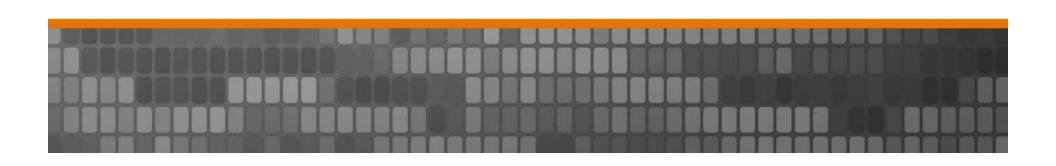


# Groundwater Banking Opportunities in Sacramento County

EBMUD's Perspective

November 14, 2012



### **Presentation Topics**



- Who is EBMUD?
- SCWA & EBMUD Develop Freeport
- EBMUD's Water Needs (WSMP 2040)
- Potential Groundwater Banking/Source Water
- Partnership Opportunities
- Next Steps/Closing Remarks

### East Bay Municipal Utility District

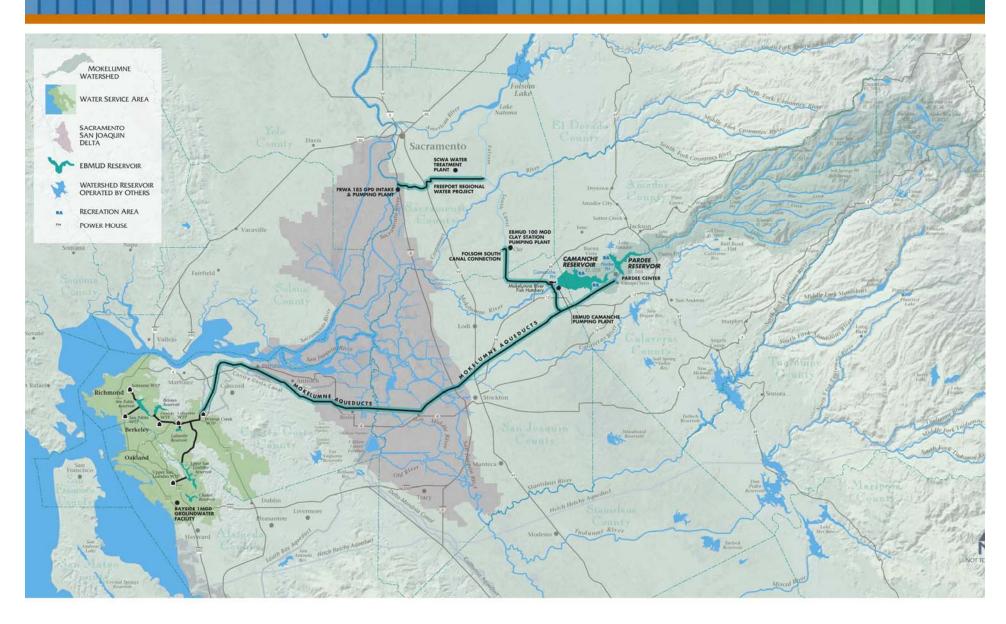


- Publicly-owned utility created in 1923
- Serves Alameda and Contra Costa Counties
- Annual budget:
  - Operating \$461M
  - Capital \$262M
- Approximately 1750 employees
- Provides water and wastewater services



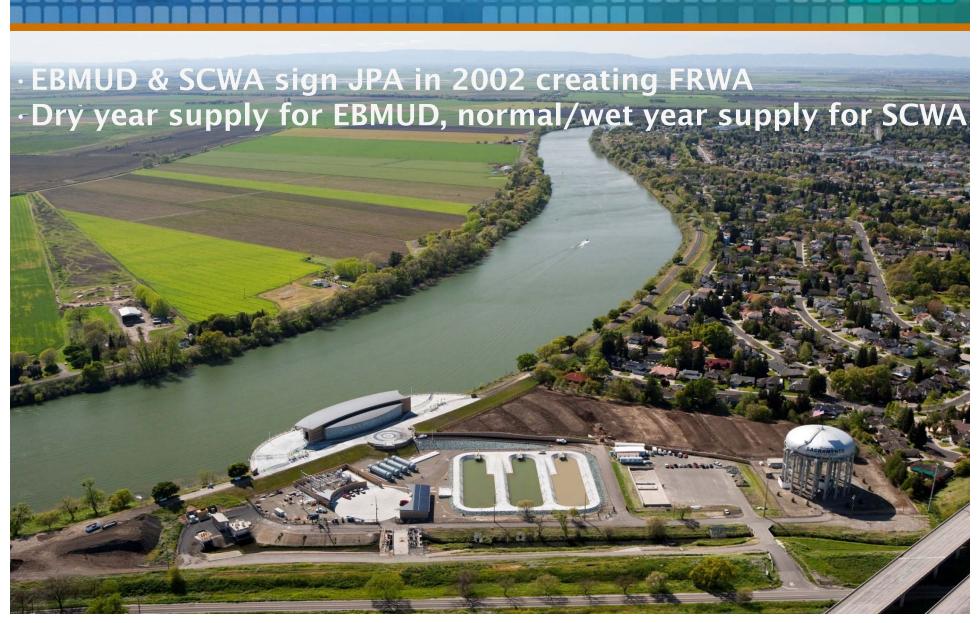
# EBMUD's Mokelumne Source Water Supply System





