

# Consolidating the Water Convention Alternatives

(Agenda Item 15; Documents 15a, 15b)



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# Overview of Discussion

- Goals
- Process and state of the work
- Examples of proposed consolidated alternatives (CAs)



# Goals

- Capture range of high-level ideas that people from the community
- Balance need to have a manageable number of CAs
  - in terms of time, clarity, and resources



# Process and State of the Work

- Compile full list of WCAs
- Group similar WCAs to reduce redundancy
- Capture full breadth of project types
- Clearly demonstrate what happened to each WCA



# Typical Process and State of the Work—Example of Combining Steps

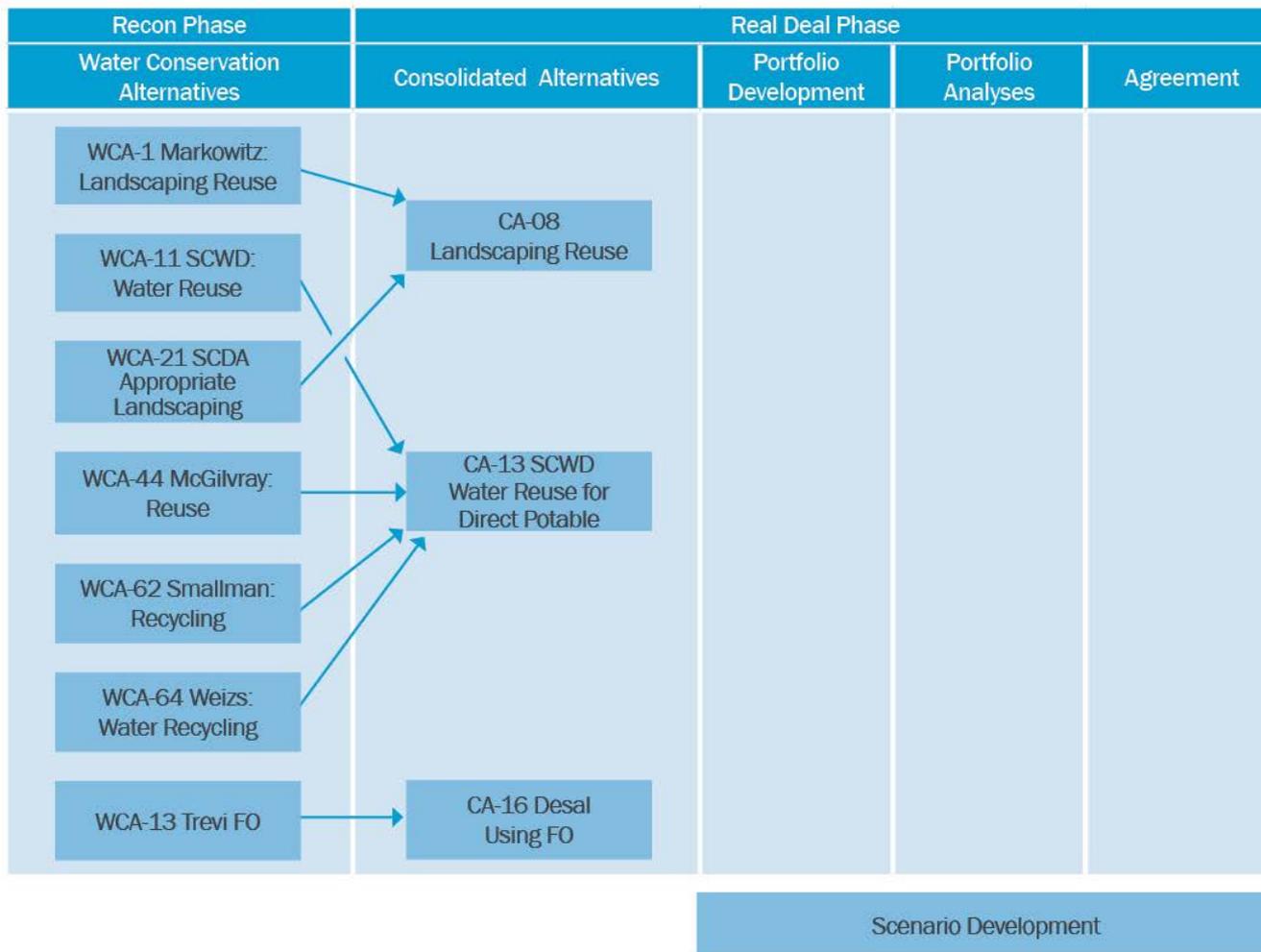


FIGURE 1 FLOW SCHEMATIC FOR PORTFOLIOS DEVELOPMENT

# Process and State of the Work—Example Components Req'd for Complete CA

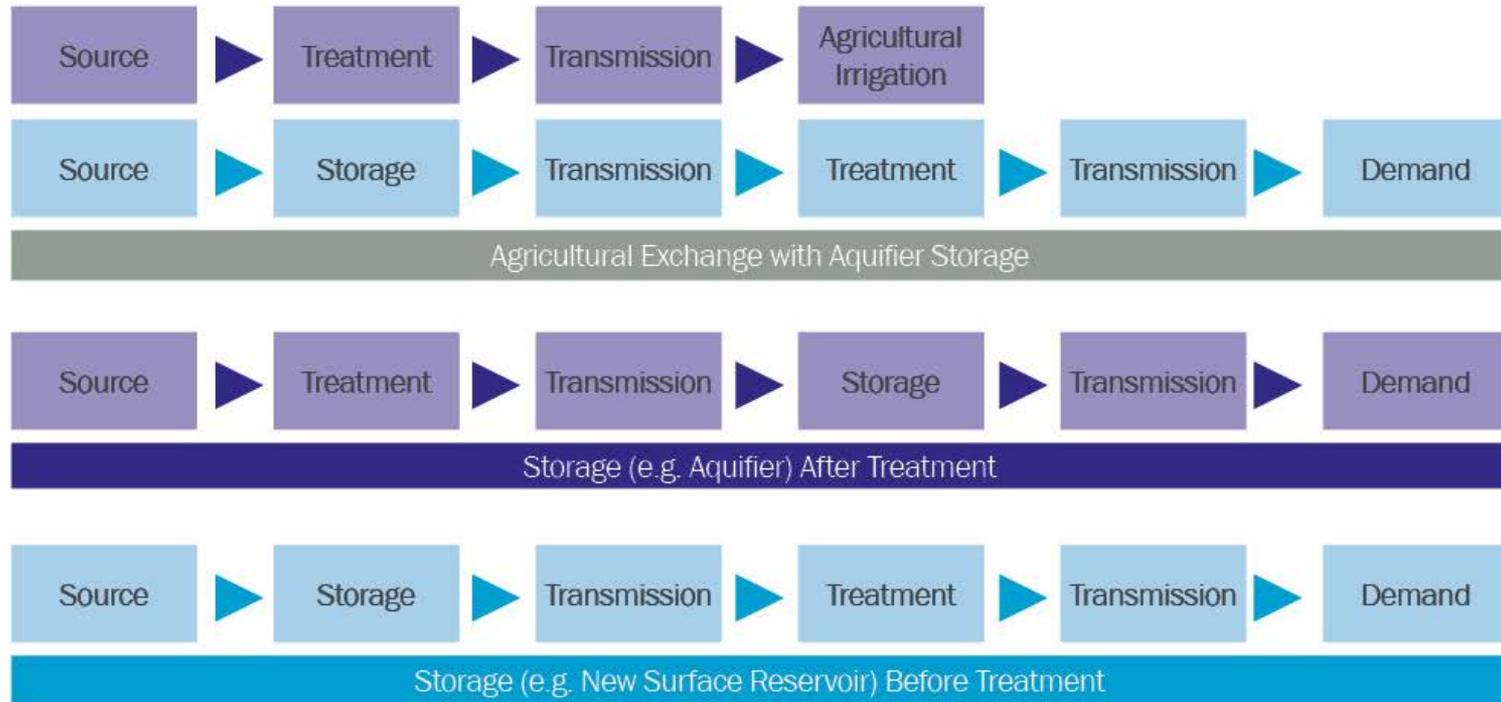


FIGURE XX SCHEMATIC OVERVIEW - KEY COMPONENTS FOR EXAMPLE NON-WATER EFFICIENCY CONSOLIDATED ALTERNATIVES



# Example CAs:

## Expanded treatment capacity

- Assumptions
  - New 14 MGD water treatment plant at the Tait Street Diversion
  - Pipe treated water directly into distribution system
  - Send excess water to City's Live Oaks wells, Soquel Creek Water District, or Scotts Valley Water District for aquifer storage and recovery



# Example CAs: Expanded treatment capacity

- Reasoning
