



Update on Arvin-Edison Groundwater Storage Program

Joint Meeting of the Water Planning and
Stewardship Committee and Conservation and Local
Resources Committee

Item 6d

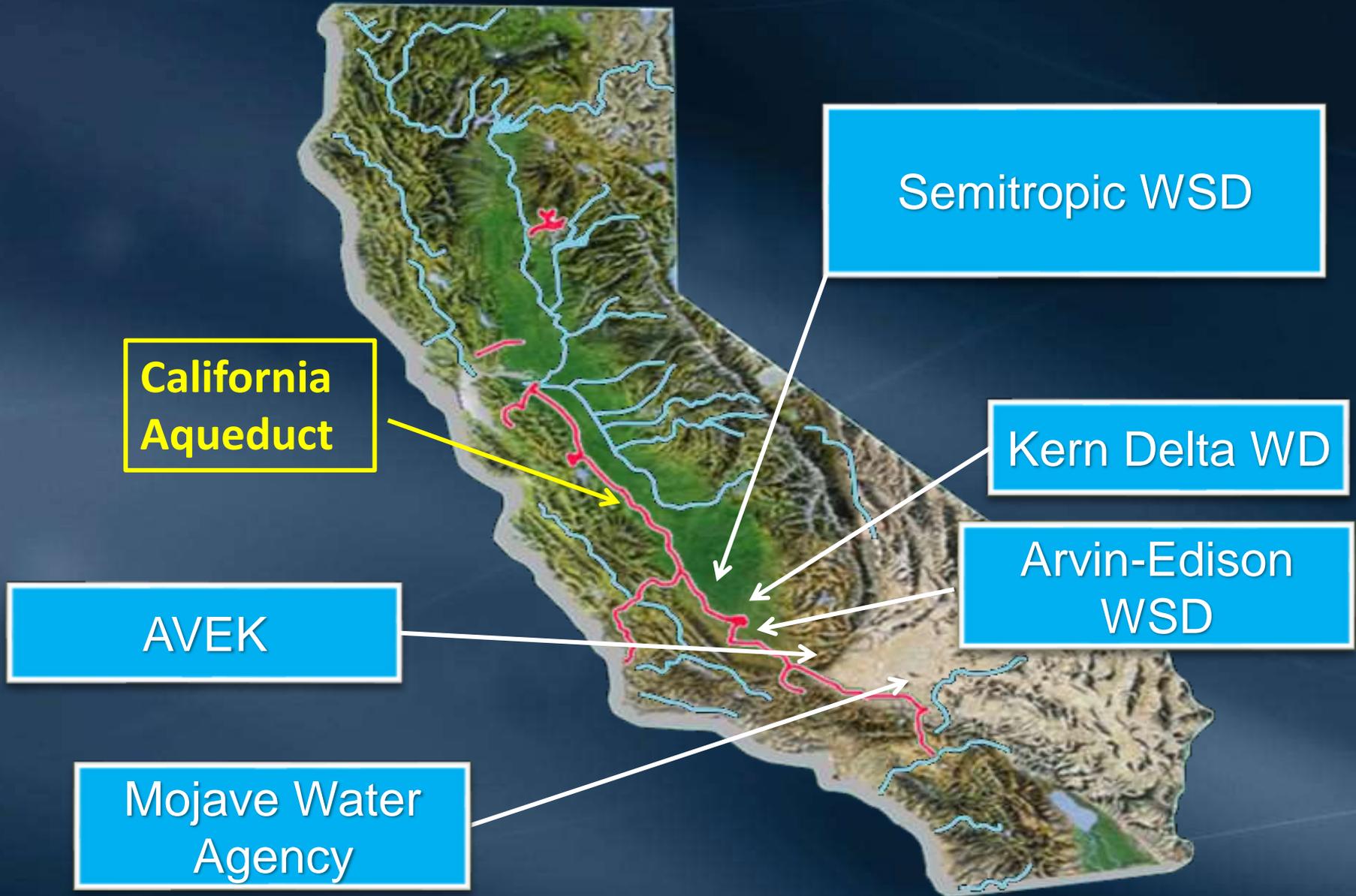
January 11, 2021

Arvin-Edison Storage Program

Introduction

- Arvin-Edison Program has been negatively impacted by 1,2,3-TCP detected in groundwater
- Arvin-Edison and Metropolitan would like to find approaches that continue to provide mutual benefits
- Metropolitan has benefited from the program, but the 1,2,3-TCP is limiting current program operation
- Discussion in closed session regarding legal issues

SWP Groundwater Storage Programs



SWP Groundwater Storage Programs



Arvin-Edison Storage Program Description



- Started: 1997
- Termination: 2035
- Storage Capacity: 350,000 AF
- Loss Factor: 10% One-Time on Put
- Put Capacity: Minimum 45,000 AFY
- Take Capacity: 40,000 AFY to 75,000 AFY

Arvin-Edison Storage Program Performance

- Store water by in-lieu of groundwater pumping or direct recharge in basins
- Maximum delivery (2000): 132,000 AF
- Recover water by direct pumpback to the California Aqueduct or by exchange
- Maximum take: (2009): 82,000 AF
- Balance in storage: 142,000 AF



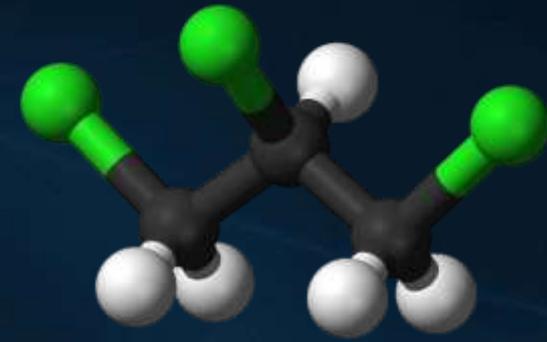
Arvin-Edison Storage Program Investment/Costs

- Total Program Cost to date: \$131 million
- Current Program Operating Costs
 - Puts: ~ \$165/AF
 - Takes: ~ \$180/AF
 - Full Cycle Cost: ~ \$345/AF
- Water Quality Sub-Account – reduces put costs by \$59/AF

Water Quality Sub-Account

- WQSA is a specific operation of the storage program to provide Metropolitan water quality benefits while not increasing program costs
- WQSA provides operational benefits to Arvin-Edison by helping them manage supplies
- Arvin-Edison supplies can be lower in bromide and organic carbon than State Water Project supplies
- WQSA Operation: ~ 166,000 AF
- Metropolitan receives a credit on a future put cost for every acre-foot cycled

1,2,3-TCP



- 1,2,3-TCP: 1,2,3,-Trichloropropane
- MCL: 5 ppt or 0.00000000000005 grams/liter
- MCL applies to public water systems
- Carcinogenic
- Early 2018 learned that several Arvin-Edison wells were impacted by 1,2,3-TCP
- DWR Pump-In Policy Limits Return
- Metropolitan suspended program operation

Arvin-Edison Future



- Continue to recover water by exchange when supplies can be managed and within DWR Pump-In Policy
- Continue to look at ways to restore dry year reliability with operational changes, treatment, and exchanges
- Look at extending agreement term
- Arvin-Edison Storage Program has been an important part of Metropolitan's water resource mix

