

THANK YOU FOR JOINING US

**WaterReuse Orange County
Chapter Meeting**

WILL BEGIN SHORTLY

Agenda

- ▶ Call to order – 12:00 PM
- ▶ Welcome (Jason Dadakis, Chapter President)
- ▶ Recycled Water and COVID-19
- ▶ Presentations
 - Jeff Kightlinger, General Manager, MWD
 - Jennifer West, Managing Director, WaterReuse California
- ▶ Standing Items
 - Regulatory Updates: DDW/OCHCA
 - Potential Funding for Projects
- ▶ Roundtable (using “Raise Hand” feature to be called on)
- ▶ Adjournment

Recycled Water and COVID-19

Water Board States Recycled Water is Safe from COVID-19



The California Water Board released a **fact sheet** explaining that California's recycled water and treated wastewater are safe from the COVID-19 virus. According to the fact sheet, sanitation experts have determined that existing treatment plant disinfection processes successfully disinfect wastewater containing the COVID-19 virus. Municipal wastewater treatment plants in California go beyond minimum requirements and provide additional tertiary filtration treatment to meet stringent State Water Board public health standards for water disposal or water recycling whenever there is a risk to the public.

ESWRT Editorial: California's Robust Multi-Barrier Treatment Requirements Protect Potable Reuse Supplies from SARS CoV2

Please see the latest editorial in **Environmental Science Water Research and Technology** that examines how California's regulations, with their robust multi-barrier treatment processes, protect potable reuse supplies from emerging pathogens, including for SARS CoV2 (COVID-19). Learn what additional studies and actions are underway to assess the full impacts of COVID-19 on potable reuse supplies and future regulations for Direct Potable Reuse. **[Read More.](#)**



<https://watereuse.org/sections/watereuse-california/>

Q&A

Have a question?

Use the Q&A box **or** Raise Hand Zoom features.

We will get to your questions after each presenter.