  - Captures intent of WCA-06 McKinney: Expanded Treatment Capacity, and WCA-27 Malone: Enhanced Storage and Recovery
  - New WTP would replace the Graham Hill WTP (GHWTP) with a modern, more seismically durable facility, obviating need to upgrade the GHWTP



# Example CAs: Off-stream water storage

- Assumptions
  - Convert Liddell Quarry into a surface-water reservoir to create new storage
  - Water diverted from existing surface-water rights would fill new reservoir during average-rainfall and wet years



# Example CAs: Off-stream water storage

- Reasoning
  - Captures high-level intent of WCA-05 Bevirt: North Coast Quarries (modified to include diversion of water from City existing sources); WCA-26 Fieberling: Expand Storage (addresses off-stream storage); WCA-30 McGilvray (2): Quarries for Water Storage; WCA-32 SCWD: Zayante Dam and Reservoir; WCA-33 Smallman: Reservoirs; and WCA-34 Smallman: Storm Aquarries
  - All propose to store diverted surface water in surface-storage reservoirs



# Example CAs: Off-stream water storage

- Reasoning
  - Not capturing all of the specifics for each WCA
  - CA incorporates this high-level idea:  
off-stream storage drawing water under the City's existing water rights
  - Selected a quarry site because it would eliminate associated environmental and political issues that would flow from damming an existing channel



Questions?

