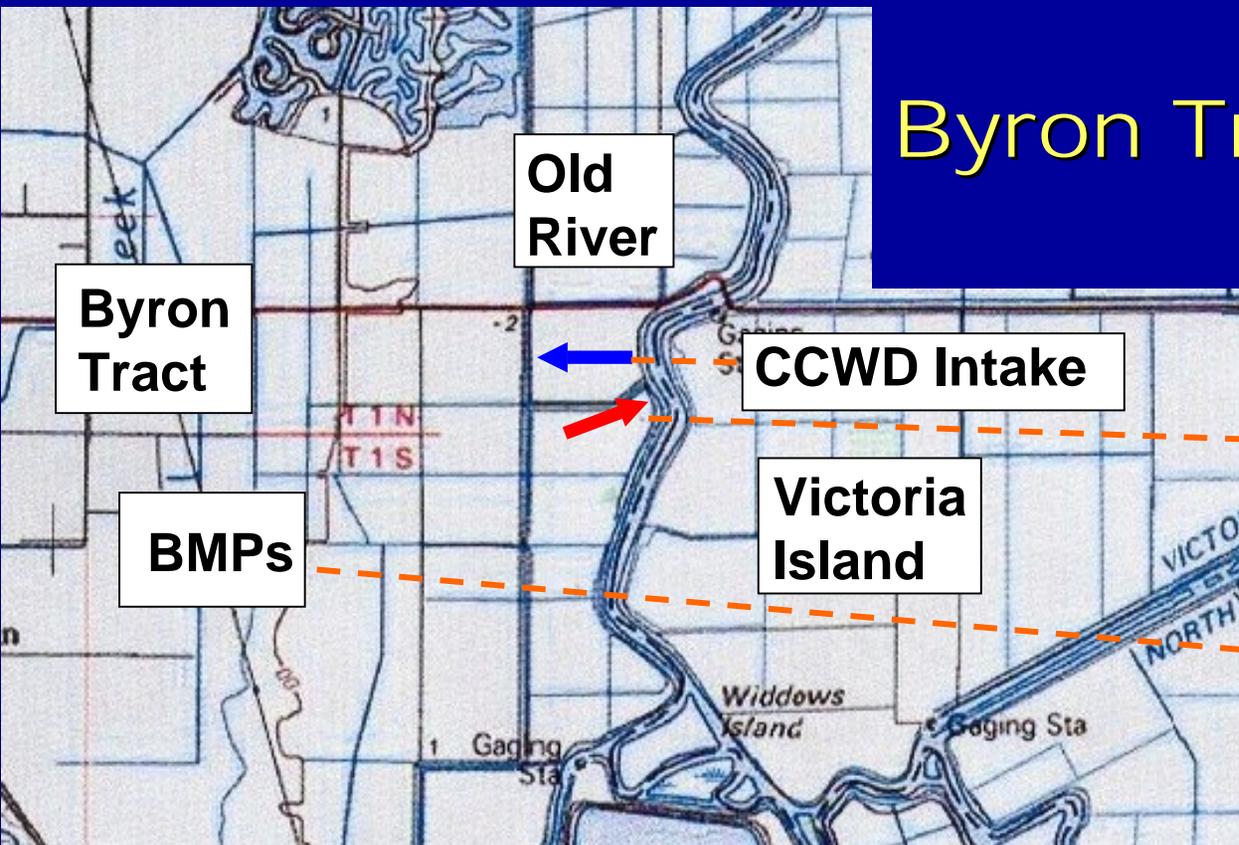


Re-locate pump
Pump Station and
take advantage of
local channel flows...

