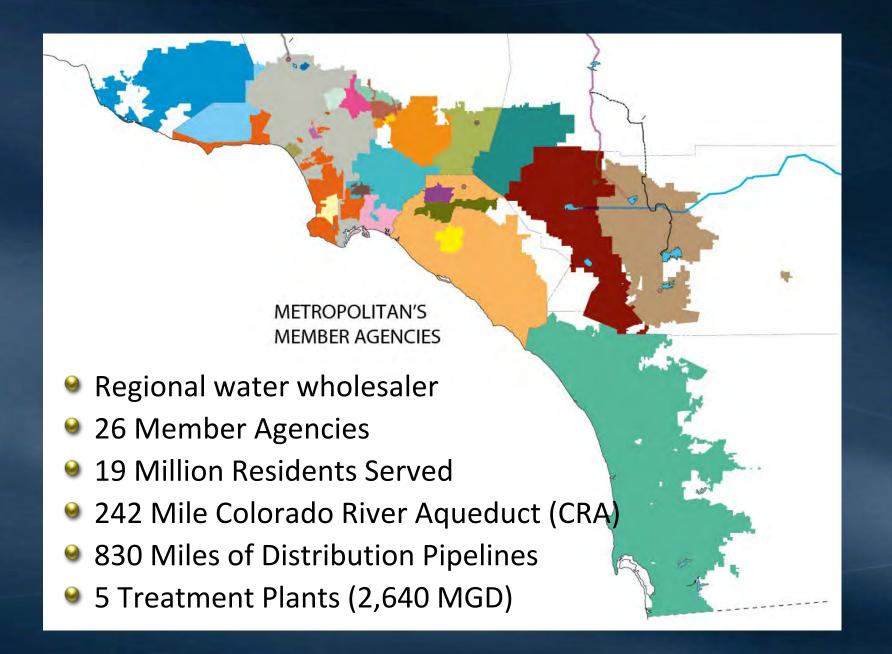


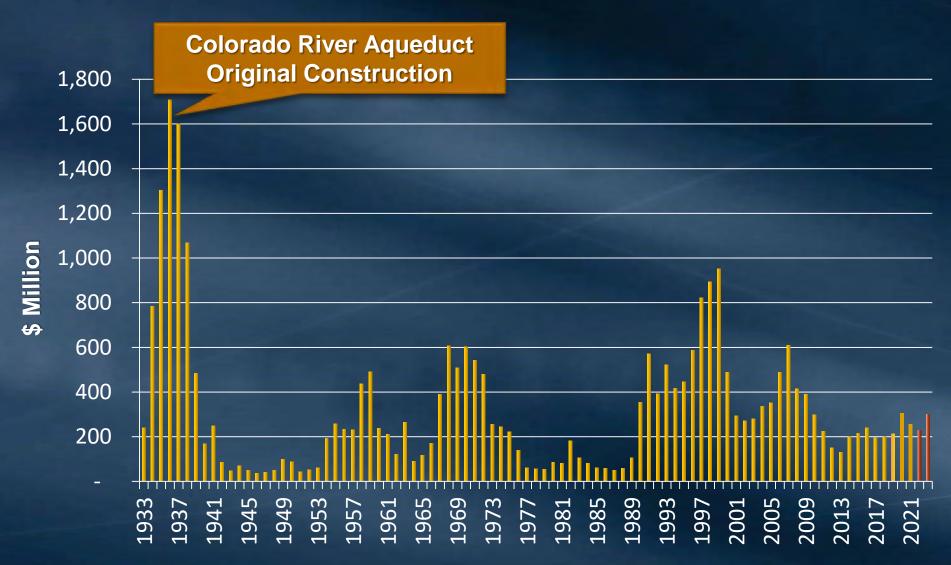
# Metropolitan's Capital Investment Plan

