



Two Rehabilitation Projects at the Weymouth Plant

Engineering & Operations Committee

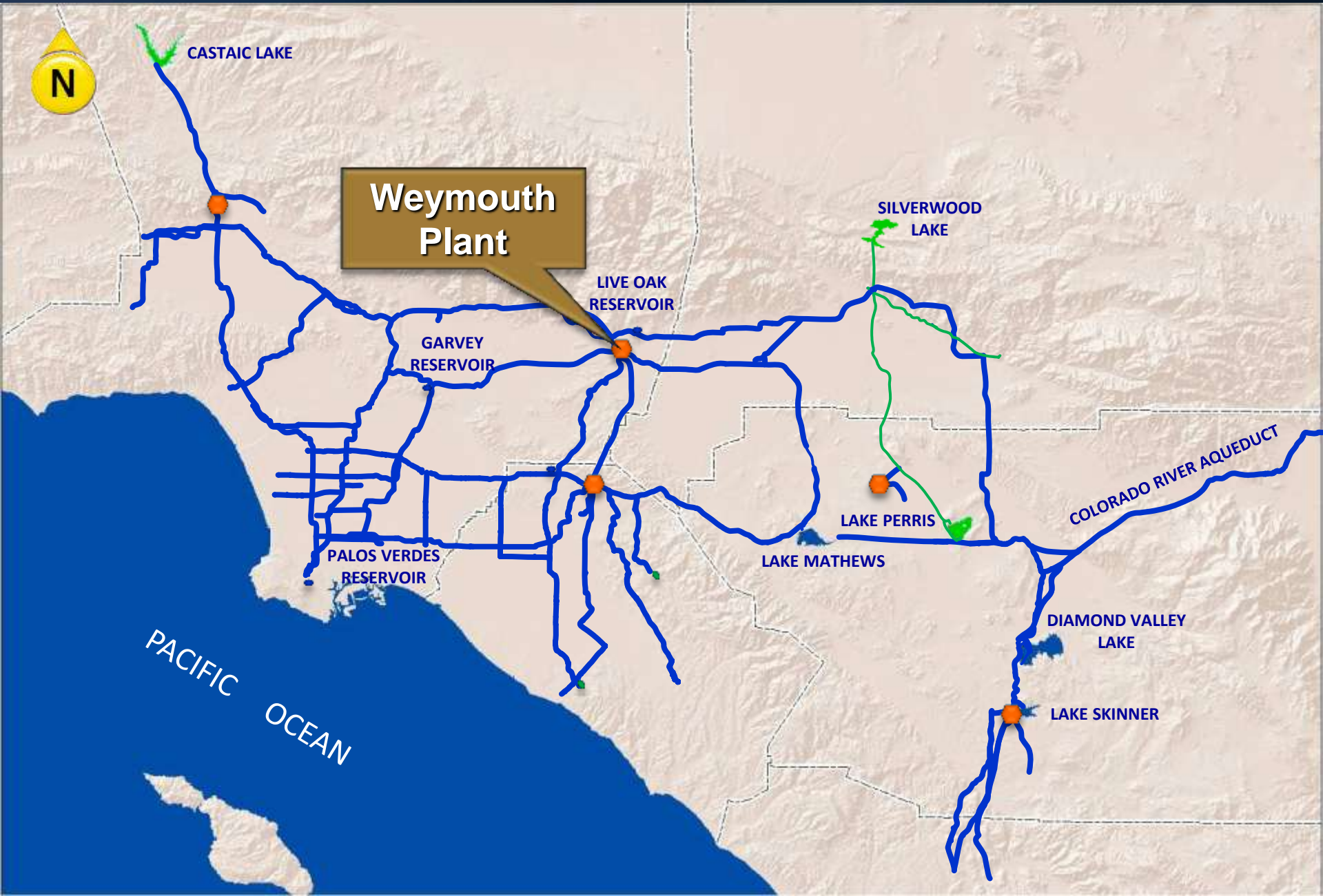
Item 7-1

October 13, 2014

Current Action

- Appropriate \$700,000
- Authorize 2 rehabilitation projects at the Weymouth Plant
 - Final design for improvements to the domestic & fire water system
 - Preliminary design for rehabilitation of Metropolitan's demonstration-scale testing facility

Distribution System



Project Locations



1. Domestic & Fire Water System Improvements

● Background

- Serves chlorine & fire protection systems
- North side of plant supplied by a single pipeline
- Majority of system installed during original construction of Weymouth plant
- Improvements needed to deliver adequate pressure to chemical feed system & on-site facilities



1. Domestic & Fire Water System Improvements

● Planned Improvements

- Complete domestic loop on northwest side of plant
- Install fire hydrants
- Install surge protection equipment

● Final Design Scope

- Secure permits with local fire authority
- Prepare drawings & specifications
- Develop construction cost estimate

● Final design by Metropolitan

● Total estimated construction cost: \$1.9M to \$2.4M

2. Demonstration Testing Facility Rehabilitation

● Background

- Provides critical treatment process & operating information
- Studies provide financial benefit to Metropolitan
- Components of chemical feed & ozone generation systems have deteriorated
- Rehabilitation needed to enhance safety & for continued operation