... and implement BMPs on
Veale Tract

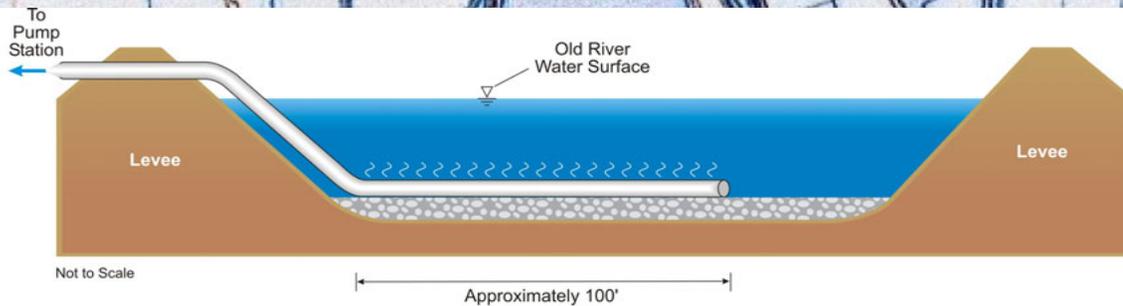
- Proposed Drainage System
- Existing Drainage System

Byron Tract Solution



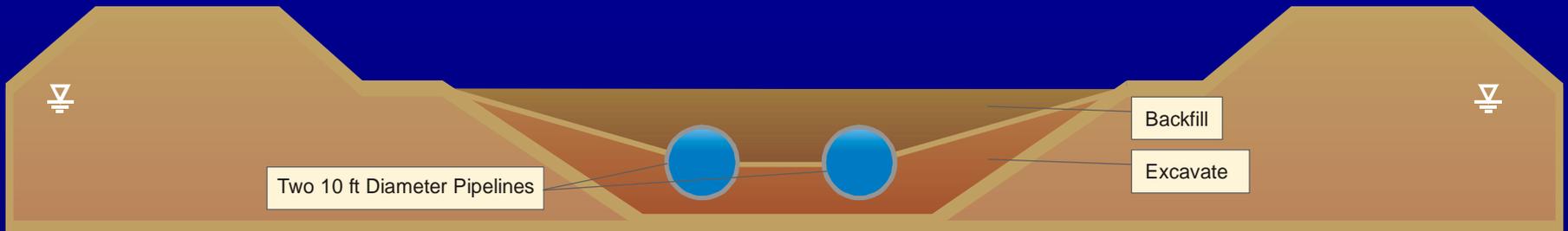