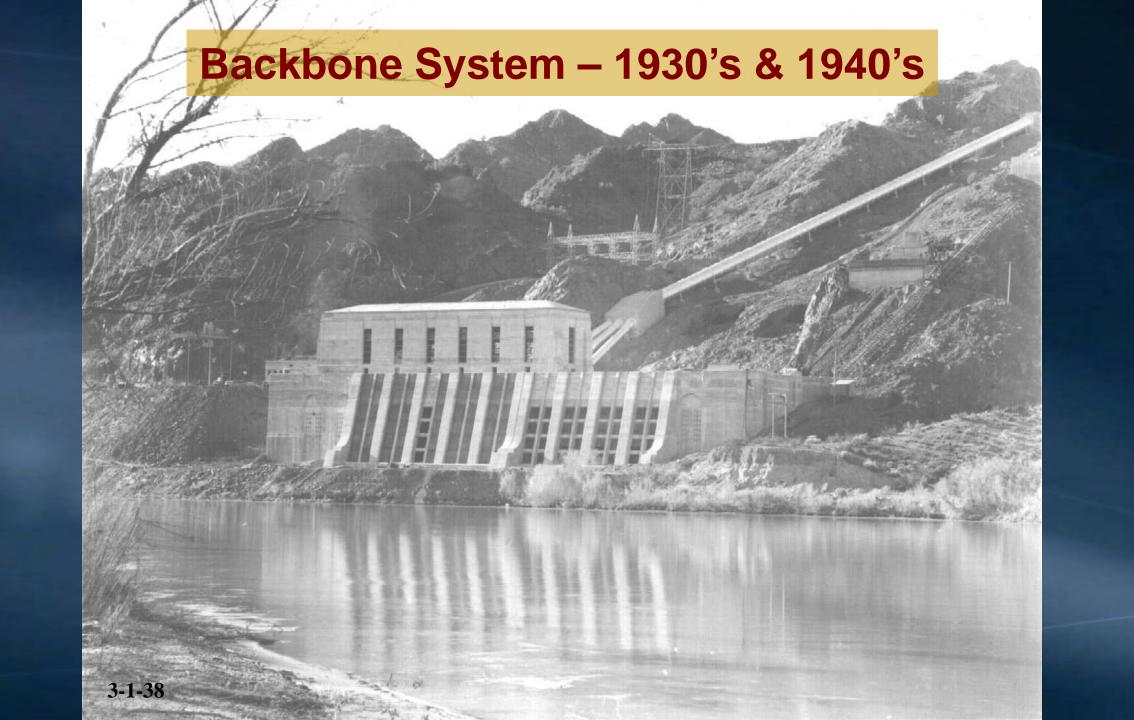
ACEC Los Angeles County Chapter September 22, 2021

