Regional Recycled Water Program Update

Engineering and Operations Committee
Item 6b
June 8, 2020
Outline

- Demonstration Plant Activities
  - Operations and Testing
- Panel and Regulatory Activities
- Agency Coordination
- Public Outreach
- Next Steps
Demonstration Plant Testing

**Pre-testing**
- Equipment Testing and Process Acclimation (*Current Phase*)

**Phase 1**
- Baseline Performance Testing
  - (4 months – Start July 2020)

**Phase 2**
- Challenge Testing and Evaluation
  - (8 months – Start Fall 2020)
Demonstration Plant Activities

Pre-Testing Focus Areas

- Equipment testing, process acclimation, and method development
- Biological nitrogen removal and optimization
Demonstration Plant Activities
Adapting to COVID-19

- Continuing scaled-down operation, monitoring and maintenance (COVID-19)
- Preparing for baseline testing with return to “normal” operations

New Conduits Installed
On-line Instruments Installed
Warranty Repairs
Demonstration Plant Activities

Facility Improvements

Safety Improvements

Pump and Piping Improvements
Virtual workshop with panel and regulators
- Some limitation lowering nitrogen levels through MBR
- Continued nitrogen management studies at bench- and pilot-scales (LACSD)
- Baseline demonstration testing to focus on MBR pathogen removal

ISAP report supports proposed testing approach

Next ISAP meeting planned for Fall 2020
Agency Coordination

- Potential collaboration/partners
- Letters of Intent (LOI)
- Joint technical studies
Public Outreach - Tour Program

- In-person tours canceled
- Video created to showcase demonstration facility
- Virtual tours available
  - First virtual tour on June 4
  - Customized tours available for groups
Public Outreach - Program Recognition

- Owner of the Year from Engineering News Record
- Environmental Communications Award Grand Prize from AAEES
Next Steps for Program

- **White Papers**
  - July 23, 2019
  - Letters of Intent

- **Workshop #1**: Implementation and DPR Considerations

- **Workshop #2**: Planning, Agreements and Financial Considerations
  - Fall 2020

- **Board Action on Next Steps**
  - Late 2020

- **Board Letter**
Metropolitan’s Recycled Water Website

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