



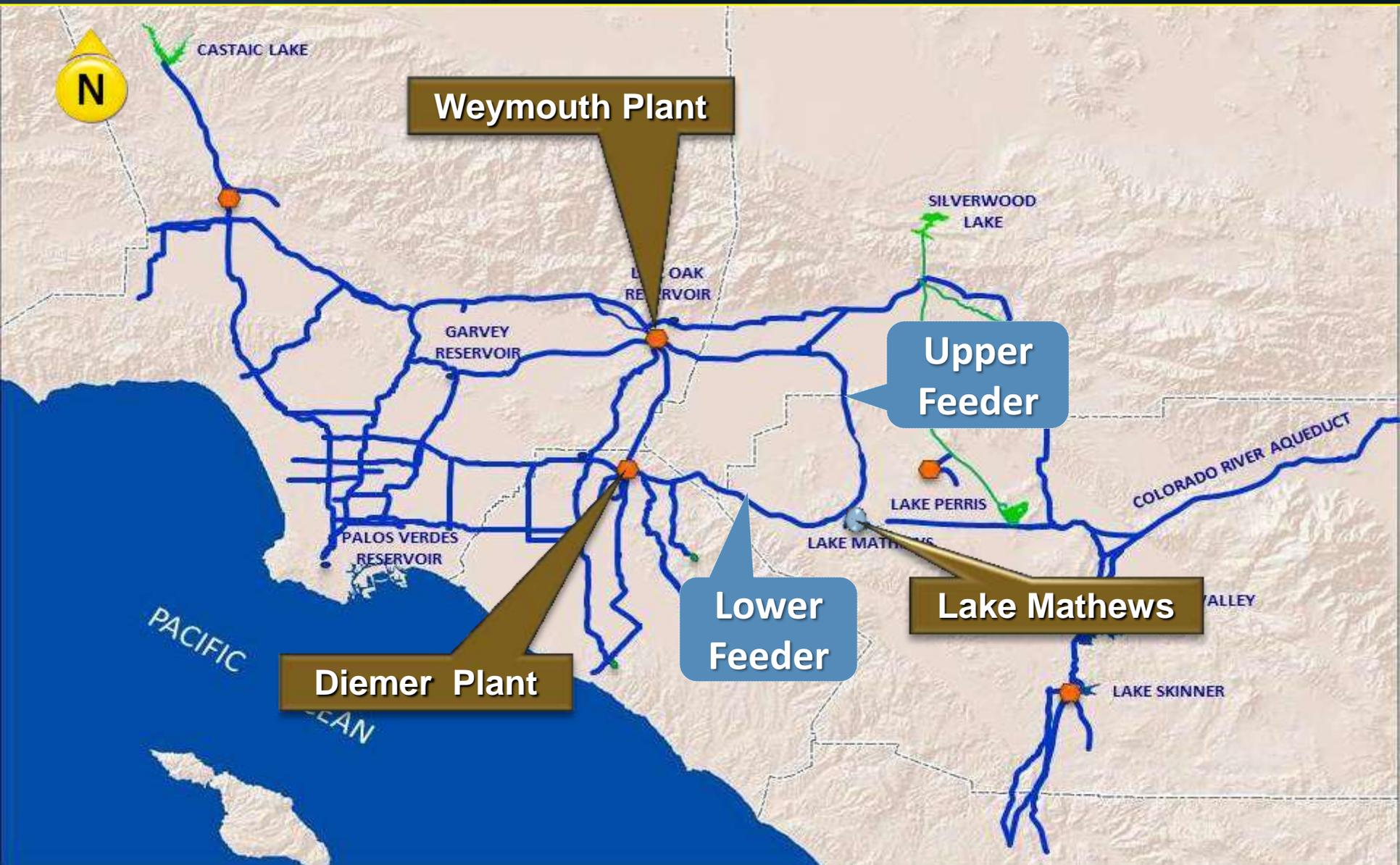
Lake Mathews Forebay Outlet Tower and Lining Repairs