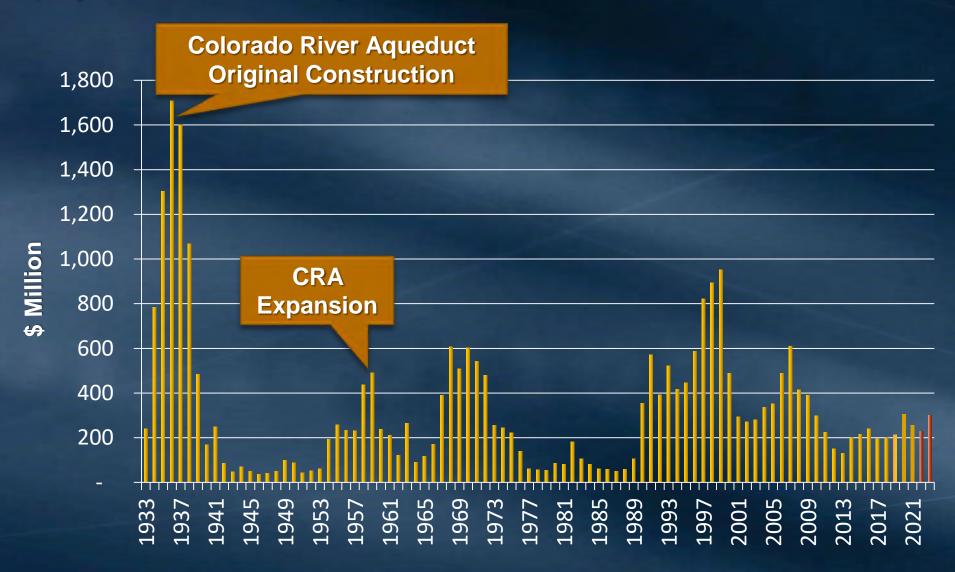


### Metropolitan Water District



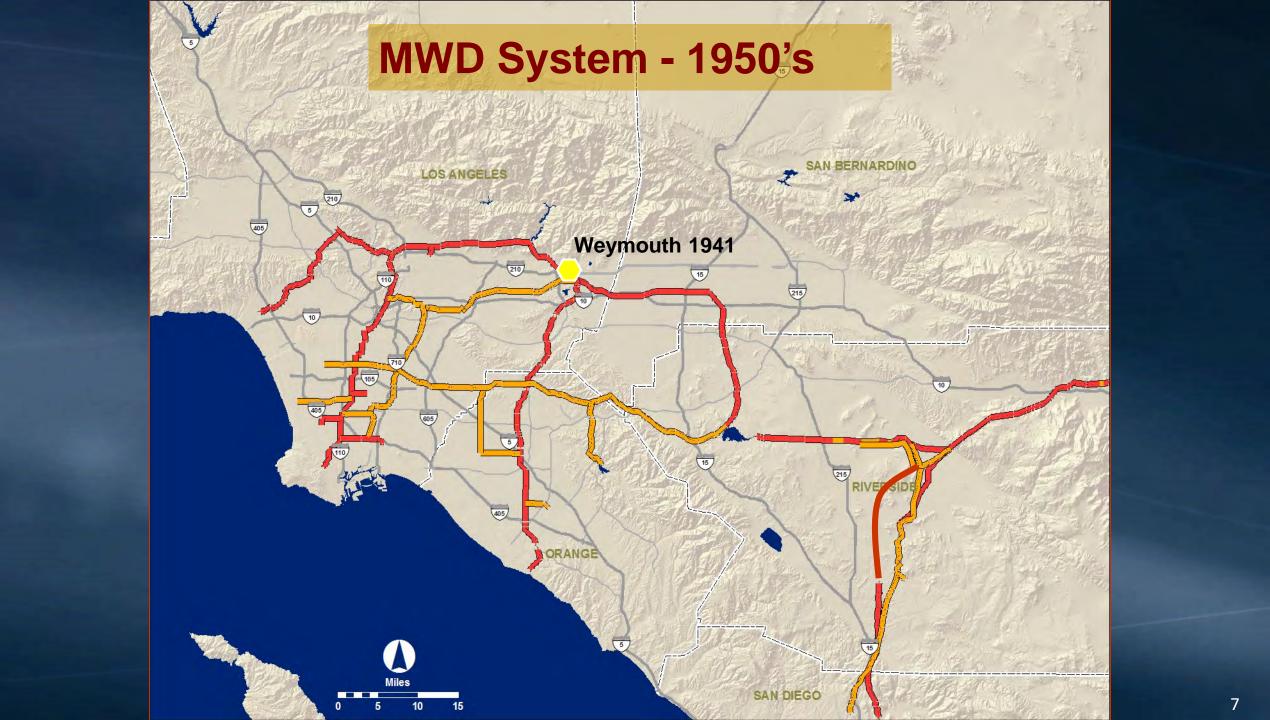


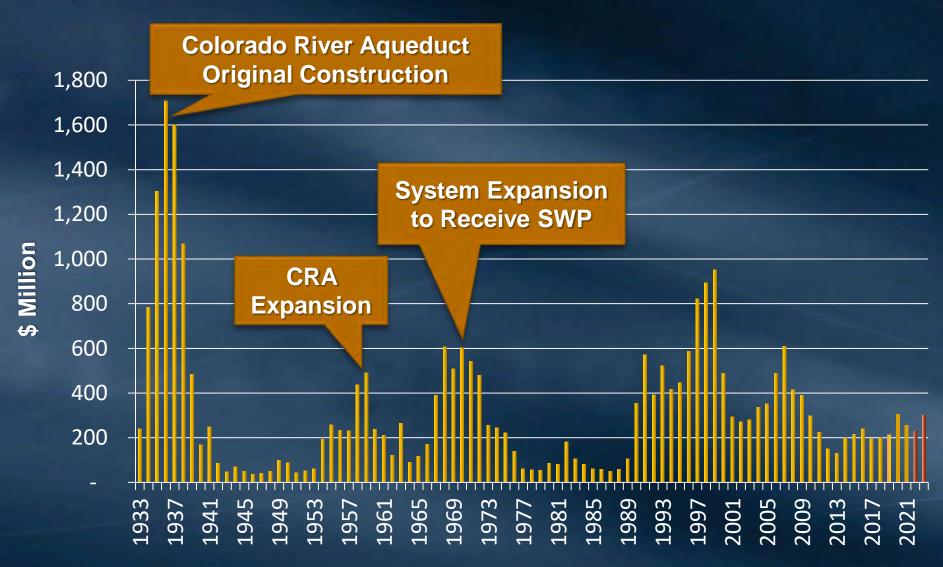




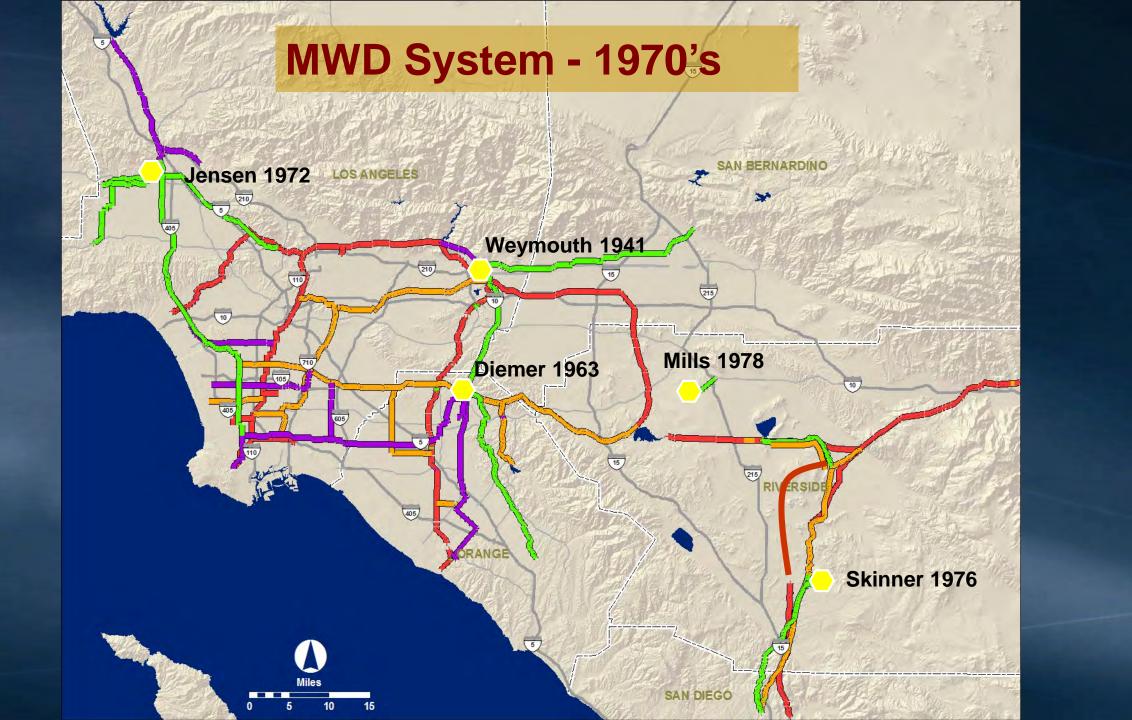


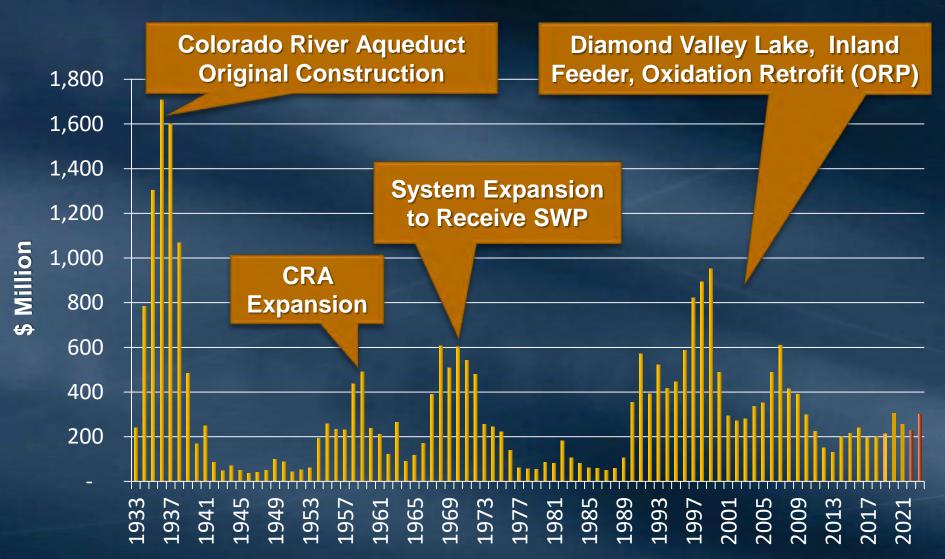