## Supplemental Supply - Freeport





# Freeport Regional Water Project Facility Description



• 185 mgd Regional Project

- 100 mgd EBMUD

- 85 mgd SCWA

#### FRWA

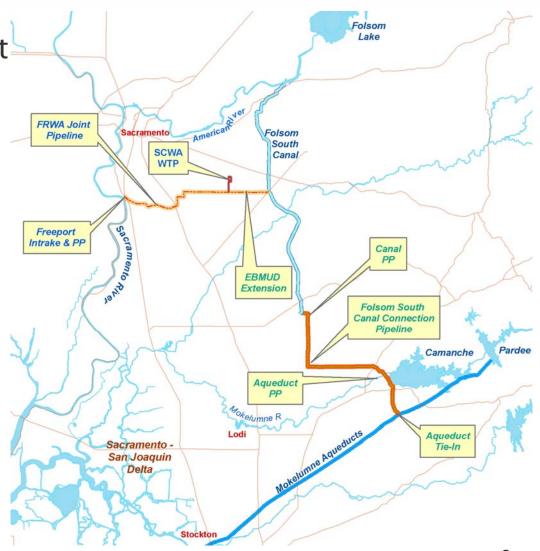
- Sacramento River intake north of Freeport
- 12 miles of 84" pipeline

#### SCWA

- Treatment plant
- 1 mile of 66" pipeline

#### • EBMUD

- Two pumping plants
- 22 miles of 72" pipeline
- Tie into existing aqueducts



### **FRWA Operations**



#### Who Operates?

- SCWA under contract with FRWA (intake and pipeline up to SCWA WTP turnout)
- EBMUD operates EBMUD extension pipeline and all Folsom South Canal Connection (FSCC) facilities

### When Operated?

- SCWA operates FRWA every year
- EBMUD anticipates using Freeport 3 out of every 10 years for dry year needs
- EBMUD CVP Contract is triggered when EBMUD system storage is below 500 TAF

### Unassigned Capacity

- SCWA & EBMUD are interested in negotiating with interested parties the use of unassigned capacity, both in the short and long terms.

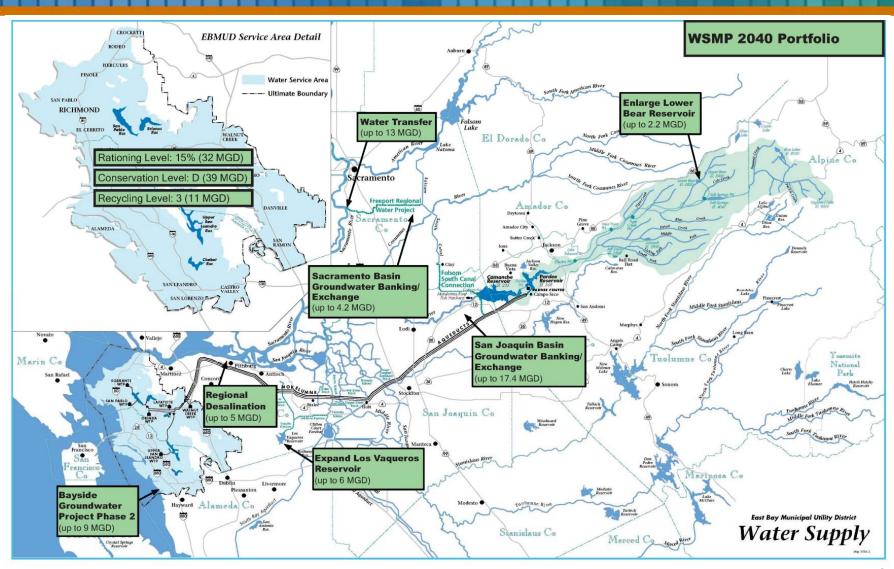
# EBMUD's Water Needs (Beyond Freeport)



- The 2040 Water Supply Management Plan identified future demands and potential supplemental supply sources (approved by EBMUD Board in 2012)
- Normal and Wet Year Supply is sufficient
- Need up to 115 TAF additional dry year supply over the 3 year drought planning sequence
- Preferred Portfolio identifies potential projects, when combined, can address supplemental need

### EBMUD's Portfolio for 2040





# Water Sources, Conveyance, Storage, and Extraction



#### Water Sources

- Water transfers from the Sacramento River Basin upstream of Freeport
- Available excess local, state or federal water

### Scenarios to Convey & Store Water

- Wet/Normal Year Water conveyed via Freeport facilities and diverted to percolation/injection/in lieu sites in Sacramento County.

### Water Delivery to EBMUD

- Water extracted from basin, delivered to FSC to meet dry-year need (3 out of 10 years)
- Water taken in-lieu via FSC, assuming an exchange with an area interest.
- Open to other configurations

# Characteristics of a Regional Groundwater Project



- Provides additional water for groundwater recharge in Sacramento County
- Provides dry year water supply to EBMUD
- Widely supported by Sacramento area interests (agencies, NGOs, agricultural community)
- Consistent with the Water Forum Agreement and Central Sacramento County GMP
- Provides environmental benefit
- Reasonable cost versus alternatives
- Maximizes use of existing facilities

# What EBMUD could contribute to a Regional Partnership



**Infrastructure** FRWA faci

FRWA facilities may be used to convey Sacramento River water to the FSC (and potential percolation/injection sites)

Water

EBMUD is investigating water transfer opportunities, wet year water best fit for storage

**Funding** 

EBMUD is open to cost sharing with interested regional partners, depending on the benefits shared.

### Potential Issues/Needs



- Water Accounting Framework must be developed
- Acceptance of EBMUD taking stored water and exporting it
- Identify/resolve issues with storage and extraction of state or federal water
- EBMUD will support, but not lead the project

### Closing Remarks/Next Steps



### Closing Remarks

- Any Questions?
- Contact Mike Tognolini <u>mtognoli@ebmud.com</u> or (510) 287-0125