



Regional Recycled Water Program Update

Engineering and Operations Committee

Item 6a

March 9, 2020

Presentation Outline

- Demo Plant Testing
- Independent Scientific Advisory Panel
- On-going Planning Activities
- Agency Coordination
- Public Outreach
- Grant Funding
- Next Steps

Demonstration Plant Testing

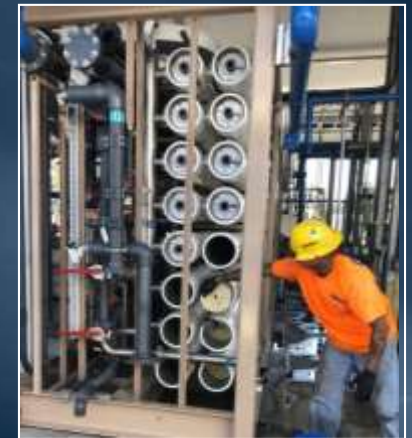
- Demonstration Plant construction completed (2019)
- Secondary Effluent Testing (2020-2021)
- Primary Effluent Testing (2021-2022)
- Proposed DPR Testing (2023-2024)
- ISAP Oversight (ongoing)



Demonstration Plant

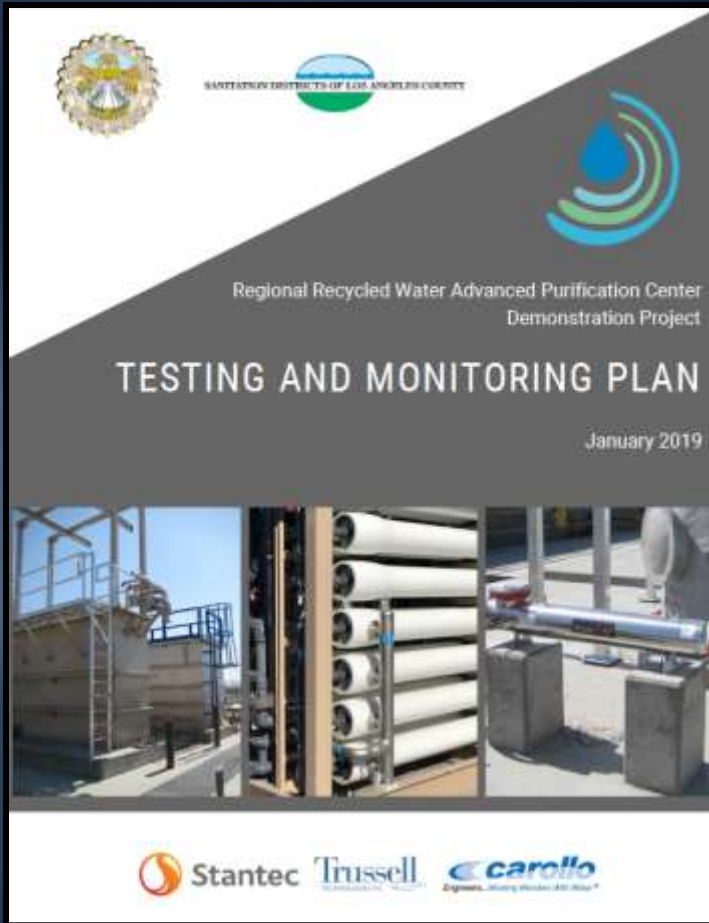


MBR



Reverse Osmosis

Demonstration Plant Testing



Pre-testing

Process Acclimation (6 months)

Phase 1

Baseline Performance Testing
(4 months)

Phase 2

Challenge Testing & Evaluation
(8 months)

Demonstration Plant Testing

Pre-Testing Activities

- Continuing operation, monitoring & maintenance
- Biological process acclimation
 - Nitrogen removal from MBR
 - Demo and Bench-scale testing



Bioreactor Monitoring



New Conduit Routing



Bench-Scale Testing

Independent Scientific Advisory Panel

- Final report posted
- Nitrogen control reviewed
- Workshop #3 – Spring 2020



On-going Planning Activities

- Planning for the potential next phase
 - Programmatic Environmental Impact Report
 - Future DPR demonstration testing
- Coordinating with other MWD efforts
 - Climate Action Plan
 - 2020 Integrated Resources Plan



Agency Coordination

- Potential collaboration/partners
- Letters of Interest (LOI)
- Future Agreements

Collaboration/Partners

LACSD
LACDPW
LADWP
City of Torrance
City of Long Beach
Upper San Gabriel Valley MWD
Three Valleys MWD
West Basin MWD
MWDOC
Main San Gabriel Basin
Watermaster
Water Replenishment District
Southern Nevada Water Agency