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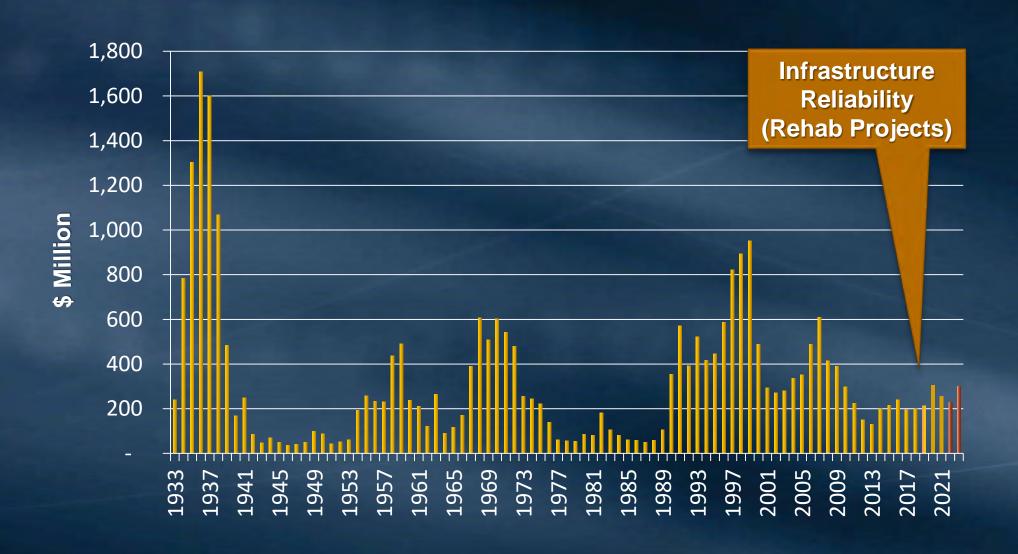












### Planned CIP for FY 2020/21 - 2021/22

- 2-Year planned spending \$500 million
- Over 80% proposed for infrastructure reliability work
  - Aging infrastructure \$250 M
  - PCCP rehabilitation \$54 M
  - Seismic upgrades \$70 M
  - Information Technology \$15 M
  - Other \$35 M
- IT improvements/upgrades \$32 M
- Other \$44 M
- Prioritized to maintain reliability & comply with regulations