Engineering & Operations Committee
Item 8-1
November 13, 2017

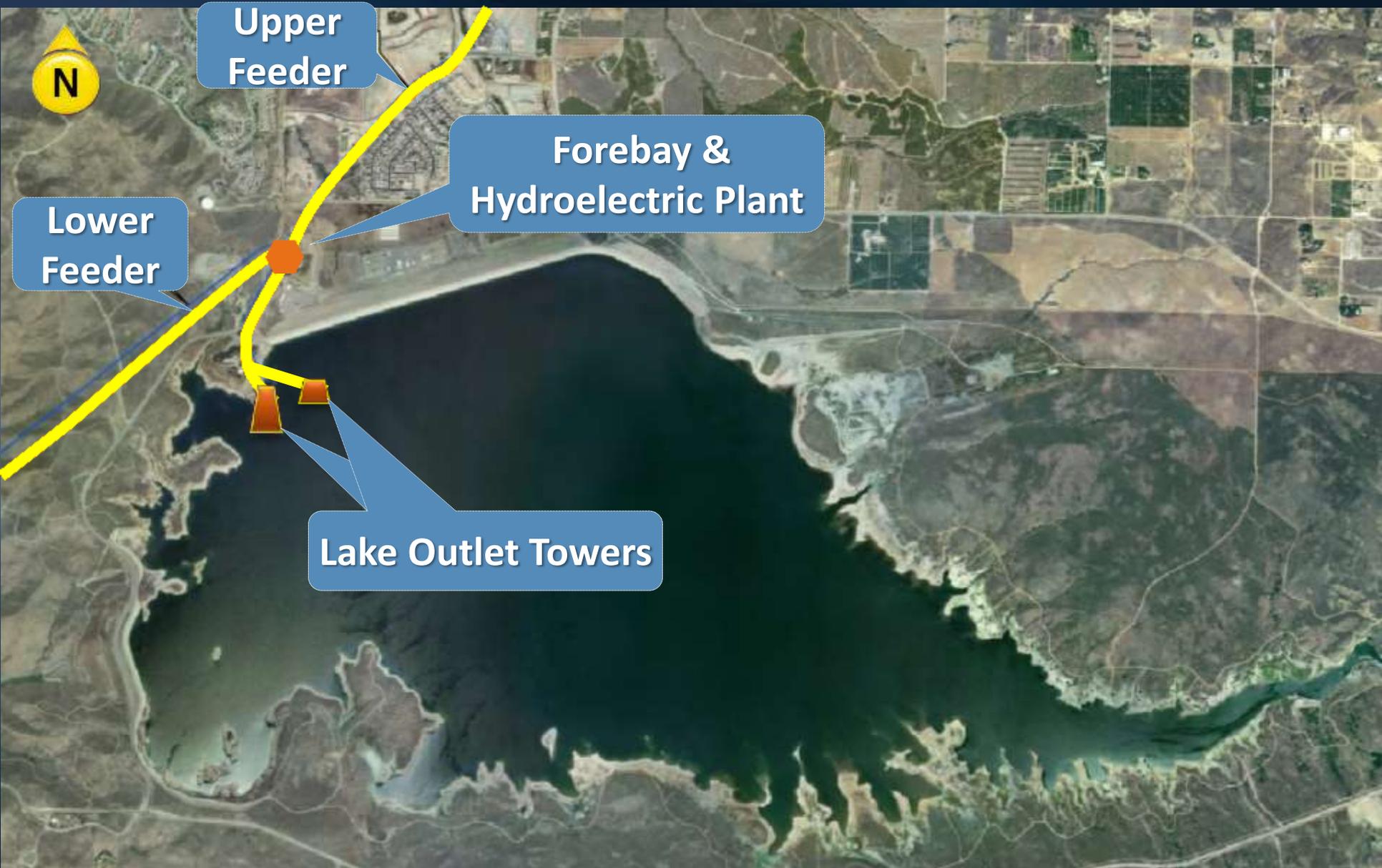
Current Action

- Appropriate \$4,570,000
- Award \$3,248,000 contract to J. F. Shea Construction for repairs to the outlet tower & lining at the Lake Mathews forebay