Regional Recycled Water
Advanced Purification Center

Metropolitan Water District's Commitment to Water Reuse

Jeffrey Kightlinger, General Manager

June 18, 2020



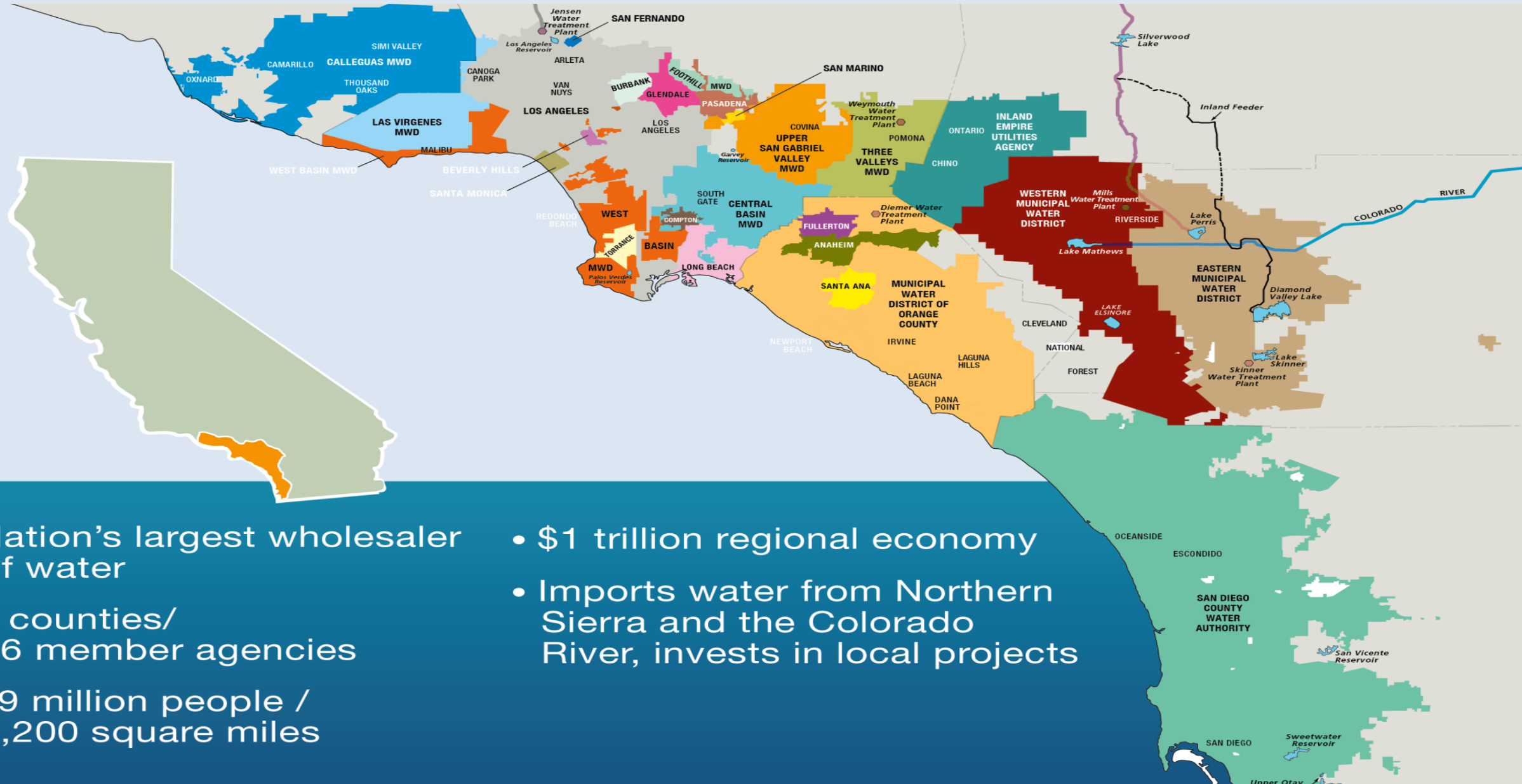
WATERREUSE
ORANGE COUNTY

Agenda

- Regional Recycled Water Program (RRWP) Background
- Raw Water Augmentation
- Cost-Effective Local Supply
- Agency Coordination
- Next Steps



RRWP Background



- Nation's largest wholesaler of water
- 6 counties/
26 member agencies
- 19 million people /
5,200 square miles
- \$1 trillion regional economy
- Imports water from Northern Sierra and the Colorado River, invests in local projects

RRWP Background

- Wastewater & Solid Waste Management
 - 24 special districts
 - 850 sq. mile service area
 - Serves 5.6 million people
 - Encompasses 78 cities and unincorporated territory within the county

Sanitation Districts of Los Angeles County

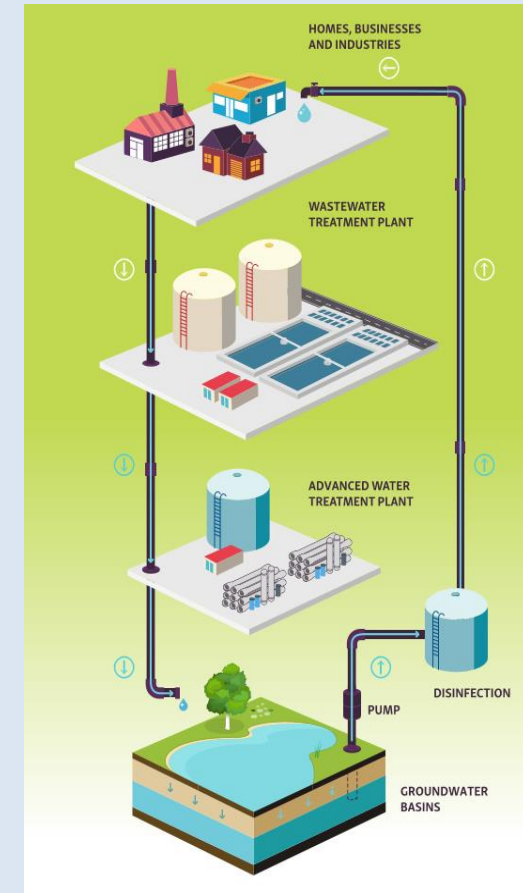
Trunk Sewers



RRWP Background

Purpose: Development of a new regional water source

- Up to 150 mgd (168,000 AFY) of purified recycled water
- Replenish groundwater basins
- Provide water to industries/refineries
- Connect to Metropolitan's water treatment plants for Raw Water Augmentation
- Would function as a 3rd MWD aqueduct



