



# Regional Recycled Water Program Update

Engineering and Operations Committee

Item 6a

September 14, 2020

# Outline

- Demonstration Plant Activities
- Independent Scientific Advisory Panel (ISAP)
- Public Outreach
- Program Recognition
- Agency Coordination
- Next Steps



# Demonstration Plant Activities



## Pre-testing

Equipment Testing and Process  
Acclimation (*Completed July 2020*)

## Phase 1

Baseline Performance Testing  
(*4 months – July/November 2020*)

## Phase 2

Challenge Testing and Evaluation  
(*8 months – December 2020/July 2021*)

# Demonstration Plant Activities

- Plant modifications
- Biological nitrogen removal and optimization
- Baseline testing (7/20/20)
  - tMBR in nitrification-only mode with double pass RO
  - Sampling events
  - Initial results/data
- Testing focus
  - Pathogen testing



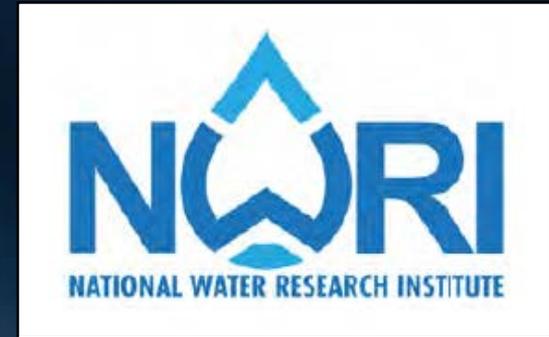
Instrument Installation



Bench-Scale Testing

# Independent Scientific Advisory Panel (ISAP)

- Workshop No. 4 (December 2020)
- Virtual workshop with panel and regulators
- New toxicity expert
- Topics of discussion
  - Review of baseline demonstration testing
  - tMBR pathogen removal
  - sMBR Test Plan



# Public Outreach Tour Program

- Four virtual tours conducted to date
- Over 200 participants ranging from students to water industry experts
- Additional tours scheduled for September and October



# Program Recognition

- Awards

- American Society of Civil Engineers (ASCE)

- Los Angeles Branch Outstanding Water/ Wastewater Treatment Project (2020)

- Articles

- WE&T (November 2020)

- AWWA Journal (Dec 2020)

- Presentations

- WateReuse Symposium



# Agency Coordination

- Recently completed:  
Letters of Intent

- **West Coast/Central Basin Agencies**

- City of Torrance
- City of Long Beach
- Water Replenishment District

- **LA County Flood Control District**

- **Central Arizona Project/  
Arizona Department of  
Water Resources**

- In-Progress:  
Letter of Intent

- **West Basin MWD**

- Previously completed:  
Letters of Intent

- **Los Angeles Department of  
Water & Power**

- **San Gabriel Basin Agencies**

- Three Valleys MWD
- Upper San Gabriel Valley MWD
- Main San Gabriel Basin Watermaster

- **Southern Nevada Water  
Authority**

- Previously completed:  
Agreement

- **Los Angeles County Sanitation  
Districts**

# Agency Coordination

## LACSD/MWD On-going Work

- Executive Management meetings
  - Held bimonthly since 2015
  - RRWP guidance and agency coordination
- Ongoing LACSD coordination efforts
  - Continuing demonstration plant operation and denitrification pilot testing
  - Water quality sampling (influent/effluent)
  - Pipeline construction for upcoming sMBR testing of primary effluent
  - FORCO site Remedial Action Plan (RAP)

# Agency Coordination

## LACSD/MWD Agreement

- Begin to discuss environmental phase activities
- Agreement in place since 2015
  - Demonstration plant implementation
  - Potential full-scale facility
- Amendment in Development
  - CEQA documentation (AWT on JWPCP)
  - Engineering assistance
  - Associated technical studies (sMBR, brine, boron)
  - Division of responsibilities and potential financial contributions for upcoming work

# Next Steps for Program

July 23, 2019

October 2020

November 2020

**DONE**

Workshop #1:  
Implementation and DPR  
Considerations

Workshop #2:  
Planning, Agreements and  
Financial Considerations  
RRWP Information

Board Action to start  
CEQA  
Amend LACSD Agreement



White Paper #1



Letters of Intent  
White Paper #2



Board Letter

# Metropolitan's Recycled Water Website



INTRODUCTION HOW IT WORKS PROCESS BENEFITS STRATEGY MILESTONES RESOURCES PARTNERSHIP



## Regional Recycled Water Advanced Purification Center

### A NEW SOURCE OF WATER FOR SOUTHERN CALIFORNIA

Water is too precious to use just once. So the Metropolitan Water District of Southern California is making a major investment in a potential water recycling project that will reuse water currently sent to the ocean.

[www.mwdh2o.com/RRWP](http://www.mwdh2o.com/RRWP)

