



Garvey Reservoir Sodium Hypochlorite System Upgrade

Engineering & Operations Committee

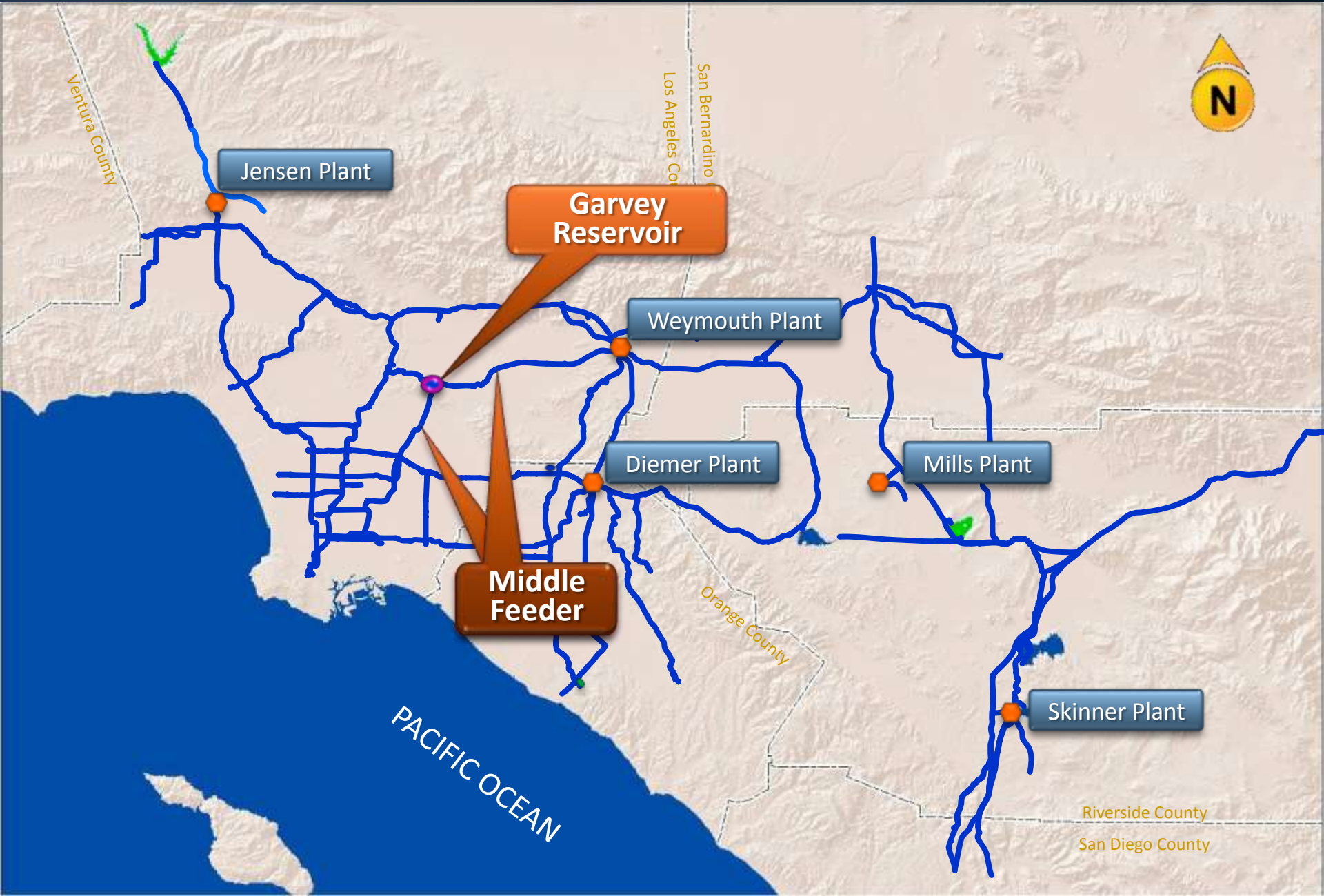
Item 7-6

June 10, 2013

Current Action

- Appropriate \$800,000
- Authorize construction for replacement of the sodium hypochlorite feed system at Garvey Reservoir