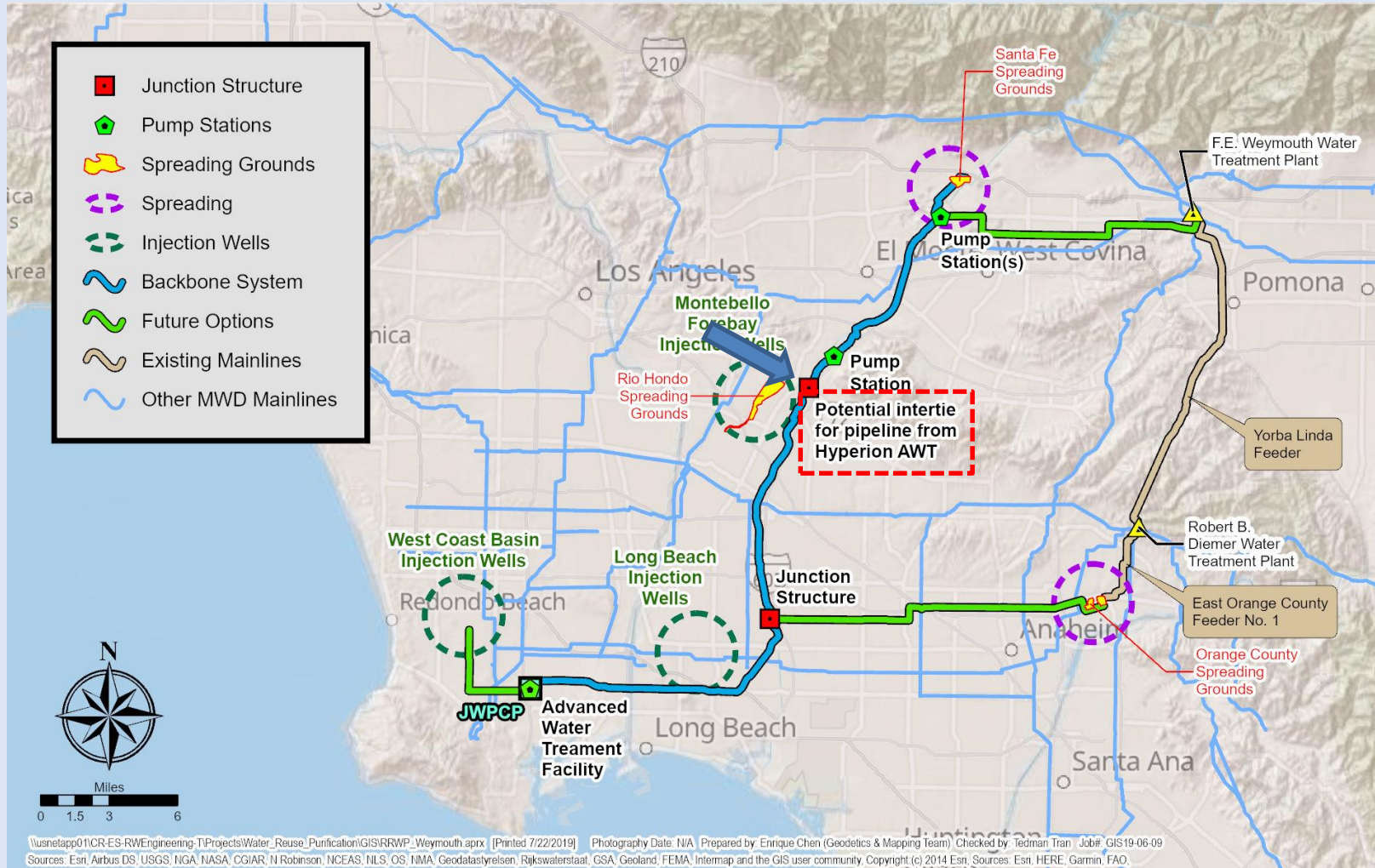
RRWP Background

Program Objectives

- Program should achieve the following objectives:
 - Provide a new local source of reliable, high quality, and climate-change resilient water to meet expected future demands
 - Diversify the region's water supply sources
 - Significant addition to regional recycled water supply
 - Increase regional water reserves
 - Maintain operational reliability and flexibility
 - Contribute to groundwater basin water quality benefits
 - Fully functional and cost-effective, stand-alone project
 - Achieve regulatory approvals and protect public health
 - Offer flexibility to accommodate future DPR



