Board of Directors
Water Infrastructure Projects Tour

October 16, 2018
Water System Overview

Raw Water System
- 7 reservoirs
- Aqueducts

Treatment System
- 3 inline WTPs
- 3 conventional WTPs

Distribution System
- 4,200 miles of pipeline
- 122 pressure zones
- 164 reservoirs
- 135 pumping plants
- 100 regulators/RCS
Service Yard Locations

- North Area Service Center
- Central Area Service Center
- South Area Service Center
- East Area Service Center
Long-Term Infrastructure Investment

- Master plans and studies
- Effective maintenance
- Capital improvement plan
Distribution Pumping Plants

University

Fay Hill

39th & Redwood

Montclair
Distribution Reservoirs

Acorn

Round Hill

Eden
Open-Cut Reservoirs

South

Central

Summit
Goal: Reduce water loss and main break rate
Managing Water Loss and Main Breaks

- Active leak control
- Pressure management
- Speed & quality of repairs
- Infrastructure management
Active Leak Control

- Leak detection
  - Over 2,000 loggers deployed
  - Satellite leak detection
  - Leak correlators
  - Expanding leak detection
Pressure Management

- Break rate increases with pressure
- Break rate increases due to pressure transients
Infrastructure Management

- Pipe replacement goal
  - FY19: 15 miles
  - FY20: 17.5 miles
  - FY21: 20 miles

- Targeted pipe replacement

- Staffing
  - 10 pipeline crews (team goal)
  - Fully-maintained and operated (FM&O) services
  - Support staff

- Improving customer service
Tour Overview

- What’s in your packet
- Tour overview
  - Central Yard
  - Wildcat Aqueduct
  - Evelyn Pipeline Project
  - San Pablo Clearwell
  - Orinda Water Treatment Plant