Diffuse agricultural Drainage

Work with Byron Tract to implement BMPs



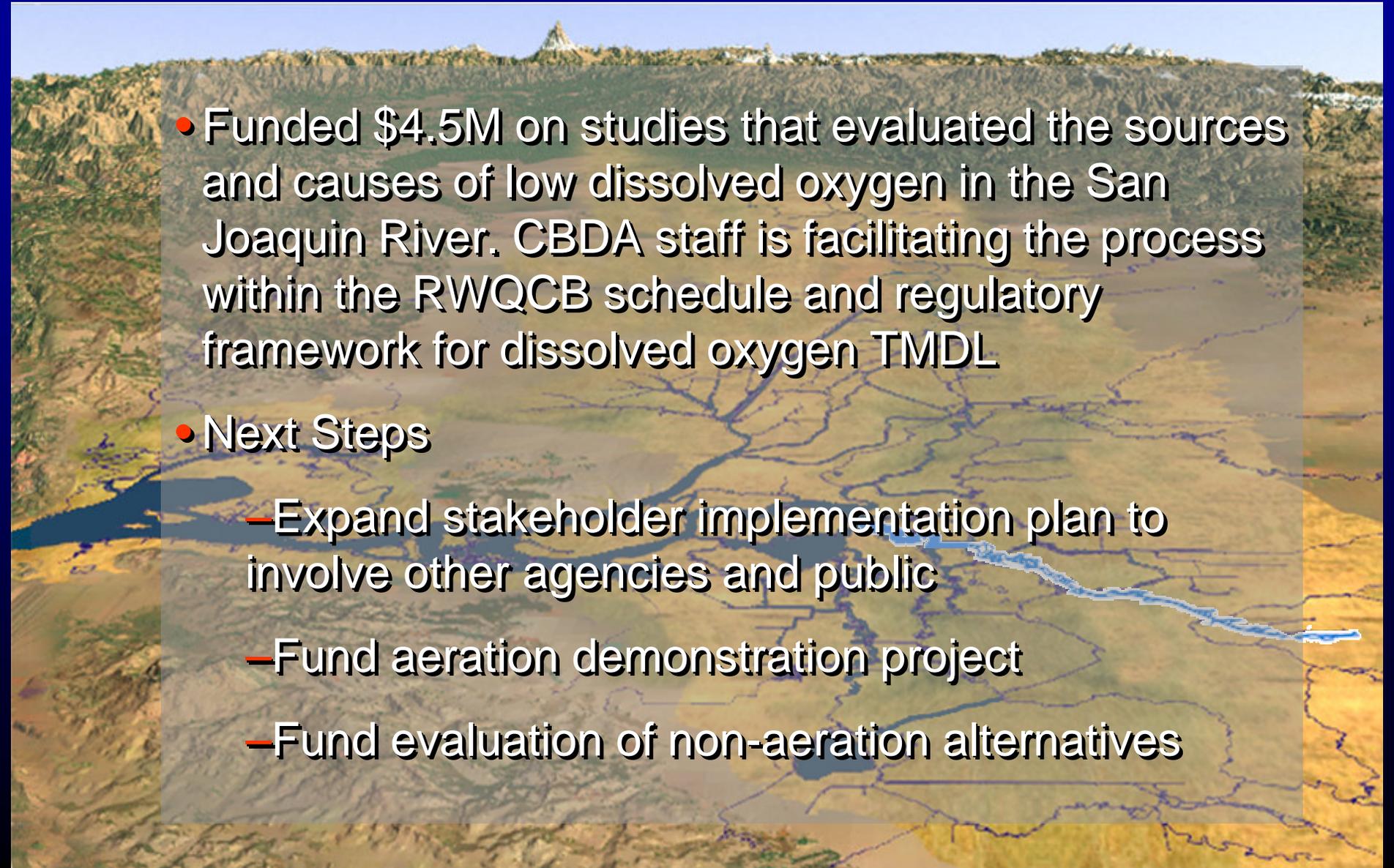
TYPICAL CROSS SECTION OF
DIFFUSER ALTERNATIVE
CALFED OLD RIVER
WATER QUALITY IMPROVEMENT PROJECT