RRWP Background

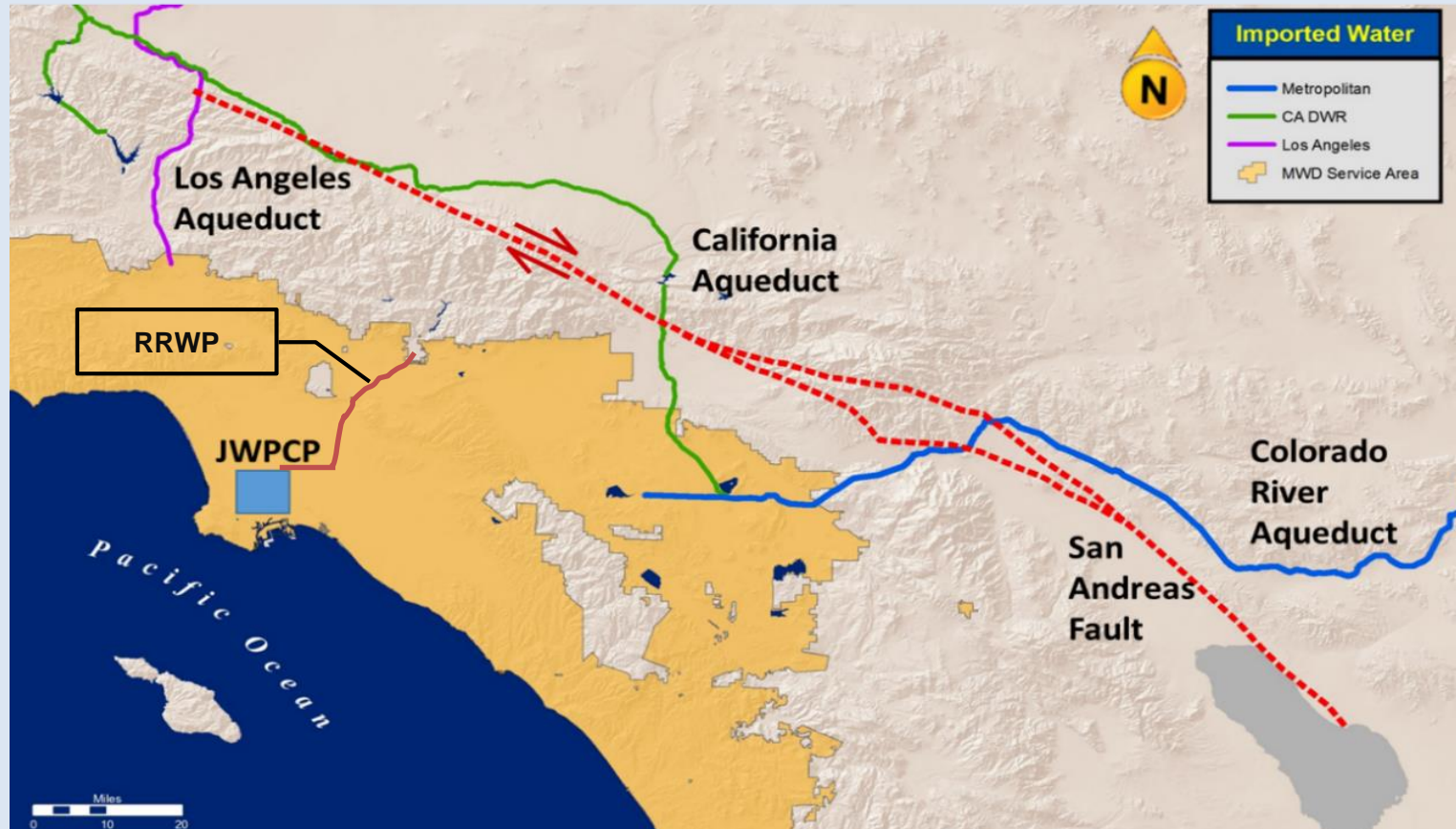


RRWP Background



RRWP Background

- Local and regional benefits
- All facilities located on coastal side of SA fault



