

SOLANO COUNTY WATER AGENCY



CALIFORNIA
BAY-DELTA
AUTHORITY

Delta Region Drinking Water Quality Management Plan

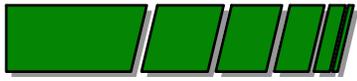


CONTRA COSTA
WATER DISTRICT

Stockton

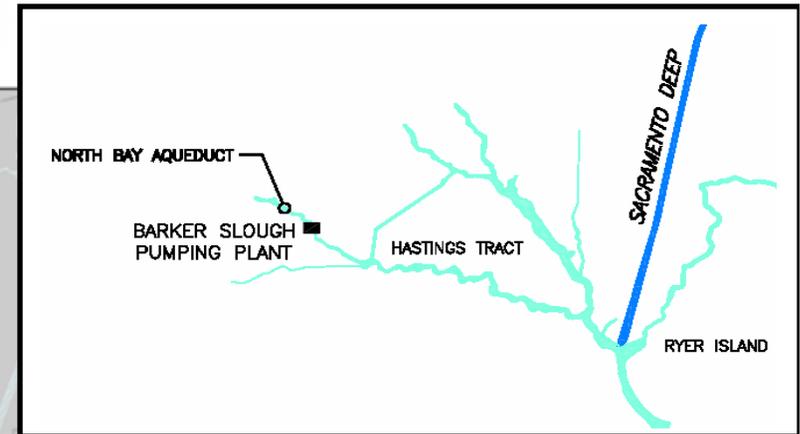
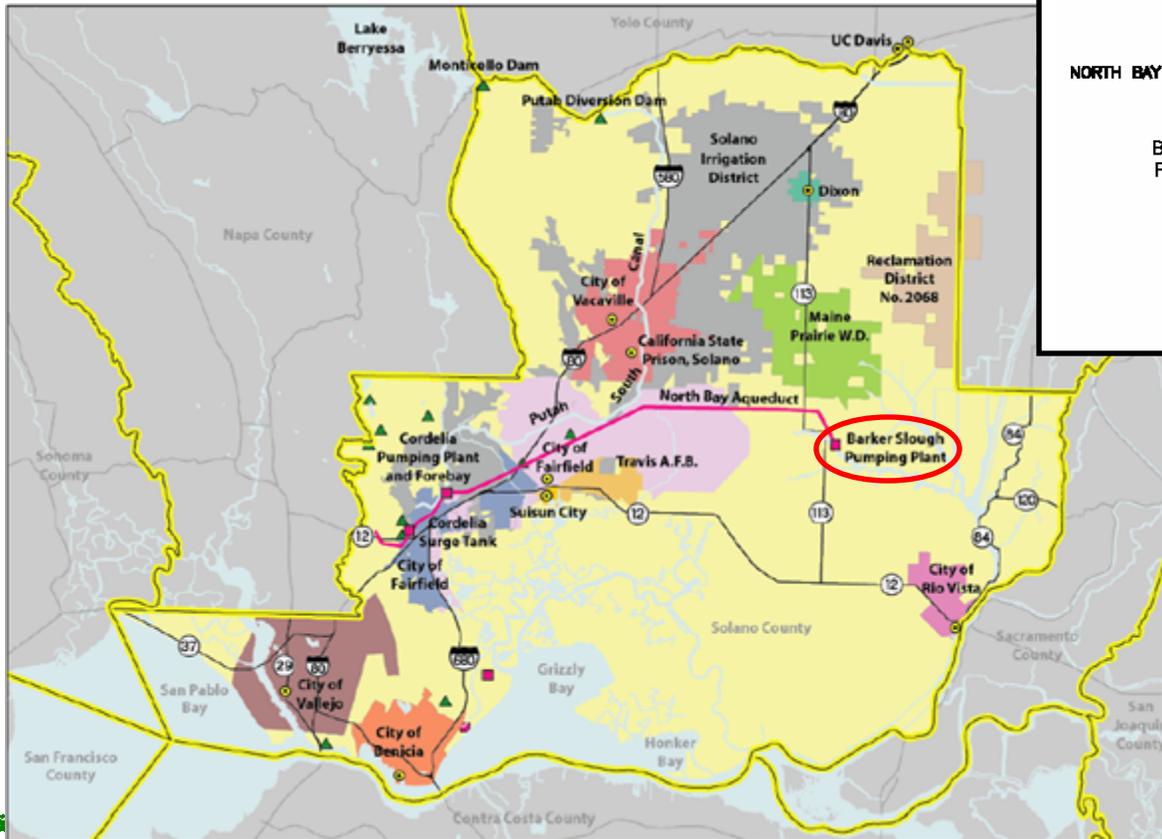