Agency Coordination

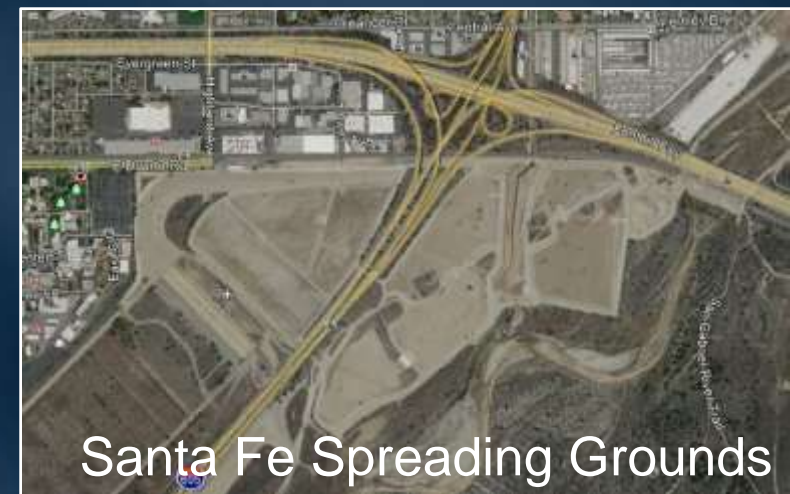
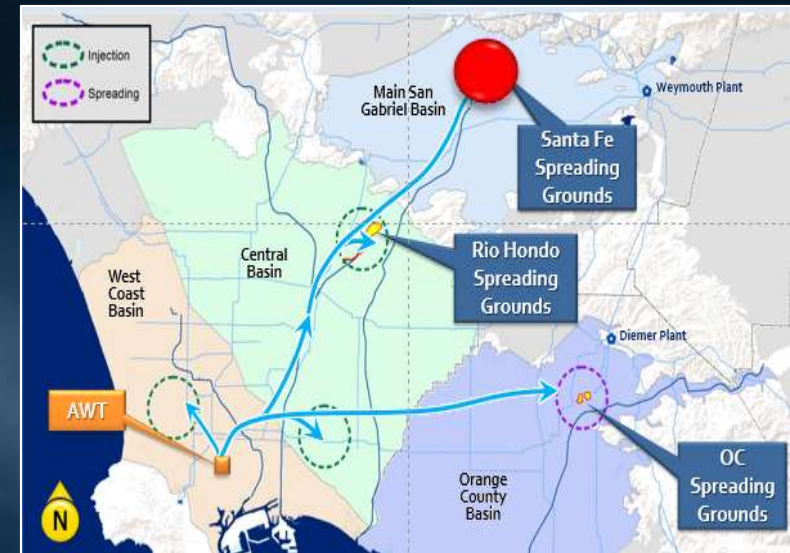
Sanitation Districts of Los Angeles County

- Agreement signed in 2015 for the demonstration & full scale projects
- Assisting on nitrification removal investigations for the demonstration plant
- Proposals for investigating incorporation of secondary MBR treatment into the JWPCP
- Future joint studies to provide information for the PEIR

Agency Coordination

San Gabriel Basin Agencies

- Executive Management committee
 - Upper San Gabriel Valley MWD
 - Three Valley MWD
 - LACSD
 - LACDPW
 - Main San Gabriel Basin Watermaster
- Purpose to coordinate the agencies needs with the Program



Grant Funding

Source	Work	Amount	Status
State Water Resources Control Board	Groundwater Basin Planning	\$300,000	Final Payment Pending
State Water Resources Control Board	MBR Evaluation	\$1,000,000	Developing Draft Agreement
Bureau of Reclamation Title XVI	Reuse Research	\$750,000	Developing Draft Agreement
Bureau of Reclamation Title XVI	Construction	Up to \$20M	Future

Public Outreach

- 85+ Demonstration Plant Tours
- Approximately 2,000 visitors
- Member agencies, elected officials, industry groups, students & general public
- Program has been well received
- 2020 Presentations
 - AWWA International Symposium on Potable Reuse
 - Singapore WaterWeek
 - WaterReuse CA



Next Steps

White Paper #1



Workshop #1:
Implementation
and DPR
Considerations

July 23, 2019

White Paper #2



Workshop #2:
Planning,
Agreements and
Financial
Considerations

Mid 2020

Board Letter



Board Action on
Next Steps
PEIR + DPR Demo
Testing

Mid - Late 2020