Canal Solution



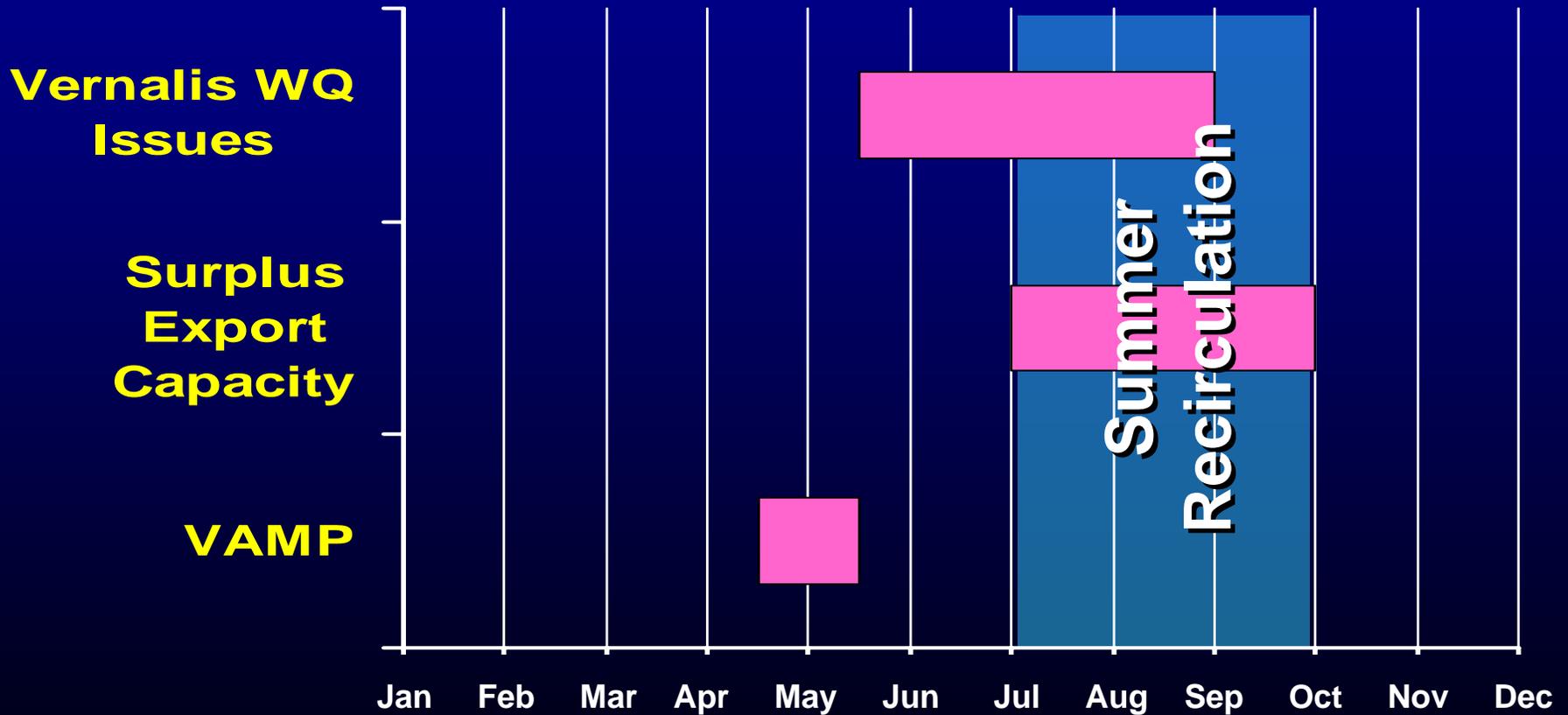
- Line 1,900 feet of the Contra Costa Canal to prevent low-quality NPS groundwater seepage into Canal.
- Most cost-effective engineering alternative.

Stockton Deep Water Ship Channel Dissolved Oxygen Implementation Strategy

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- An aerial photograph of a river delta, likely the San Joaquin River, showing a complex network of waterways and surrounding land. A semi-transparent grey text box is overlaid on the center of the image, containing the main text and bullet points.
- Funded \$4.5M on studies that evaluated the sources and causes of low dissolved oxygen in the San Joaquin River. CBDA staff is facilitating the process within the RWQCB schedule and regulatory framework for dissolved oxygen TMDL
 - Next Steps
 - Expand stakeholder implementation plan to involve other agencies and public
 - Fund aeration demonstration project
 - Fund evaluation of non-aeration alternatives

**Recirculation of CVP and SWP
export water to the San Joaquin
River to help meet water quality
standards, augment river flow, and
improve dissolved oxygen
conditions in the Stockton Deep
Water Ship Canal**

San Joaquin River Recirculation Timelines







New Melones Res.

Millerton Reservoir

San Joaquin

San Luis Wasteway

San Luis Reservoir

Merced

Stanislaus

Newman Wasteway

Stockton Deep Water Channel

✓ Back water into New Melones when releases are being made to WQ standards

✓ Release at other time to Recoup supply

Option 2

Without New Melones Releases

Voluntary water purchases on tributaries to reduce demands on New Melones Reservoir