2004



Participating Agencies

- Solano County Water Agency
 - ❖ Serving Delta water to Vacaville, Fairfield, Benicia, and Vallejo





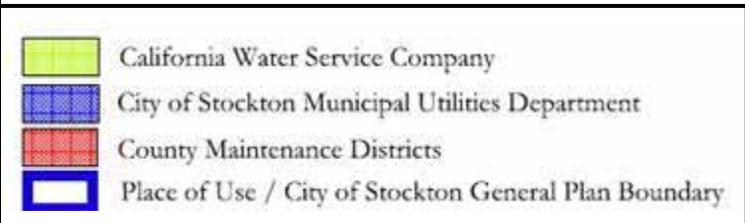
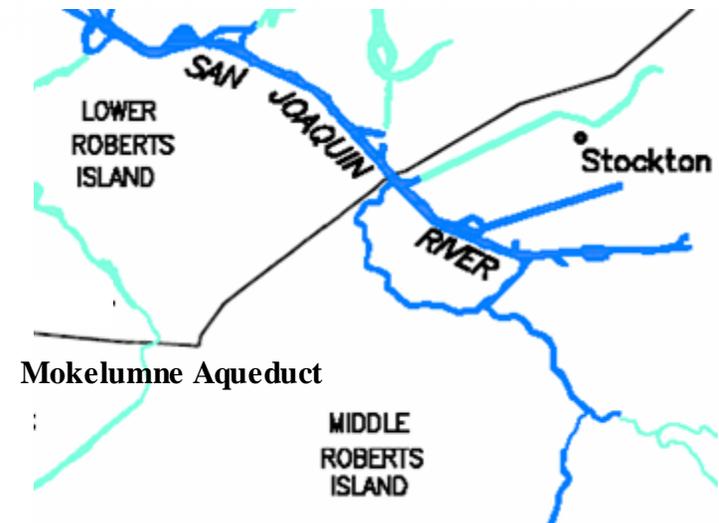
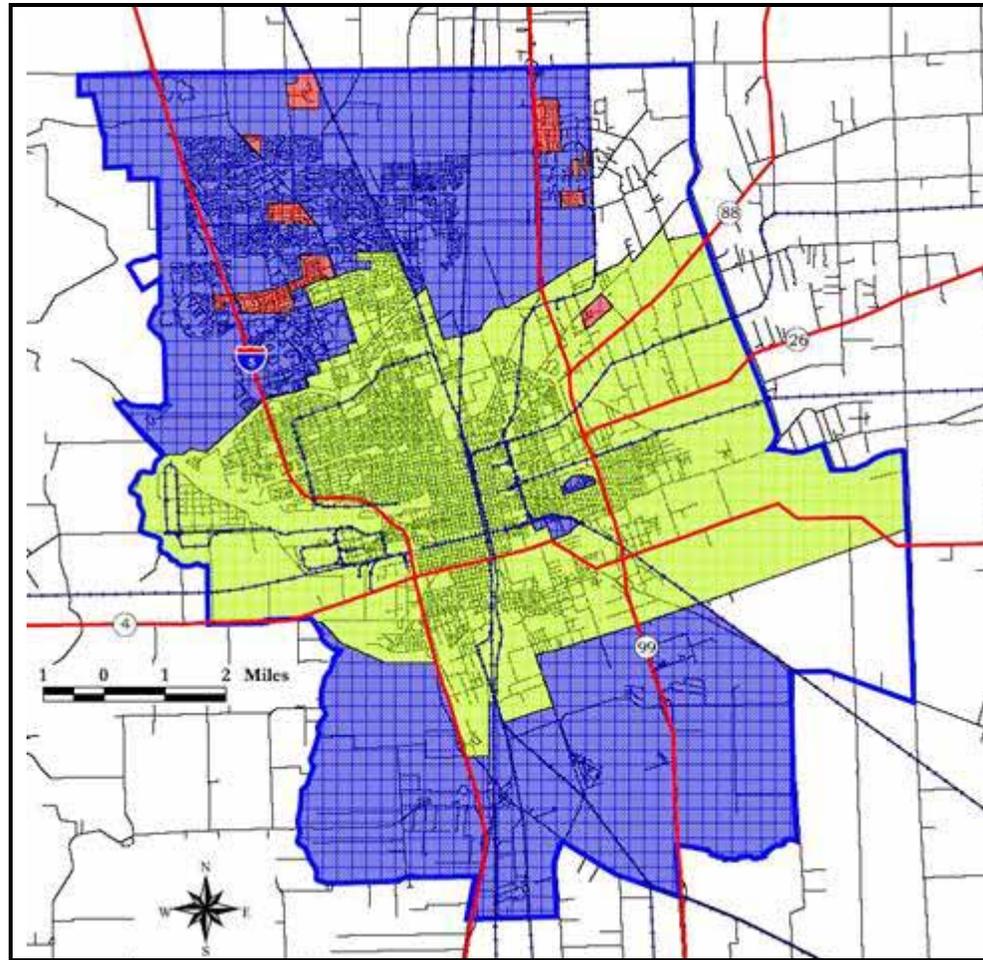
Solano County Water Agency