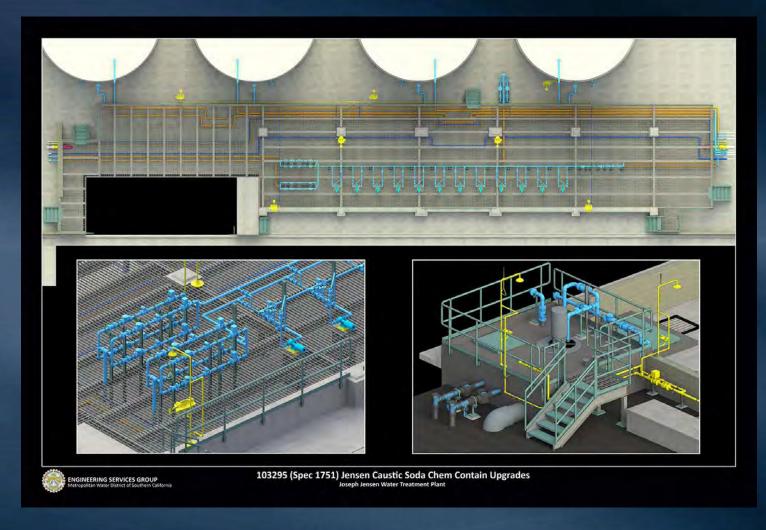
## Today's Message

- Metropolitan has a lot of upcoming work, in all types
  - Pipelines
  - Electrical
  - Mechanical
  - Civil
  - Roads/Sewers/Domestic Water/Housing
  - Sustainability
- ... and all sizes
  - Largest: 2<sup>nd</sup> Lower Feeder PCCP (~\$70M): Perris Valley Pipe Tunnel (~\$60M)
  - Smallest: Lower Feeder Drain Line Replacement (~\$90k); Live Oak Reservoir Cathodic Protection (~\$100k)
- We partner with consultants to make this happen!

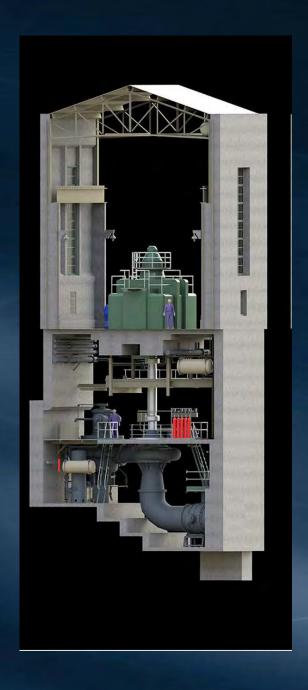
### Metropolitan's Use of Engineering Consultants

- Metropolitan Staff
  - Full-service design capabilities
  - Focused on core work of water conveyance, treatment & delivery
- Engineering Consultants
  - Support project schedules
  - Specialized expertise
  - ~ \$23 M/ year

### Design Practices – 3D today







### **Consultant Acquisition**

- Respond to Master RFQs
  - Get on pre-qualified list (refreshed every three years)
    - Conveyance
    - Treatment
    - Rotating Equipment
- Respond to project-specific RFPs
- Types of agreements
  - On-call
  - Project specific

## Upcoming RFQs & RFPs

- Now
  - CRA Erosion Repair RFP
- This Year
  - Construction Management Tunneling Support
  - Structural Engineering Services for Seismic & Pipeline Rehabilitation
  - Facility Electrical Coordination Studies
- Next Year
  - Conveyance, Treatment, Rotating & Electrical Equipment
    Design

### Major Program – CRA Rehabilitation

- Colorado River Aqueduct (CRA) Main Pump Rehabilitation
  - Rehab 45 pumps, motors, support systems at five pump plants
  - Future contract amount: ~\$160M
  - Many contracts over 2025-2031
- CRA Electrical Upgrades
  - Main Transformers
  - Auxiliary Power Systems
  - Emergency Generators