New Melones
Reservoir

Mariposa
Reservoir

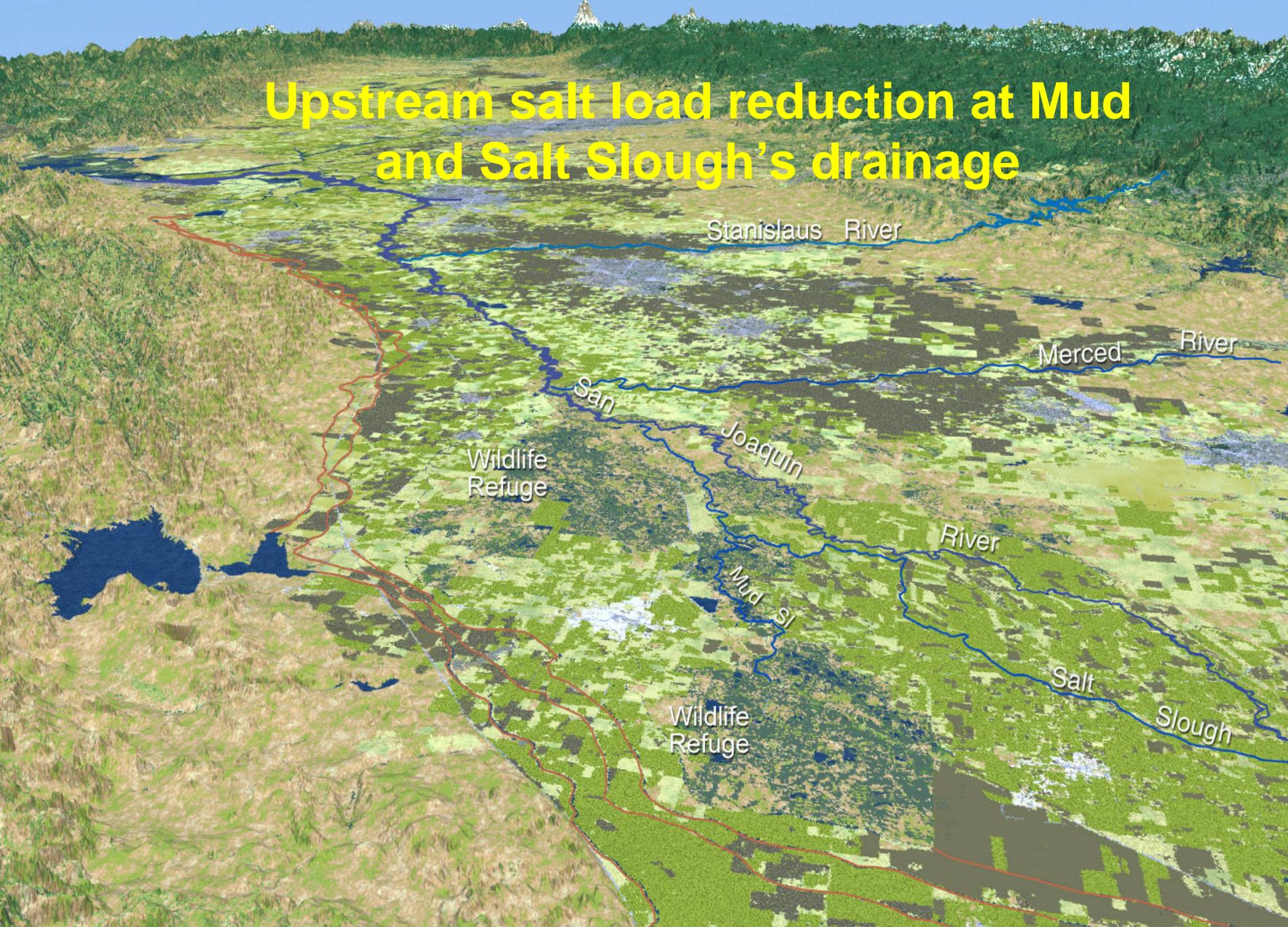
San Joaquin River

Merced River

Wildlife
Refuge

Stanislaus River

Upstream salt load reduction at Mud and Salt Slough's drainage



Stanislaus River

Merced River

San

Joaquin

River

Mud Sl

