



# Valve Replacement for Two Operating Regions

Engineering & Operations Committee

Item 7-2

April 9, 2018

# Current Action

- Appropriate \$1,700,000
- Authorize design & procurement to replace valves within the Orange County & Riverside/San Diego County operating regions

# Distribution System



# Background

- Two operating regions
  - Feeders placed into service between 1955 & 1989
  - Approximately 90 deteriorated valves, 1 to 12 inches in diameter
- Valve types
  - Air release/vacuum valves
  - Isolation valves: globe, plug & butterfly
- Future action will address other operating regions

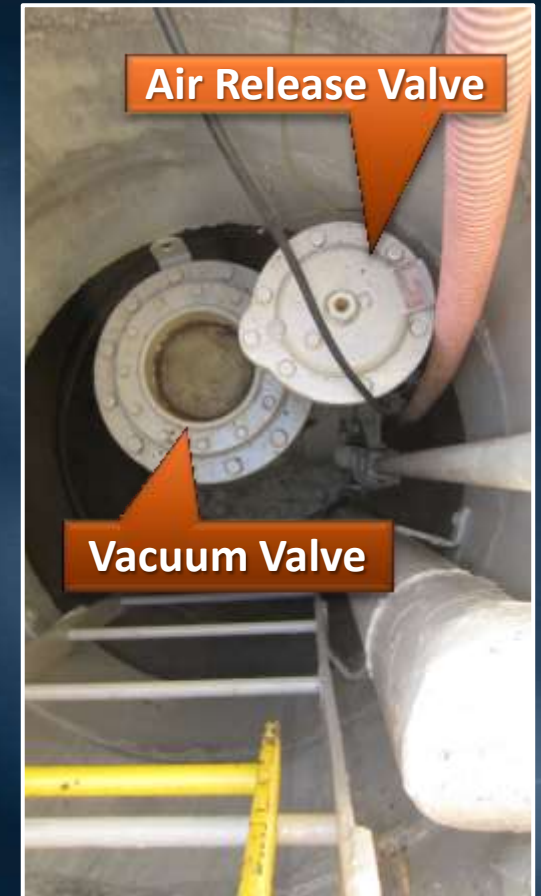


4 & 12-inch plug valves



# Planned Improvements

- Replace 90 isolation & air release/vacuum valves, 1 to 12 inches in diameter
- Relocate 2 air release/vacuum valves from manholes to above-ground cabinets
- Procure 30 spare valves



# Scope of Work

- Procurement of 120 valves via multiple contracts
  - Total cost of valves estimated to be \$921,000
  - Contracts anticipated to be less than \$250,000
    - If a procurement contract exceeds \$250,000, staff will return to Board for award
- Preparation of drawings & specifications for const. contract
- Local agency permitting & shutdown planning
- Development of const. cost estimate
- Receipt of bids for multiple contracts
- All work performed by Metropolitan staff

# Requested Funds

## Labor

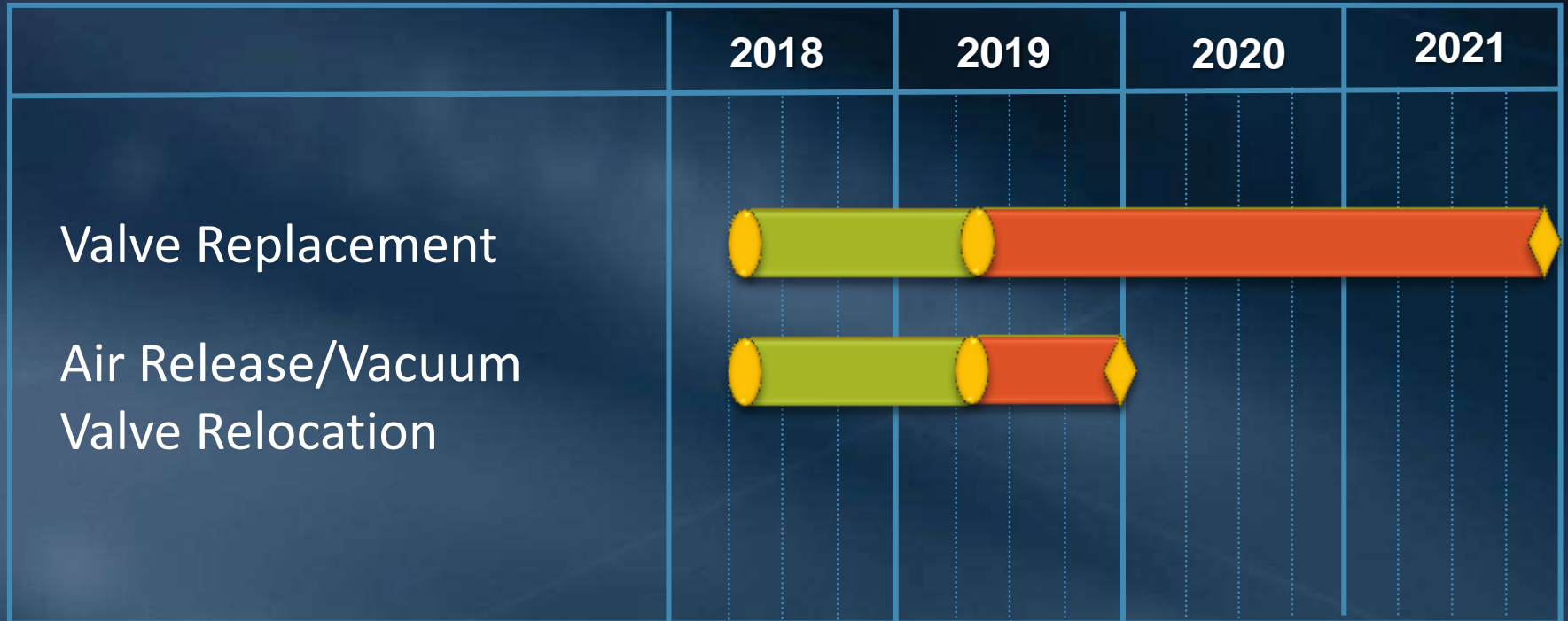
Field investigations	\$ 69,000
Design	380,000
Bidding, permitting, PM	194,000
Submittals review	28,000
Procurement contracts	921,000
Remaining budget	108,000

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<b>Total</b>	<b>\$1,700,000</b>
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Total est. project cost for both regions is \$3.2 M to \$3.8 M

# Schedule



**Final Design & Procurement**



**Construction**



**Completion**



**Board Action**



# Board Options

## ● Option #1

- Adopt CEQA determination that the proposed action is categorically exempt
- Appropriate \$1,700,000
- Authorize design to replace valves within the Orange County & Riverside/San Diego County operating regions

## ● Option #2

- Do not proceed with the valve replacement at this time

# Staff Recommendation

- Option #1

