Draft Supplement to the Final Environmental Impact Statement / Environmental Impact Report
Public Hearings
July 2017
CEQA/NEPA Previous Milestones

- CCWD and Reclamation completed the Draft EIS/EIR in February 2009
  - Included alternatives for reservoir expansion to 160 TAF and 275 TAF
- CCWD and Reclamation completed a Final EIS/EIR for LVE in March 2010
  - Selected Alternative 4 (160 TAF) for near term implementation
  - Included Timing Variant to describe future expansion to 275 TAF
- CCWD filed the Notice of Determination for Phase 1 Expansion in April 2010
- Reclamation issued Record of Decision for Phase 1 Expansion in March 2011
- CCWD completed Phase 1 Expansion in July 2012
  - Expanded reservoir from 100 TAF to 160 TAF

*Note: TAF is thousand acre-feet*
CEQA/NEPA Process

• CCWD and Reclamation prepared Draft Supplement to the Final EIS/EIR to evaluate:
  • Changed conditions in the project setting
  • Updated demands from local agency potential partners and wildlife refuges
  • Refined facilities and alternatives
  • Modifications to project operations
  • Quantitative analysis of climate change scenarios
CEQA/NEPA Process

- Draft Supplement document is posted to web
  - CCWD website: www.ccwater.com/lvstudies
  - Reclamation website: www.usbr.gov/mp/vaqueros/index.html
- CD copies available on request (send email to lve@ccwater.com)
- Notice of Availability published in Federal Register
- Notice of Completion filed with State Clearinghouse
- Additional notices filed with County Clerks
  - Contra Costa, Alameda, Amador, and Calaveras
- Direct mailing of CEQA Notice of Availability to parties that previously commented
- Please submit written comments by 5:00 p.m. on Tuesday, September 5, 2017
CEQA/NEPA Process

Planning Objectives unchanged from 2009

• **Primary**
  – Develop water supplies for environmental water management
  – Increase water supply reliability

• **Secondary**
  – Improve the quality of water deliveries
Potential Partners

- Alameda County Flood Control & Water Conservation District, Zone 7 (Zone 7 Water Agency)
- Alameda County Water District
- Bay Area Water Supply and Conservation Agency
- Byron-Bethany Irrigation District
- City of Brentwood
- Grassland Water District
- East Bay Municipal Utility District
- East Contra Costa Irrigation District
- San Francisco Public Utilities Commission
- San Luis & Delta-Mendota Water Authority
- Santa Clara Valley Water District
## Local Agency Water Supply and Demand

<table>
<thead>
<tr>
<th>Partner Agency</th>
<th>Water Source*</th>
<th>Demand</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACWD</td>
<td>SWP Allocation Water transfers</td>
<td>Up to 24 TAF/yr in drier years</td>
<td>reserved storage of 10 TAF</td>
</tr>
<tr>
<td>BAWSCA</td>
<td>--</td>
<td>10 TAF/yr in drier years</td>
<td>reserved storage of 10 TAF</td>
</tr>
<tr>
<td>BBID</td>
<td>BBID pre-1914 right</td>
<td>20 TAF/yr in critically dry years; fall demand in dry months</td>
<td>reserved storage of 30 TAF</td>
</tr>
<tr>
<td>Brentwood</td>
<td>ECCID Contract</td>
<td>For water quality blending</td>
<td>reserved storage of 5 TAF</td>
</tr>
<tr>
<td>EBMUD</td>
<td>Mokelumne River right</td>
<td>Up to 30 TAF/yr in drier years</td>
<td>option to call on stored water</td>
</tr>
<tr>
<td>ECCID</td>
<td>ECCID pre-1914 right</td>
<td>For water quality blending</td>
<td>reserved storage of 6 TAF</td>
</tr>
<tr>
<td>SCVWD</td>
<td>CVP, SWP Allocation</td>
<td>At least 10 TAF/yr in drier years and for groundwater recharge</td>
<td>reserved storage of at least 20 TAF</td>
</tr>
<tr>
<td>SFPUC</td>
<td>--</td>
<td>16.7 TAF/yr in all years + up to 57 TAF/yr in drier years</td>
<td>None</td>
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<tr>
<td>SLDM WA</td>
<td>Water transfers Level 2 wheeling</td>
<td>Limited by Phase 2 Expansion operational constraints</td>
<td>None</td>
</tr>
<tr>
<td>Zone 7</td>
<td>SWP Allocation</td>
<td>Up to 19 TAF/yr in drier years</td>
<td>preferential storage of up to 5 TAF/yr of Delta Surplus Water in all years</td>
</tr>
</tbody>
</table>

* In addition to Delta Surplus Water
CVPIA South-of-Delta Wildlife Refuges

Habitat managed by
• California Department of Fish and Wildlife (state)
• Grassland Water District (local)
• U.S. Fish and Wildlife Service (federal)

South-of-Delta Refuge Demands

<table>
<thead>
<tr>
<th>Level</th>
<th>Demand (acre-feet)</th>
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</thead>
<tbody>
<tr>
<td>Level 2</td>
<td>271,000</td>
</tr>
<tr>
<td>Incremental</td>
<td>105,500*</td>
</tr>
<tr>
<td>Level 4</td>
<td>105,500*</td>
</tr>
<tr>
<td>Total</td>
<td>376,500</td>
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</tbody>
</table>

*not including conveyance losses

Priority placed on meeting Incremental Level 4
Existing Facilities

- Rock Slough Intake
- Contra Costa Canal
- Mallard Slough Intake
- Old River Intake
- Middle River Intake
- Transfer Pump Station
- Transfer Pipeline
- Los Vaqueros Reservoir
- Los Vaqueros Pipeline
- EBMUD-CCWD Intertie
Proposed Facilities