- Serves Delta water to 400,000 people in Solano County
- Sources of Delta water are the State Water Project's North Bay Aqueduct intake at Barker Slough
- Other sources of water are the Federal Solano Project and some groundwater use.



Participating Agencies

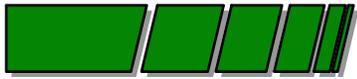
- City of Stockton





City of Stockton

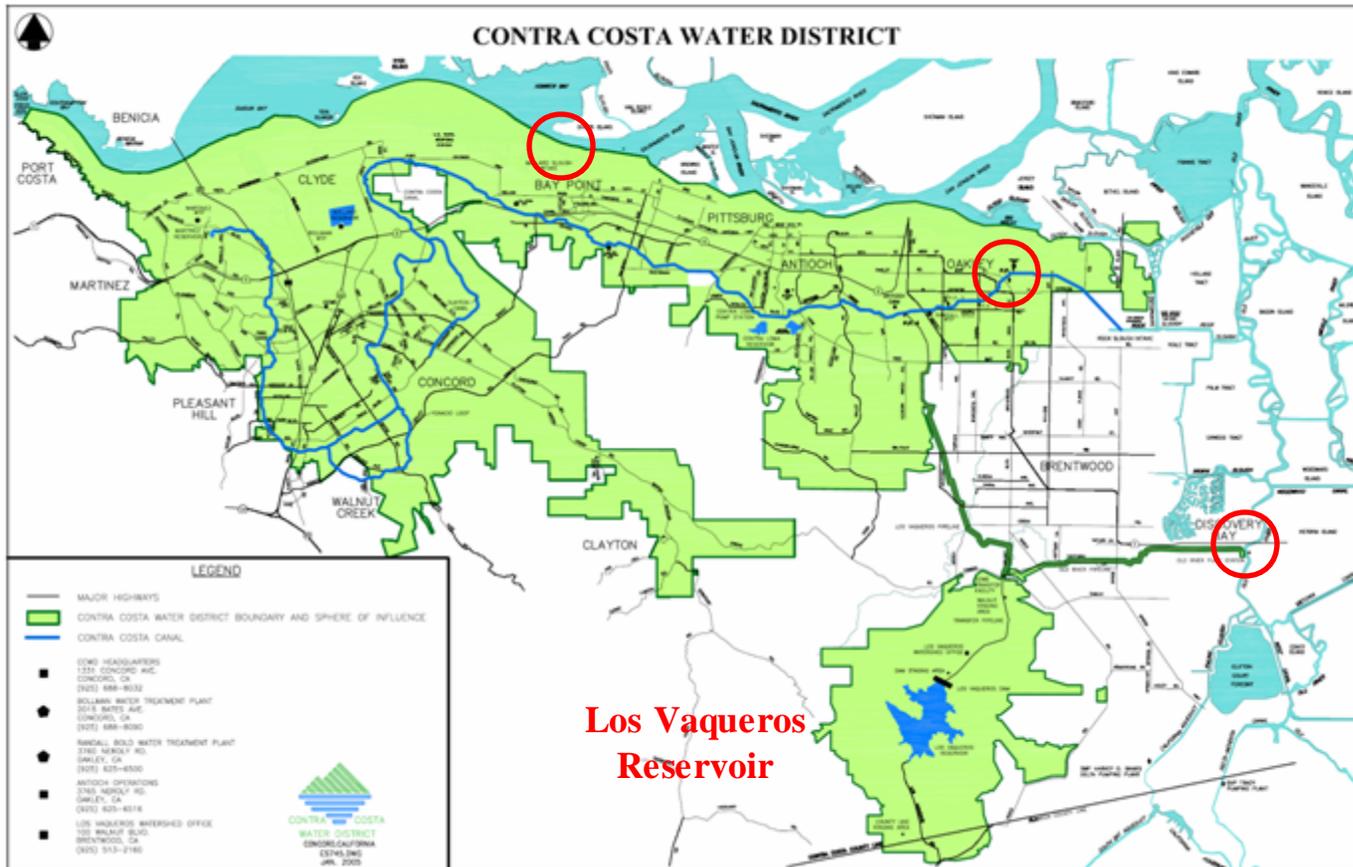
- Serves water to over 260,000 people
- Receives surface water from Stockton East Water District
- Some groundwater use
 - ❖ Need to address seawater intrusion into aquifer
- Use of New Melones Reservoir water to meet San Joaquin water quality standards affects supply
- Reduced San Joaquin flow past Stockton affects water quality in river