Distribution System



Lake Mathews



Lake Mathews Forebay

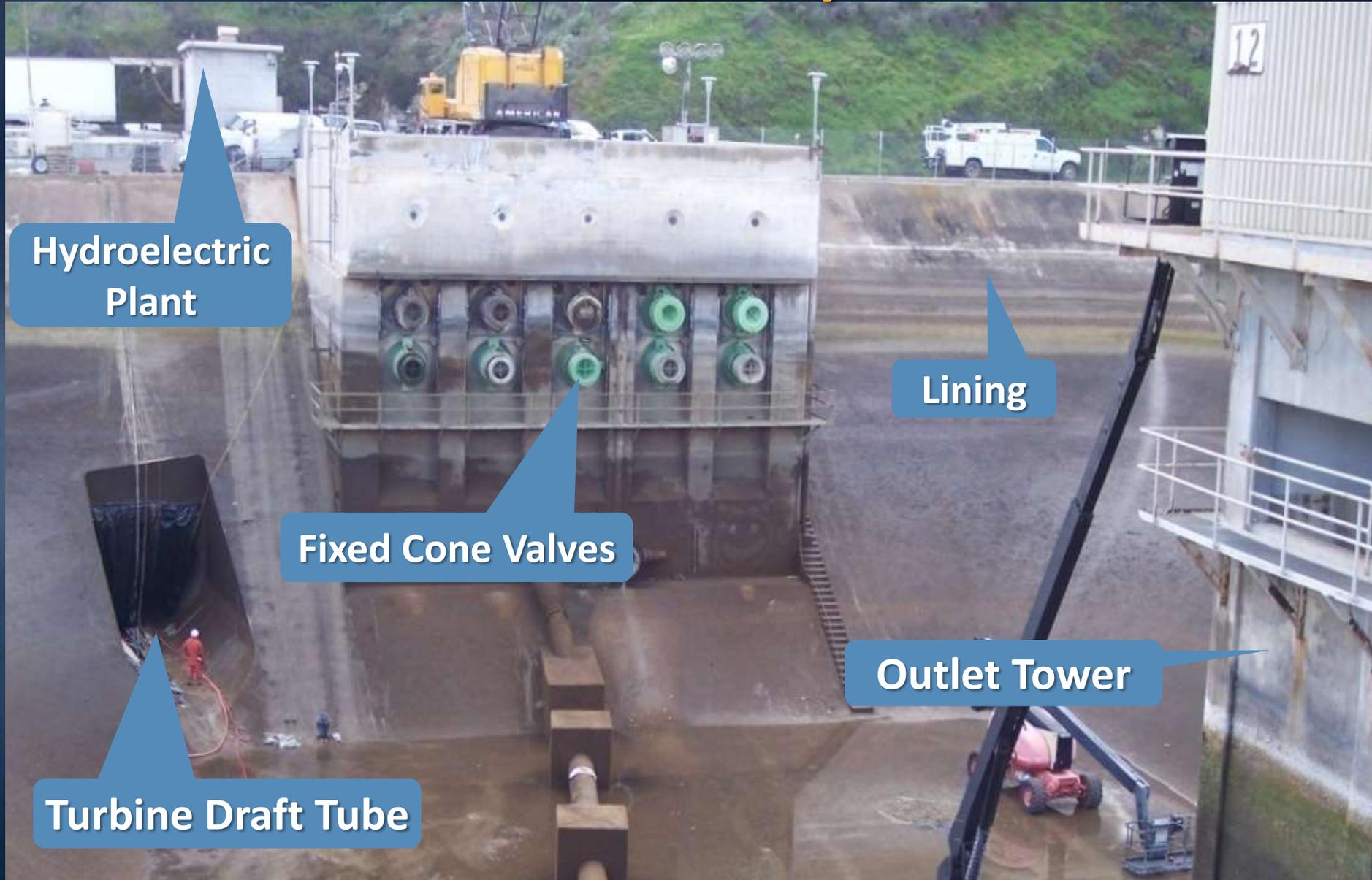
Hydroelectric
Plant

Fixed Cone Valves

Lining

Outlet Tower

Turbine Draft Tube



Background

- Forebay constructed in 1930's
- Outlet tower & lining
 - Exposed & corroded reinforcing steel
 - Corroded steel walkways & control room
 - Spalled concrete

Spalled Concrete &
Corroded Reinforcement



Water Line



Corroded Steel Walkway

Contractor Scope

- Replace damaged concrete & reinforcing steel at lining
- Install corrosion protection system on tower
- Replace control building & walkways



Construction Support Activities

- Metropolitan
 - Construction inspection
 - Shutdown of forebay & pipelines
 - Submittals review & record drwgs.
- HDR Engineering
 - Submittals review & response to RFI's on structural work & cathodic protection
 - SBE participation - 18%
 - Estimated cost - \$65,000
 - Exist. agreement – No action required

Shutdown

- February 2018 shutdown
 - 7-day shutdown of Upper & Lower Feeders & forebay
 - Allows contractor to install tower scaffolding
- Special operating condition
 - Limited flow restrictions for Upper & Lower Feeders from Dec. 2017 to Aug. 2018
- No delivery impacts to member agencies

Forebay Tower and Lining Repairs

Bid Results

Specifications No. 1910

Bids received	October 4, 2017
No. of bidders	3
Low bidder	J. F. Shea Construction
Low bid	\$3,248,000
Other bids	\$3,546,000 & \$6,817,500
Engineer's estimate	\$3,300,000
SBE participation	15%

Requested Funds

Labor

Const. inspection	\$ 400,500
Submittals review & record drwgs.	265,000
Project mgmt. & controls	79,000
Metropolitan force support	132,500
HDR Engineering	65,000
Construction contract	3,248,000
Remaining budget	380,000

Total **\$ 4,570,000**

Total const. cost - \$ 3,380,500

Schedule



Final Design



Shutdown



Construction



Completion



Board Action

Board Options

● Option #1

- Adopt CEQA determination that the proposed action is categorically exempt
- Appropriate \$4,570,000
- Award \$3,248,000 contract to J. F. Shea Construction to repair the outlet tower & lining at the Lake Mathews forebay

● Option #2

- Do not proceed with construction at this time

Staff Recommendation

- Option # 1

