



Securing Water in Dry Times

Aaron Baker P.E., Chief Operating Officer

Comprehensive Water Supply System



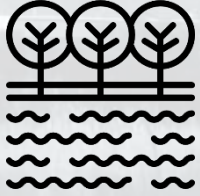
15 Cities

2,000,000 People

13 Local water retailers

4,700 Direct well owners

By the Numbers



294

miles owned
out of 800 miles of
streams in Santa
Clara County



10

dams and surface
water reservoirs



3

water
treatment plants



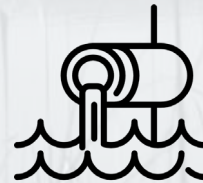
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advanced water
purification center



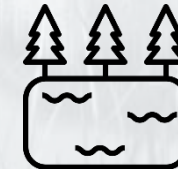
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state-of-the-art water
quality laboratory



142

miles of
pipelines



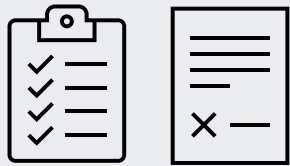
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groundwater recharge
ponds covering 277 acres

Potable Reuse: San Jose Purified Water Project

- Potable reuse goal: 24,000 AFY by 2035
- San José Purified Water Project
 - Phase 1 – demo facility
 - Phase 2 – DPR full-scale facility (up to 20MGD)
 - Includes Learning Center
 - Cost: \$100M for Phase 1, \$2.2B for Phase 2

Objectives of Demo Facility:



Regulatory Permitting
& Interagency Agreements



Train Operators



Operational and Technical
Studies

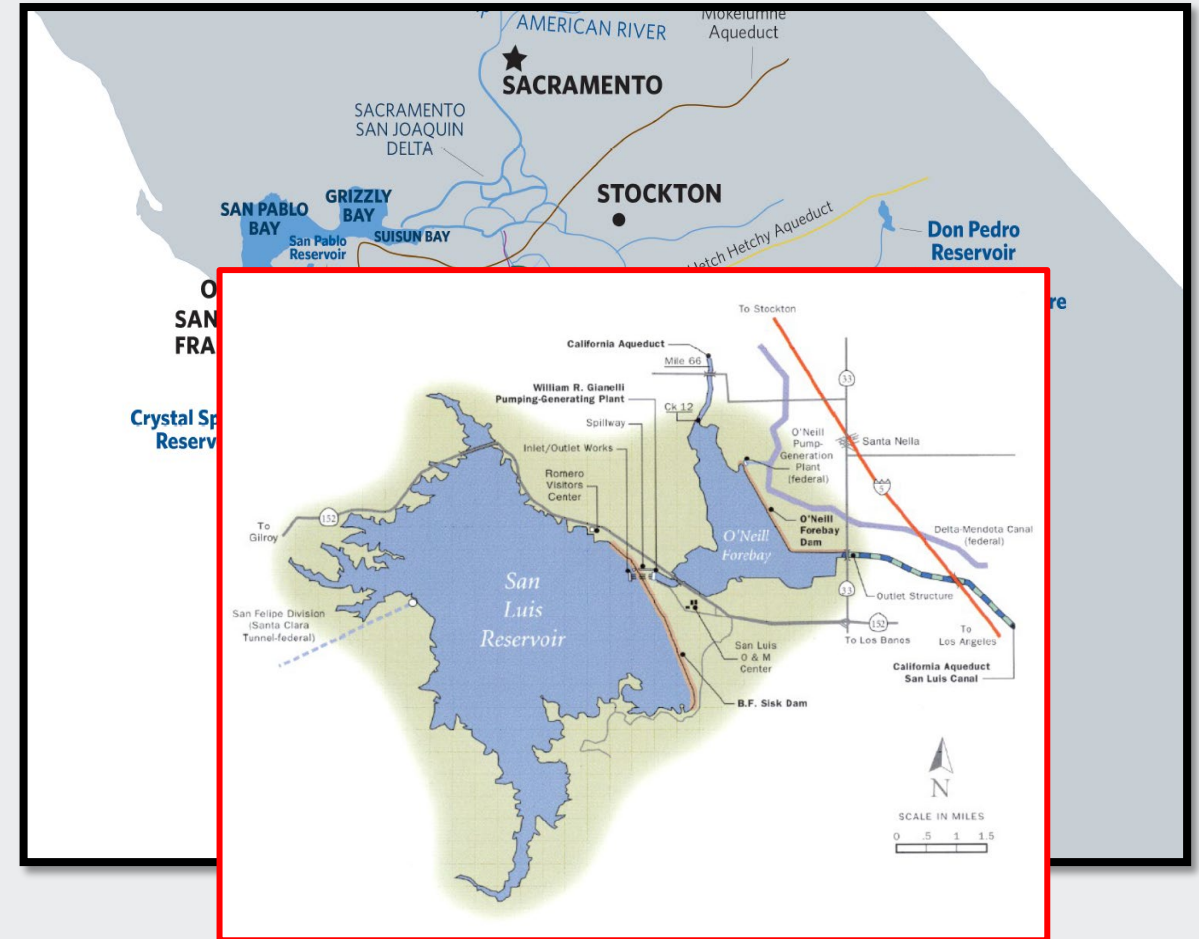


Outreach and Public
Perception



B.F. Sisk Dam Raise & Reservoir Expansion

- Regional partnership
 - San Luis Delta Mendota Water Authority
 - U.S. Bureau of Reclamation
- 130,000 acre-feet of new storage
- Total project cost: \$942M
 - Valley Water participation level
 - 65.9% with 60,000 AF
 - Capital cost-share: \$435M
- Benefits:
 - Improves drought reliability
 - Flexible and reliable south of Delta storage
 - Ability to capture surplus water through existing contracts



Groundwater Banking

- Semitropic Groundwater Bank - 1996
 - 350,000 AF storage in Kern County
 - Approx 31,000 AF annual recharge
 - Historical 31,000 AF recovery in dry years
 - Returns via SWP supplies exchange
- Future Groundwater Banking Project
 - Central Valley partnership opportunities
 - Returns through exchanges
 - Considerations for SGMA compliance
- Benefits:
 - Diversify storage options
 - Support agencies with SGMA implementation



Dam retrofits

- Seismic retrofit and improvement projects underway
 - 5/10 local reservoirs under DSOD capacity restrictions
- Current project: Anderson Reservoir Seismic Retrofit Project
 - Largest reservoir – approx. 90,000 AF
 - Total Project cost – \$2.3B
 - Estimated completion date – 2032
- Benefits
 - Optimize local storage capacity & stormwater capture
 - Reduce reliance on imported water



The cost of securing water in dry times:

Project	Cost (millions)
San Jose Purified Water Project (full-scale)	\$2,200
B.F. Sisk Dam Raise	\$440
Groundwater Banking (new project)	\$280
Dam retrofits (all 5 projects)	\$2,253

Current Total: \$5,173,000,000