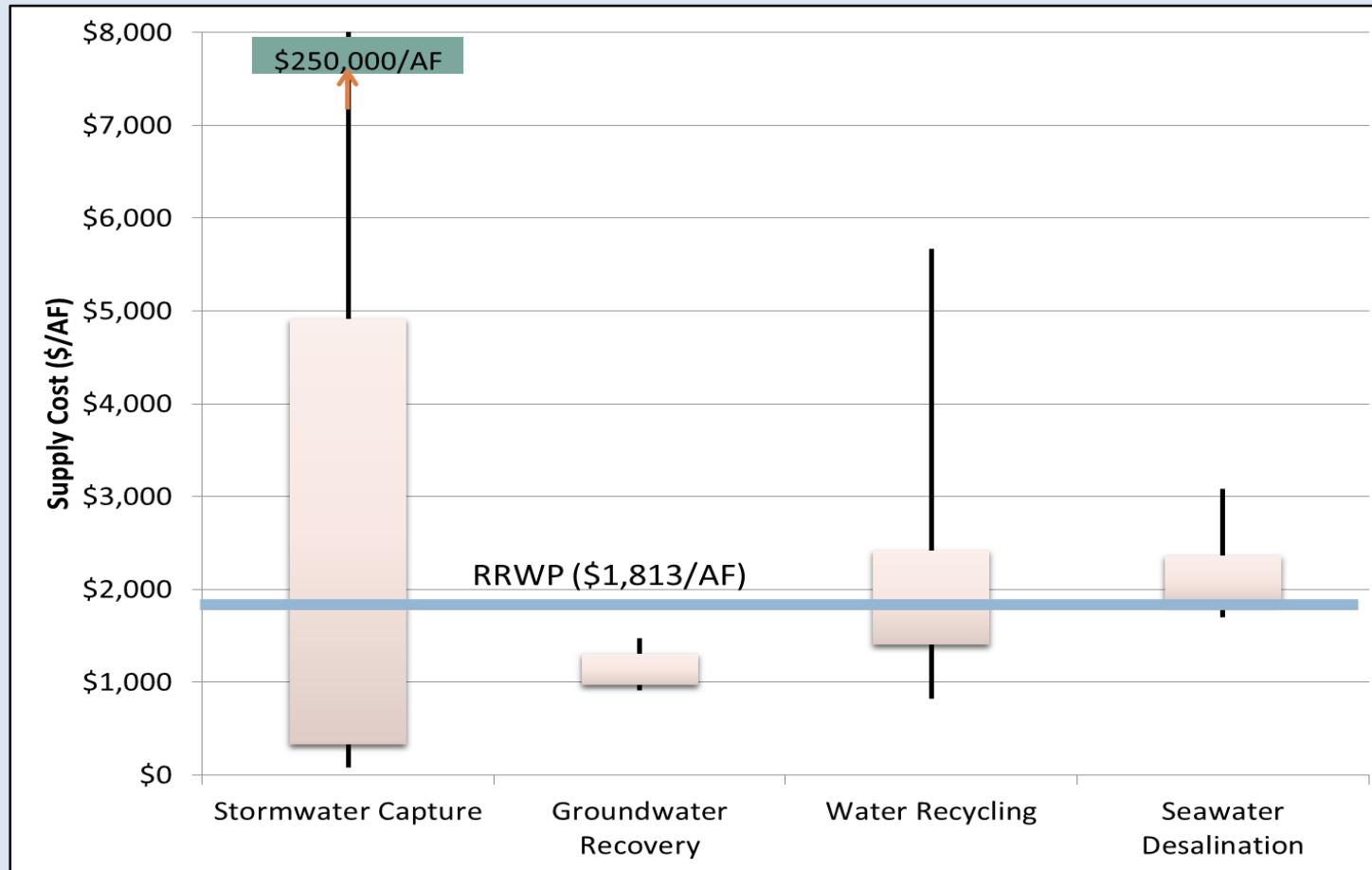
Cost Effective Local Supply

- Backbone/ Full Program Costs
- Costs don't include DPR

Item	Phase 1 Backbone (2018 Dollars)	Full Program (2018 Dollars)
Production Capacity (mgd)	100	150
Capital Program Cost	\$2.6 billion	\$3.4 billion
Annual O&M Cost (\$/year)	\$69 million	129 million
Program Unit Cost of Yield (\$/AF)	\$1,813	\$1,826
Capital Unit Cost (\$/AF)	\$1,181	\$1,054
O&M Unit Cost (\$/AF)	\$631	\$772



Cost Effective Local Supply



Agency Coordination

- Potential collaboration/partners
- Letters of Intent (LOI)
- Joint technical studies

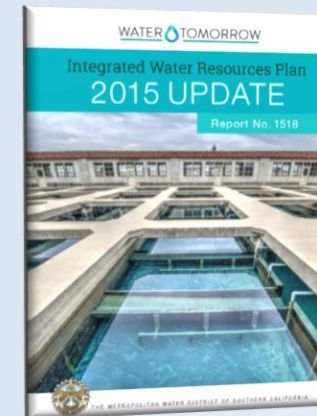
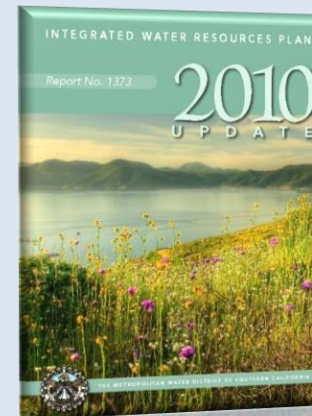
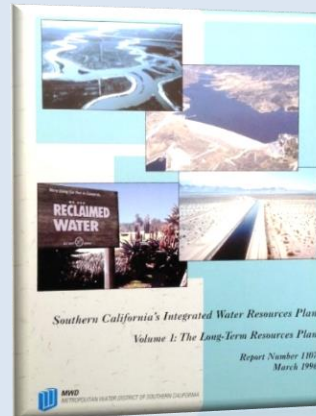