Participating Agencies

- Contra Costa Water District

Serving Clayton, Walnut Creek, Concord, Pacheco, Pleasant Hill, Martinez, Port Costa, Clyde, Bay Point, Pittsburg, Antioch, Brentwood, and Diablo Water District.





Contra Costa Water District

- Serves 500,000 people in central and eastern Contra Costa County
- Diverts water from Rock Slough at Contra Costa Canal Pumping Plant #1, at Old River near Highway 4, and Mallard Slough
- Completed \$450 million Los Vaqueros Reservoir in 1998 to improve quality of delivered water
- Nearing completion on Veale/Byron Tract drainage projects



Commonalities

- Concerns over quality of Delta water supply
- All three agencies investigating:
 - New intakes
 - Advanced treatment
 - Source water protection



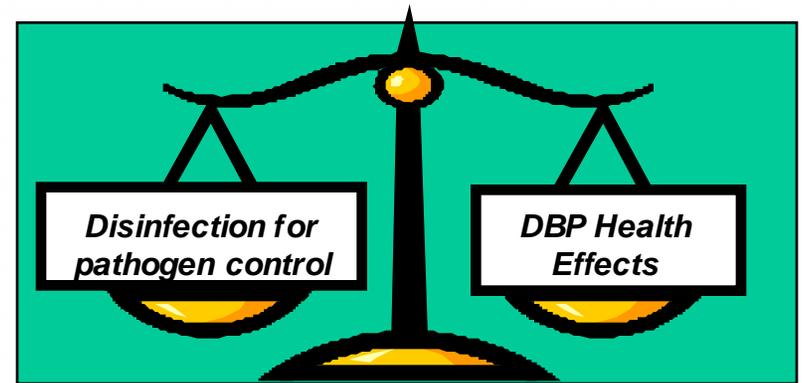
Key DR DWQ MP Objectives

1. Consider source water quality, and water quality needs of urban agencies within the Delta
2. Develop a conceptual model of projects and programs needed to meet urban water quality needs, using ELPH structure as basis
3. Identify the role of local, regional, and state agencies in implementing projects and programs