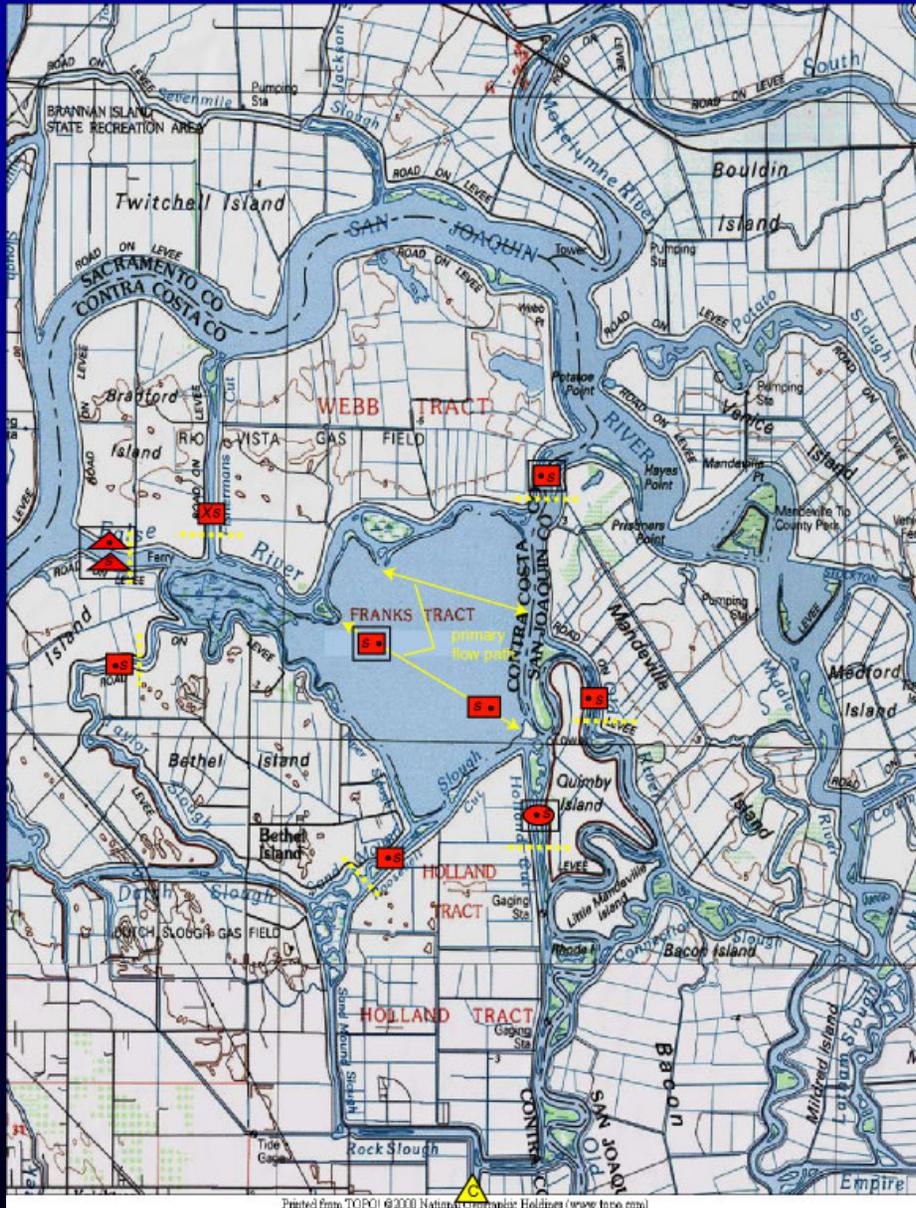
Salt

Slough

Wildlife
Refuge

Wildlife
Refuge

Develop Strategy for Franks Tract



Recent studies indicate that potential restoration alternatives for Franks Tract could possibly significantly reduce salinity at South Delta and central Delta water intakes