Next Steps for Program



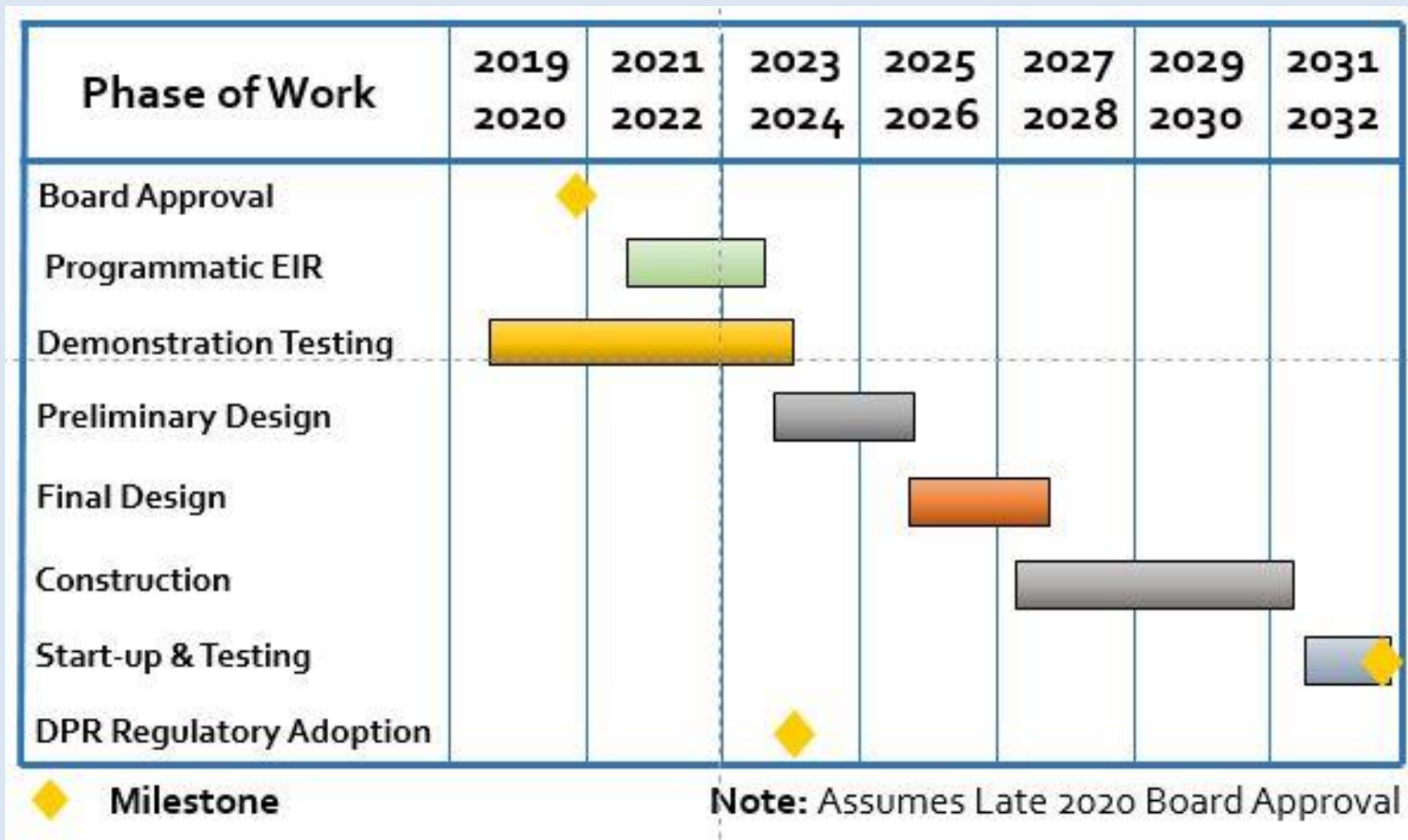
Next Steps

- Complete Demo Plant Phase 1 & Phase 2 testing
- Refine implementation approaches
- Finalize “Letters of Interest”
- Prepare for Board authorization
- Implement PEIR
- Pursue support for the DPR regulations



Next Steps

Proposed Schedule



For More Information



Regional Recycled Water
Advanced Purification Center

INTRODUCTION HOW IT WORKS PROCESS BENEFITS STRATEGY MILESTONES RESOURCES PARTNERSHIP



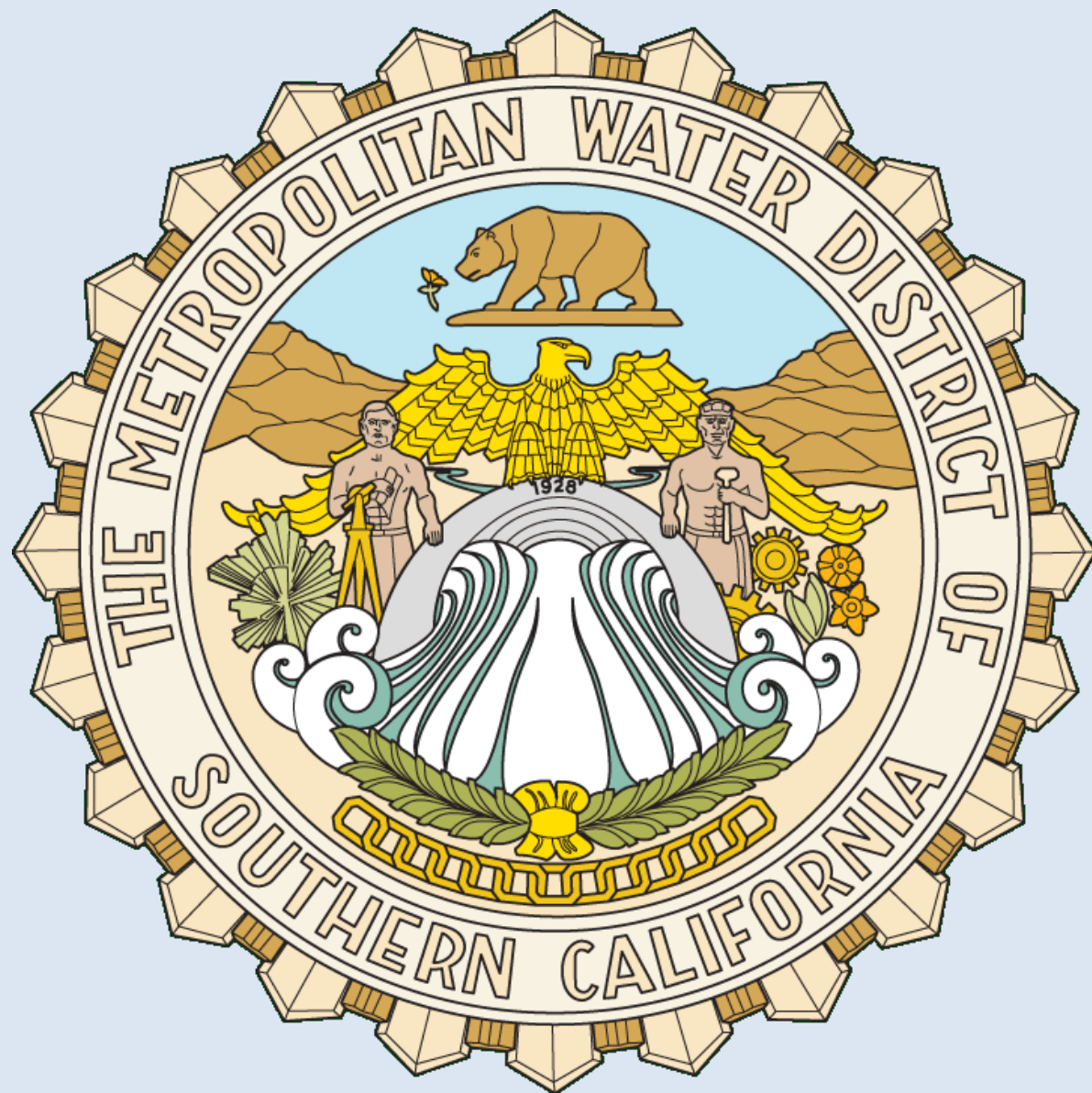
Regional Recycled Water Advanced Purification Center