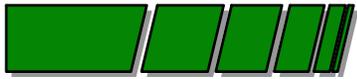


Key Constituents of Concern

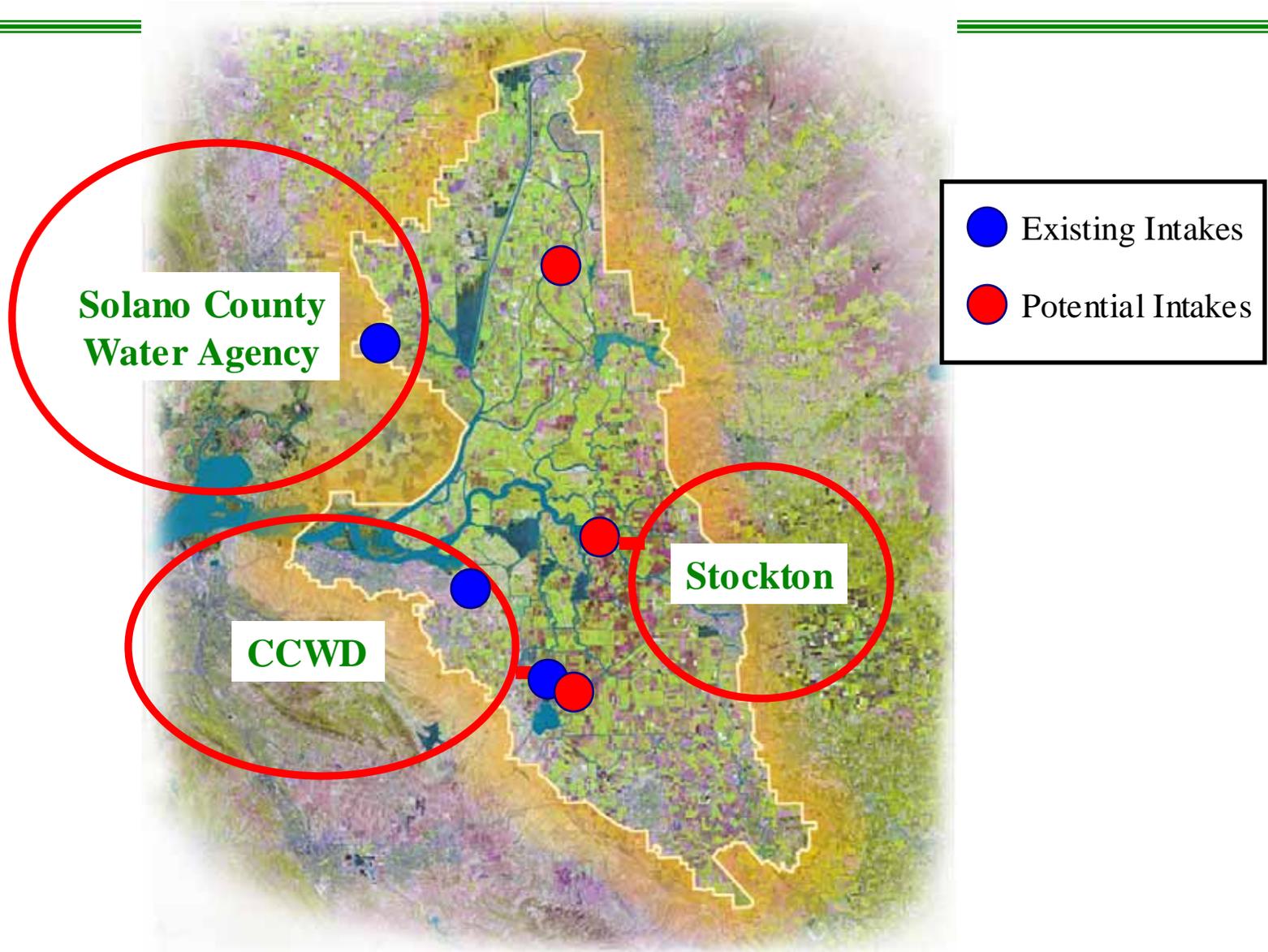
- **Bromide**
 - ❖ Chloride, Total Dissolved Solids, Specific Conductance (EC)
- **Organic Carbon**
 - ❖ DOC, TOC
- **Pathogens**
- **Others**
 - ❖ Turbidity, Nutrients, Pesticides, and Taste & Odor
 - ❖ Emerging contaminants

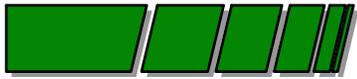


Focus is on Bromide and Organic Carbon reduction (DBP Precursors) and pathogen removal