False River Continuous Release



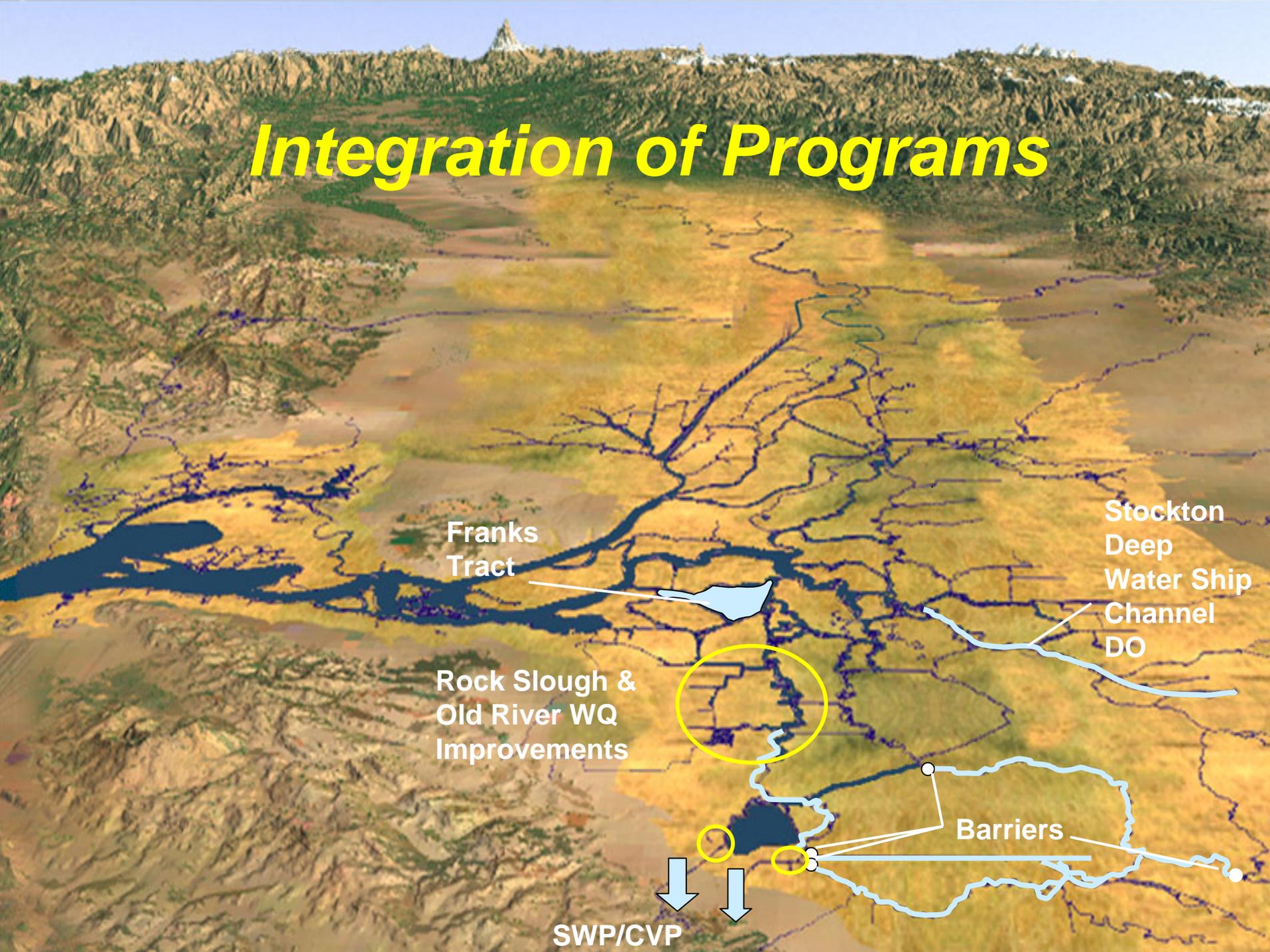
P.I.: Jon R. Burau
Animation: Sean I. Burau
Model: TRIM2D (Casulli and Cheng)



Phased approach being considered for Franks Tract that will allow incremental improvement and monitoring to achieve the most cost effective solutions

- ERP funding \$1.2M 2003-2004 for feasibility of ecosystem and water quality benefits associated with restoration of flooded islands
- Feasibility Studies/Science/Performance monitoring keys to phased development
- Integration with other Delta water quality actions throughout process

Integration of Programs



Franks Tract

Stockton Deep Water Ship Channel DO

Rock Slough & Old River WQ Improvements

Barriers

SWP/CVP