- New Neroly High-Lift Pump Station
- EBMUD system improvements for increased use of EBMUD-CCWD Intertie
- New Delta-Transfer Pipeline
- Expanded Transfer Facility
- New Transfer-Bethany pipeline
- Expanded reservoir capacity of up to 275 TAF
275-TAF Dam
# LVE Phase 2 Alternatives

<table>
<thead>
<tr>
<th></th>
<th>EXISTING</th>
<th>ALTERNATIVE 1A</th>
<th>ALTERNATIVE 1B</th>
<th>ALTERNATIVE 2A</th>
<th>ALTERNATIVE 4A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LV Reservoir Capacity</strong></td>
<td>160 TAF</td>
<td>275 TAF</td>
<td>275 TAF</td>
<td>275 TAF</td>
<td>160 TAF</td>
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<tr>
<td><strong>Transfer-Bethany Pipeline Capacity</strong></td>
<td>0</td>
<td>300 cfs</td>
<td>300 cfs</td>
<td>300 cfs</td>
<td>300 cfs</td>
</tr>
<tr>
<td><strong>Old River &amp; Middle River Intake Capacity</strong></td>
<td>500 cfs</td>
<td>500 cfs</td>
<td>500 cfs</td>
<td>500 cfs</td>
<td>500 cfs</td>
</tr>
<tr>
<td><strong>Delta-Transfer Pipeline Capacity</strong></td>
<td>320 cfs</td>
<td>500 cfs (total)</td>
<td>500 cfs (total)</td>
<td>500 cfs (total)</td>
<td>320 cfs</td>
</tr>
<tr>
<td><strong>Transfer to LV Pipeline Capacity (fill/release)</strong></td>
<td>200 cfs / 400 cfs</td>
<td>200 cfs / 400 cfs</td>
<td>200 cfs / 400 cfs</td>
<td>200 cfs / 400 cfs</td>
<td>200 cfs / 400 cfs</td>
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<tr>
<td><strong>Transfer Pump Station Capacity</strong></td>
<td>~150 cfs</td>
<td>200 cfs</td>
<td>200 cfs</td>
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<tr>
<td><strong>Neroly High-Lift Pump Station Capacity</strong></td>
<td>0</td>
<td>350 cfs</td>
<td>350 cfs</td>
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<td>350 cfs</td>
</tr>
</tbody>
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Draft Supplement to the Final EIS/EIR – Public Hearings – July 2017
Potential EBMUD Project Components
Potential EBMUD Project Components

- Included in CCWD Supplement to the Final EIS/EIR:
  - Upgrades to EBMUD-CCWD Intertie (pump station or pipeline)
  - Installation of Variable Frequency Drives at Walnut Creek Pumping Plant

- Under separate environmental documentation:
  - Mokelumne Aqueduct Number 2 Relining Project
  - Pretreatment Upgrades at Walnut Creek Water Treatment Plant
Potential EBMUD Project Components

- Use of Freeport Regional Water Project facilities
  - Limited to unused EBMUD capacity
    - October through February of wetter years
    - Subject to availability, as determined by EBMUD
  - Does not use Sacramento County Water Agency capacity
Project Impacts

- Structure of document similar to Draft EIS/EIR
- Impacts Analysis summarized two ways
  - Total Project Impacts (Phase 1 and Phase 2)
  - Incremental Impacts (Phase 2 Expansion)
- Landside Resources
  - Reflects updated facilities (generally reduced impacts)
  - Impacts vary by resource category and generally range from no impact, less than significant, and less than significant with mitigation
  - Significant and unavoidable impact to Prime Farmland (less than 1 acre)
- Waterside Resources
  - Includes updated modeling results (CALSIM and DSM2)
  - All Delta hydrology/water quality impacts are less than significant
  - All Delta fisheries/aquatic resources impacts are no impact or less than significant
Project Benefits to Local Agencies and Wildlife Refuges

Deliveries to Partners by Water Year Type (Alternative 1B)

Average Annual Deliveries, TAF/year

<table>
<thead>
<tr>
<th>Category</th>
<th>Wet</th>
<th>Above Normal</th>
<th>Below Normal</th>
<th>Dry</th>
<th>Critically Dry</th>
<th>All Years</th>
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</thead>
<tbody>
<tr>
<td>Wet</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Above Normal</td>
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<td>Below Normal</td>
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<td></td>
<td></td>
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<tr>
<td>Dry</td>
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<td></td>
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<tr>
<td>Critically Dry</td>
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<tr>
<td>All Years</td>
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</tr>
</tbody>
</table>

Legend:
- Zone 7
- ACWD
- SCVWD
- EBMUD
- SFPUC + BAWSCA
- Brentwood
- ECCID
- BBID
- Refuge
Project Benefits to CCWD

Alternative 1B:
• Water quality benefits are maintained
  • Slight reduction in salinity in all year types
• Emergency storage benefits are maintained
  • Storage levels are above emergency levels in all year types
• Drought supply benefits are maintained
  • Additional operational flexibility from new facilities and regional operations
• Potential new revenues to CCWD from partners that receive benefits from using CCWD facilities
Next Steps: Schedule

- **July 2017**: Public hearings
- **August 2017**: CWC Funding Application
- **September 2017**: Comments on Draft Supplement due by 5:00 p.m. on Tuesday, September 5
- **January 2018**: Public Draft Federal Feasibility Report
- **June 2018**: Preliminary CWC eligibility and funding decisions
- **November 2018**: Final Supplement to the Final EIS/EIR
  Final Federal Feasibility Report
CEQA/NEPA Public Hearing

• Hearing Officer is Louis Moore, Bureau of Reclamation