# Major Program – CRA Living Facilities

- District Housing, Support Facilities (Homes, Dormitories, Kitchens, Streets, Sewers, Roads)
  - \$100M+ in future contracts
  - Planned construction from 2023 through 2027
  - From Indio to Havasu



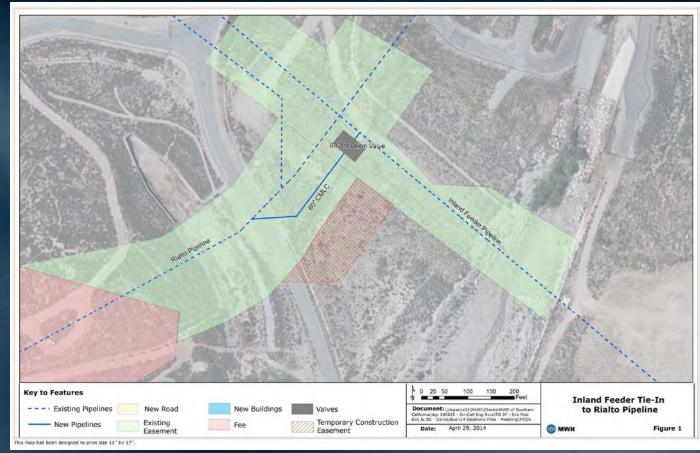
# Major Program – PCCP Relining Program

- Total Program Includes Relining 100 miles of Prestressed Concrete Cylinder Pipe (PCCP)
  - ~\$2B over next 20 years
  - Expected 25-30 contracts
  - Currently using prequalified contractors



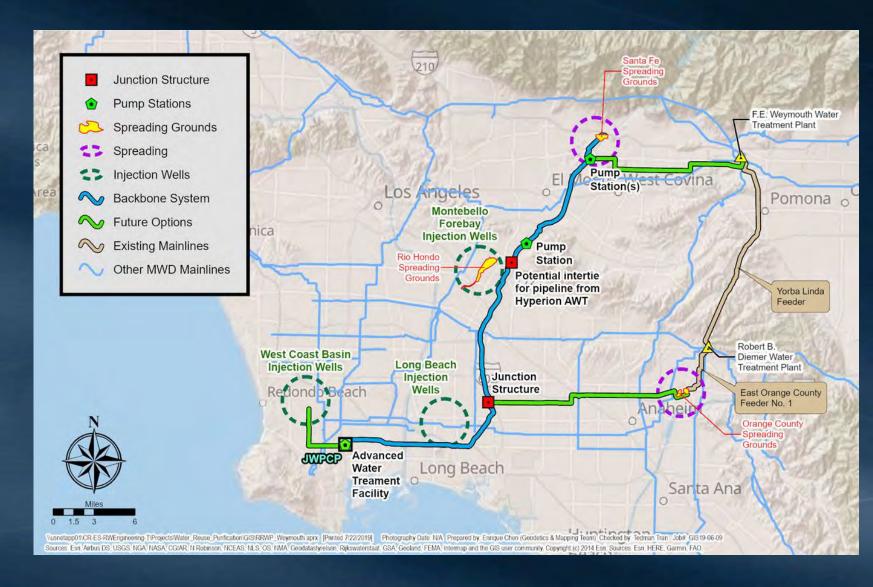
Major Program – System Resiliency, Drought Projects

- Interconnections to allow delivery from DVL to Rialto Feeder
- New pump stations on west side of Metropolitan's service areas



## Major Program – Regional Recycled Water

- Constructing a
   100 MGD
   recycled water
   plant at LACSD's
   Carson Plant, with
   distribution as far
   as Irwindale
  - ~\$2.6B, construction from 2026-2032, 15-20 contracts



POLITAN WATER DISTRICT OX SOUTHERN CALIFORNIA