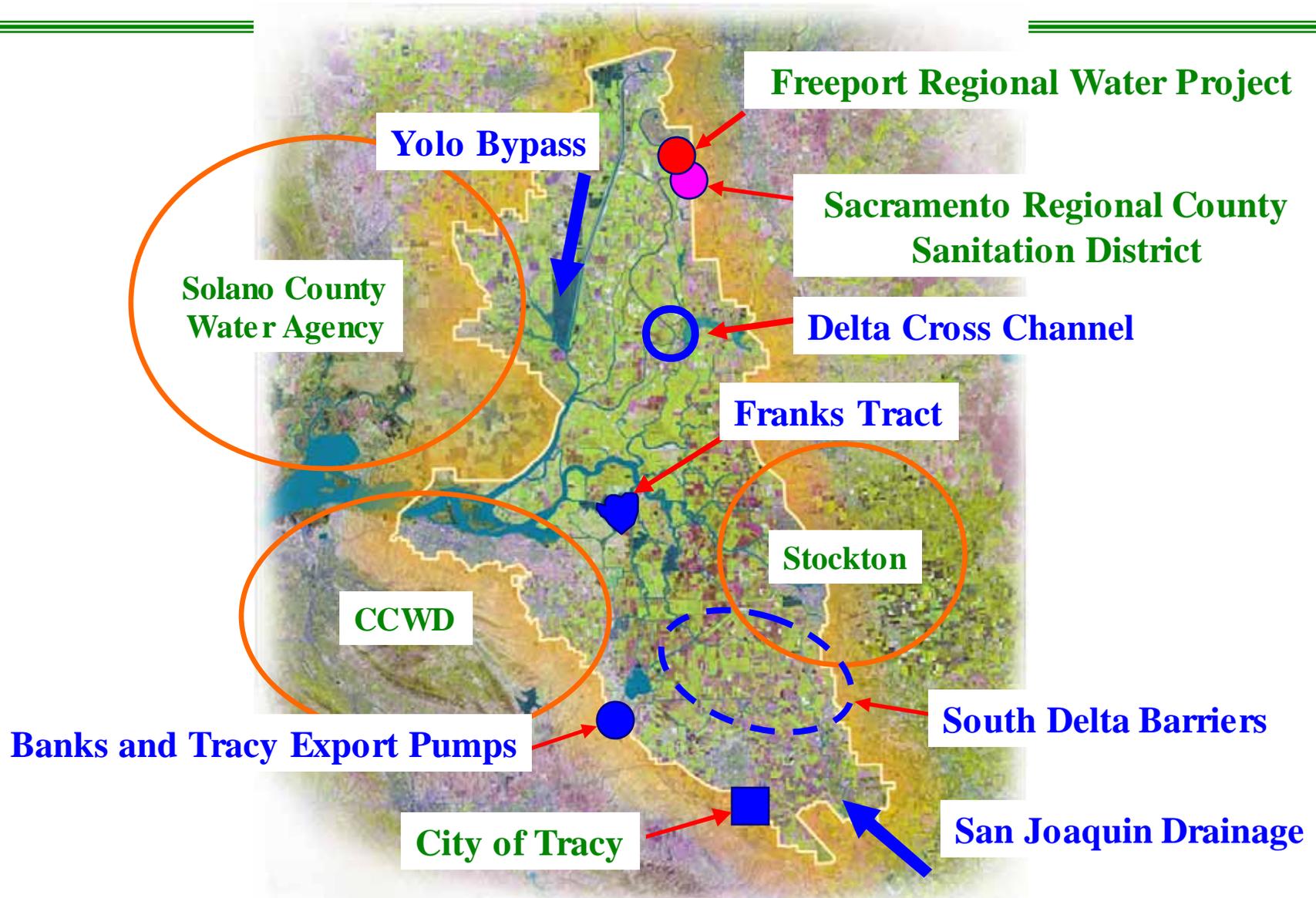


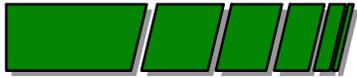
Three Case Studies for Delta Diverters





Locations of other Parties and Features





Solano County Water Agency

Biggest issue is high organic carbon and turbidity