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





Q&A

Use the Q&A box **or** Raise Hand Zoom features.



WATERREUSE
ORANGE COUNTY

Recycled Water Legislative and Regulatory Update

Jennifer West
Managing Director
WaterReuse California
June 18, 2020

Good, Bad and the Ugly

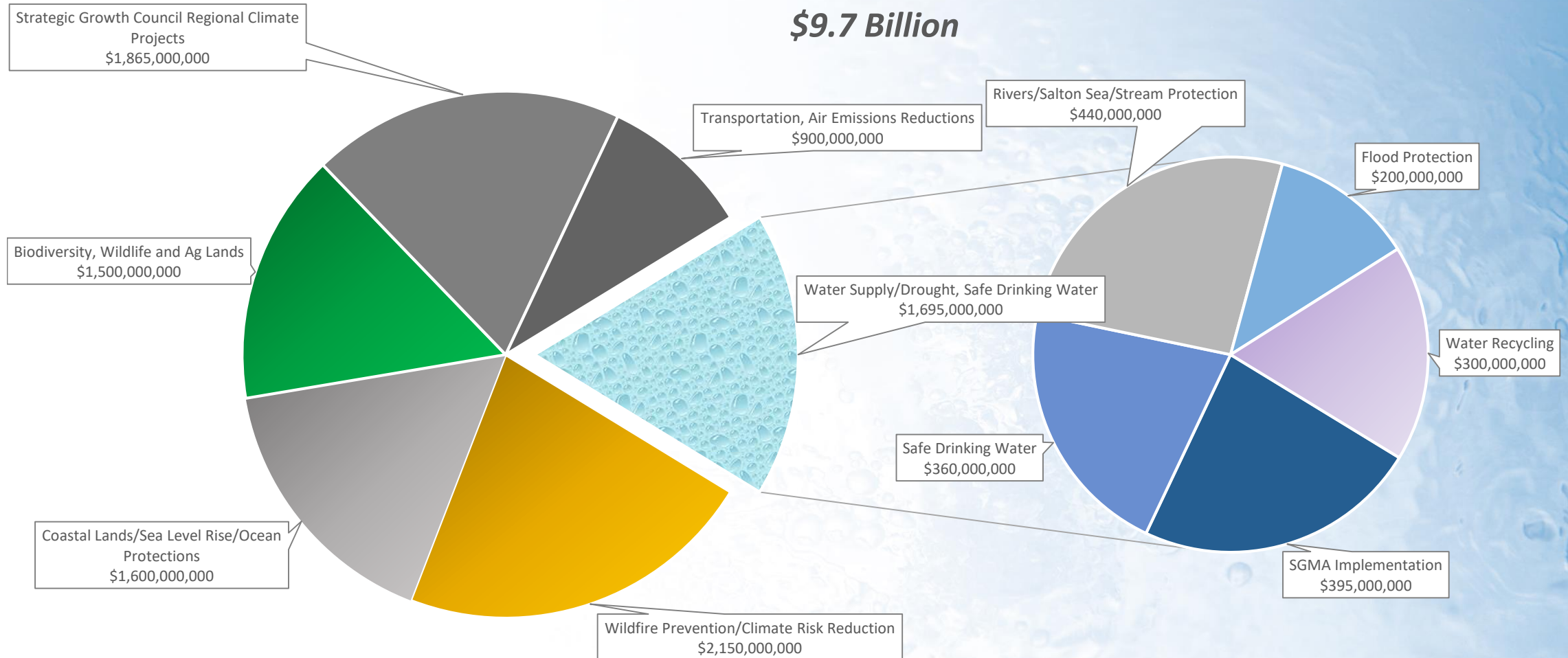
- ▶ Easier access to key decision makers (Water Board meetings will never be the same)
- ▶ Capitol closed -- struggling with virtual hearings
- ▶ But face to face carries way more impact