Distribution System



Garvey Reservoir



**Sodium
Hypochlorite
Feed System**

Inlet/Outlet Tower

Middle Feeder

Background



- Constructed in 1995
- System Maintains Minimum Chlorine Residual Levels
- System Requires Frequent Repairs
 - Pumps, electrical & control systems at end of service life
 - Piping susceptible to leaking due to weathering

Planned Construction Scope



- Replace Pumps
- Replace All Piping
- Modify Layout to Improve Access for Maintenance
- SCADA Upgrades to Permit Automatic Control
- Upgrade Chemical Containment Sensors & Alarms
- Work Performed by Metropolitan Forces

Requested Funds

Labor

Metropolitan Force Construction	\$ 547,000
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Proj. Controls, Record Dwgs	57,000
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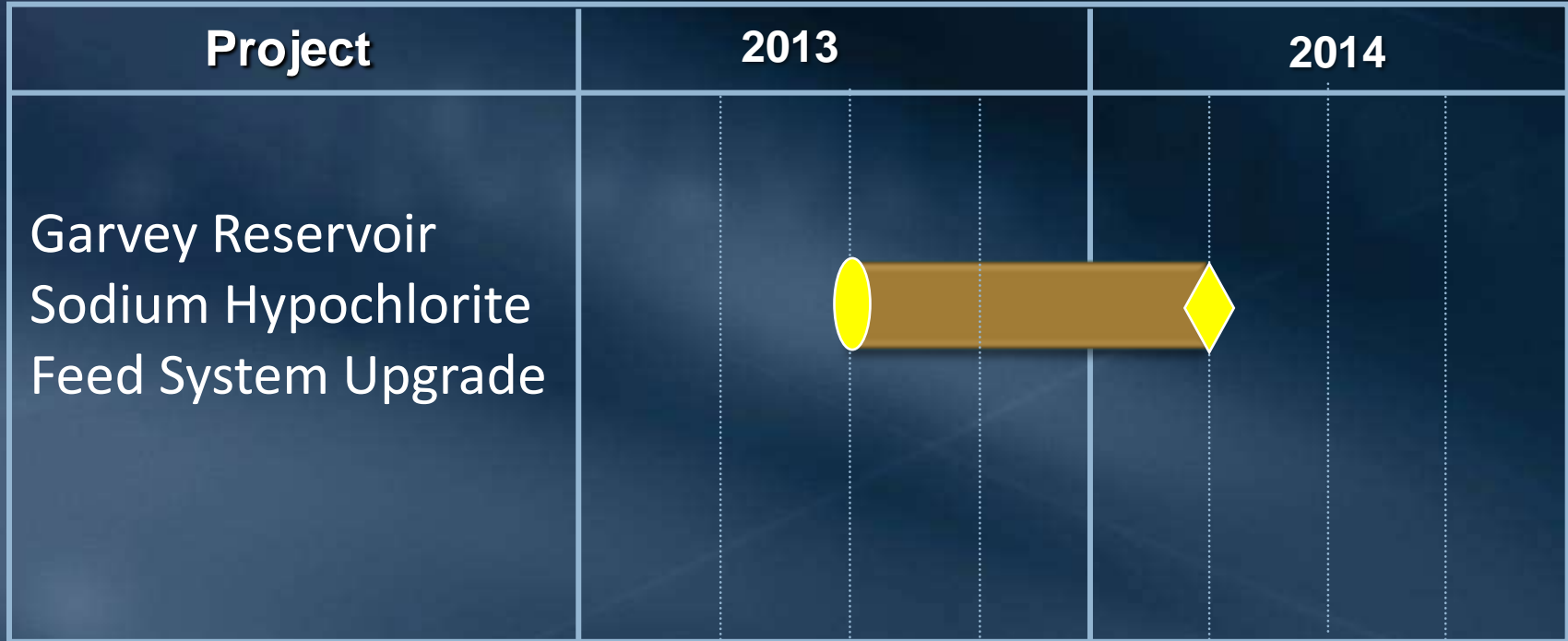
Materials	131,000
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Remaining Budget	65,000
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Total	\$ 800,000
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Total Cost for Construction: \$678,000

Schedule



Construction



Board Action



**Completion of
Construction**

Board Options

- Option #1
 - Adopt CEQA determination
 - Appropriate \$800,000
 - Authorize construction to replace sodium hypochlorite feed system at Garvey Reservoir
- Option #2
 - Do not proceed with project at this time

Staff Recommendation

- Option #1

