Overview

- Statewide drought, mandatory conservation measures
- Caltrain historical water usage
- Voluntary conservation efforts
- Initial results
- Next steps
Drought Regulations

- 25% statewide reduction in urban potable water use
  - Compare Jun 2015 – Feb 2016 to 2013
  - 8% - 36% targets depending on water district
  - Caltrain: 54 water meters in 16 districts
  - Regulation extended through Oct 2016

- Water districts must meet targets or face fines up to $10,000 per day
  - Mandatory measures (next slides)
  - Discretionary measures: increased pricing for water use over “drought budget”

Mandatory Measures

- Prohibitions
  Except for immediate health or safety need, or to comply with permit condition:
  - No irrigating within 48 hours of measureable rain
  - No irrigating that causes runoff onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures
  - No applying potable water to driveways and sidewalks
  - No using hoses without shut-off nozzle to wash motor vehicles
  - No using potable water in a fountain or decorative water feature, except where part of a recirculating system
Mandatory Measures

• Outdoor irrigation schedules
  - Max 2 days per week watering
  - For most cities:
    o Odd addresses Mon/Thurs
    o Even addresses Tues/Fri
    o No watering 8am – 6pm

• Enforcement
  - Customer fines up to $500 per day
  - Flow restrictor

Caltrain Historical Water Use

Note: JPB water meters only
Voluntary Efforts

• Prioritize initial efforts
  - Can be implemented immediately
  - Low cost
  - Significant savings

• Initial efforts in 3 categories
  - Outdoor landscape irrigation
  - Indoor plumbing fixtures
  - Employee and public outreach

Voluntary Efforts: Landscape

• Use “smart” irrigation controllers that adjust based on local rainfall and temperature
• Cover plant beds with mulch to reduce evaporation
• Choose drought-tolerant species for new plantings
• Reduce irrigation to 1 day per week
Voluntary Efforts: Plumbing

- Install high efficiency plumbing fixtures
  - Faucet aerators (0.5 gpm, 75% reduction)
  - Showerheads (2.0 gpm, 10% – 60% reduction)
  - Obtained fixtures at no cost, in partnership with water districts

- Locations
  - Station restrooms, CEMOF, Caltrain offices (completed)
  - SF crew facility upgrade (as designed; also includes high-efficiency toilets)

Voluntary Efforts: Outreach

- Save Our Water signage
  - Employee restrooms, kitchens, showers
  - Station restrooms

- Other communications
  - Employee newsletter, emails
  - Peninsula Moves! blog
  - Caltrain Sustainability website
  - Social media
Initial Results

- 35% reduction Jun-Dec 2015 vs. Jun-Dec 2013

Next Steps

- Monitor water usage
- Evaluate success
  - Calculate savings
  - Modify strategies as needed
- Consider additional strategies in operations, maintenance, and construction