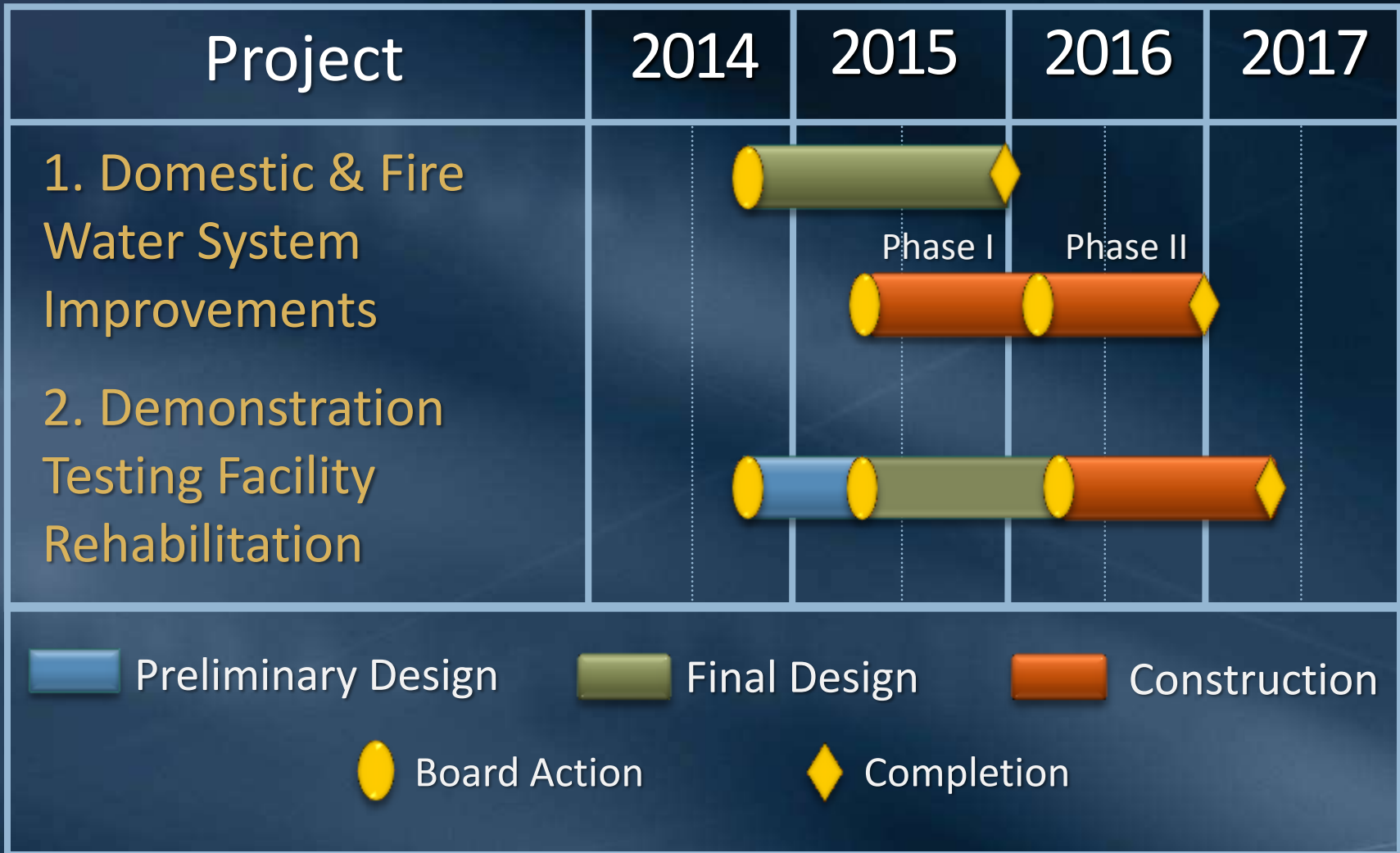
2. Demonstration Testing Facility Rehabilitation

- Preliminary Design Scope
 - Evaluate rehabilitation alternatives
 - Develop final design criteria
 - Develop construction cost estimate
- Preliminary design by Carollo Engineers, Inc.

Requested Funds

	1. Domestic & Fire Water System	2. Testing Facility
Labor		
Final design	\$ 275,000	
Field investigations		\$ 35,000
Proj. mgmt., permitting	98,000	28,000
Professional Services		
Carollo Engineers, Inc.		147,000
Remaining Budget	77,000	40,000
	Subtotal: \$ 450,000	\$250,000
	Total Requested:	\$ 700,000

Project Schedule



Board Options

- Option #1
 - Adopt CEQA determination that the proposed action is categorically exempt
 - Appropriate \$700,000
 - Authorize final design to improve the domestic & fire water system at the Weymouth plant
 - Authorize preliminary design to rehabilitate Metropolitan's demonstration-scale testing facility

Board Options

- Option #2
 - Adopt CEQA determination that the proposed action is categorically exempt
 - Appropriate \$450,000
 - Authorize final design to improve the domestic & fire water system at the Weymouth plant
 - Do not rehabilitate Metropolitan's demonstration-scale testing facility
- Option #3
 - Do not proceed with the two projects at this time

Staff Recommendation

- Option #1