RW Funding: AB 3256 (Garcia) Climate/Stimulus Bond

- ▶ \$300 million for Recycle Water
 - Water Board Grants and Loans
 - 50% local cost share
 - Prioritize:
 - Reduce discharges to oceans and bays
 - Regional projects
 - Reduce imports SWP and Colorado River
- ▶ Placeholder for 2021 year bond discussions or other stimulus activities?
- ▶ Governor's Task Force on Business and Jobs Recovery

AB 3256 (Garcia) As Proposed to be Amended *\$9.7 Billion*



Regulatory Priorities 2020-21

- ▶ Fund AB 574 DPR Expert Panel for Regulations Development
(state budget or agency contributions)
- ▶ Protect the Use of Recycled Water in Water Use Efficiency
Implementation
- ▶ Align and Update Non-Potable RW Regs (Title 17, 24 and 22)

AB 1180: Update Title 22 Non-Potable



- ▶ Update signage
- ▶ Update uses: pressure washing, car washing
- ▶ Allow recycled water use with outdoor eating areas (Parks/picnic tables etc)
- ▶ Allow change over device (AB 1180)
- ▶ Allow RW use where food is served in buildings (toilet flushing)
- ▶ Money in CA budget for this update! (For now)



CA CWSRF Program

- ▶ \$7.8 Billion Back Log -- \$3 billion for Reuse
- ▶ Increase Leveraging and Financial Capacity
- ▶ Explore Options to Streamline All Review
 - Using Agency Funded Consultants?
 - Legislation for 2021?

Recycled Water Policy Implementation



- ▶ RW Reporting 2020
- ▶ Ensure New Ocean Discharge Goal is Not Misinterpreted by Other Agencies
- ▶ 1211 Agency Checklist
- ▶ Salt/Nutrient Plans and SGMA
- ▶ Potable Reuse Bioassay Implementation



WATERREUSE CALIFORNIA VIRTUAL CONFERENCE



Register Today!

Q&A

Use the Q&A box **or** Raise Hand Zoom features.

Jennifer West
(916) 496-1470
Jwest@watereuse.org

Standing Items

► **Regulatory Updates**

- Oliver Pacifico (DDW)
- Lauren Robinson (OCHCA)

► **Potential Funding for Projects:**

- Tracy Abundez (MWD)
- John Robinson (John Robinson Consulting)

Conferences

<https://watereuse.org/news-events/conferences/>

2020 WaterReuse California Virtual Conference

Launch: June 24-25, 2020

35th Annual WaterReuse Symposium

Virtual Conference

September 14-16, 2020

Webcasts

<https://watereuse.org/news-events/webcasts-2/>

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JUNE – JULY 2020

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Print

Collapse All

Expand All

Agenda ▾

JUN

30

Tue

Virtual Congressional Town Hall: The Value of Federal Investment in Water Reuse
Jun 30 @ 2:00 pm – 3:30 pm

+

JUL

8

Wed

Webcast: COVID-19 Research – Preliminary Findings from Sewershed Research and Implications for Water Reuse
Jul 8 @ 2:00 pm – 3:00 pm

+

JUL

22

Wed

Webcast: Protection of Source Waters When Practicing Indirect Potable Reuse – A Collaborative Approach
Jul 22 @ 2:00 pm – 3:15 pm

+

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JUNE – JULY 2020

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Subscribe to filtered calendar ▲

For CA Virtual Conference Attendees

Invite will be distributed
via email, please RSVP

WaterReuse CA Presents...

it's **TIKI** time!



Join colleagues, friends, and clients for a

VIRTUAL
cocktail party

Wednesday, June 24 • 5:00 pm - 6:00 pm

Dress to Impress in Hawaiian Wear and
Flowered Leis

Bring your own signature cocktail or purple non-alcoholic drink and
raise a glass for a virtual toast to our first online conference event.

Roundtable: What's going on - All

Use the Raise Hand Zoom Feature

THANK YOU

Upcoming Webcasts & Conferences

- **2020 WaterReuse California Conference** June 24-25 | virtual
- **35th Annual WaterReuse Symposium** September 13-16 | virtual
- Virtual Congressional Town Hall: The Value of Federal Investment in Water Reuse: **June 30**
 - Webcast: COVID-19 Research Preliminary Findings from Sewershed Research and Implications for Water Reuse: **July 8**
 - Webcast: Protection of Source Waters When Practicing Indirect Potable Reuse – A Collaborative Approach: **July 22**

See www.watereuse.org to register and for more info.

ADJOURNMENT