



# Four Hydroelectric Plant Rehabilitation Projects

Engineering & Operations Committee

Item 7-5

March 12, 2012

# Current Action

- Appropriate \$1.7M in budgeted funds
- Authorize
  - Final design of rehabilitation projects at:
    1. Foothill Hydroelectric Plant
    2. Sepulveda Hydroelectric Plant
  - Preliminary design of rehabilitation projects at:
    3. San Dimas Hydroelectric Plant
    4. Venice Hydroelectric Plant

# Location of Hydroelectric Plants



# Hydroelectric Plants

## Background

- Plants Constructed in 1980's
- Generate \$24M Annually
- Condition Assessment Completed
  - Electrical components at end of service life
  - Mechanical piping is corroded
- Work Prioritized & Staged



# 1 & 2. Foothill & Sepulveda Plants

- Project Scope of Work
  - Upgrade electrical relays
  - Replace cooling water piping
- Final Design Activities
  - Prepare specifications & drawings
  - Obtain permits
  - Receipt of Bids
- Construction cost \$3.5M-\$4.5M
- All work by Metropolitan staff



# 3 & 4. San Dimas & Venice Plants

- Project Scope of Work
  - Upgrade electrical relays
  - Replace cooling water piping
- Preliminary Design Activities
  - Detailed physical inspection
  - Establish design criteria
  - Review vendor specifications
  - Develop construction cost estimates
- All work by Metropolitan staff



# Requested Funds

	Projects 1 & 2	Projects 3 & 4
Labor		
Proj. Mgmt., Bidding, Environ. Doc.	\$ 214,000	\$ 158,000
Preliminary Design	-	454,000
Final Design	653,000	-
Remaining Budget	123,000	98,000
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TOTAL	\$ 990,000	\$ 710,000

TOTAL REQUESTED: \$1,700,000

# Project Schedule



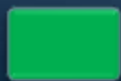
Prelim. Design



Construction



Board Action



Final Design



Project Completion



# Board Options

- Option #1
  - Adopt the CEQA determinations
  - Appropriate \$1.7M in budgeted funds
  - Authorize final design to rehabilitate Foothill & Sepulveda Hydroelectric Plants
  - Authorize preliminary design to rehabilitate San Dimas & Venice Hydroelectric Plants
- Option #2
  - Do not authorize the four projects at this time

# Staff Recommendation

- Option #1

