WEST BASIN MUNICIPAL WATER DISTRICT

- Public wholesale water agency
- Member of Metropolitan Water District of Southern California
- Provides imported drinking water to nearly 1 million people in 17 cities
- Produce and wholesale recycled water to municipal, commercial and industrial customers
SERVICE AREA
WATER RECYCLING FACILITY

- Edward C. Little Water Recycling Facility, El Segundo
- Built in 1995
- Produce approx. 40 MGD
- Three satellite facilities
- Five “designer” waters
- Recycled water source – Hyperion Wastewater Treatment Plant

- Expansion Project
  - Add overall pumping capacity
  - Add power backup - generator
5 DESIGNER WATERS

1. Tertiary disinfected
2. Nitrified
3. Single Pass RO
4. Double Pass RO
5. Barrier – RO Advanced Oxidation
RECYCLED WATER DISTRIBUTION
HYPERION PUMP STATION EXPANSION

- Existing Pumping Capacity – 70 MGD
- Future Pumping Capacity – 110 MGD
- Existing Pumps
  - 2 - 800 hp pumps
  - 2 - 500 hp pumps
- Additional pumps
  - 2 - 800 hp pumps
- Backup Generator
HYPERION PUMP STATION EXPANSION

60” Wye Force Main Tie-In
HYPERION PUMP STATION EXPANSION

• 9 Day Shutdown

• Schedule February 25, 2018 – March 5, 2018
  • Day Zero (Recycled Water System Shutdown & Dewatering) – Sunday, February 25th
  • Day One (Force Main Work Begins) – Monday, February 26th
  • Day Two (Force Main Work) – Tuesday, February 27th
  • Day Three (Force Main Work) – Wednesday, February 28th
  • Day Four (Force Main Work) – Thursday, March 1st
  • Day Five (Force Main Work) – Friday, March 2nd
  • Day Six (Force Main Work) – Saturday, March 3rd
  • Day Seven (Force Main Work Ends) – Sunday, March 4th
  • Day Eight (Bring System Back Online) – Monday, March 5th

• Contractor has steep liquidated damages for going past date.
FORCE MAIN & DISTRIBUTION

- Customer communication
  - Recycled water site supervisors notified
- Potable backup supply to several customers
  - Provide design and assist w/approval process
- Install a meter on 24-inch pipeline
  - Aviation Blvd & 120th Street
- Conduct inspection of 60-inch force main
  - Condition Assessment
  - Dewatering
FORCE MAIN & DISTRIBUTION

• Valve exercising
  • Valves ranging from 16-inch to 42-inch

• Work Coordination
  • PCL Construction – contractor for Hyperion Pump Station
  • Suez – Treatment plant operator
  • California Water Service Company – Distribution system operator
UPCOMING CUSTOMERS

- **Dominguez Technology Center, Carson (2018) – 130 AFY**
  - Business Center – 300 acres
  - Dual distribution pipelines constructed almost 20 years ago
  - Working on conversion of pipelines and 35 irrigation systems

- **LA Stadium, Inglewood (2020) – 200 AFY**
  - Landscaping
  - Lake – storm water retention and irrigation