



# WATER REUSE

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*CALIFORNIA*

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February 15, 2018



# AB 1668-SB 606 Conservation Leg



- Drivers: Governor and Water Board
- Policy or trailer bill?
- Amendments pending
- Recycled Water Discussion
  - WRCA proposed study language on whether to reduce below 55 GPCD
  - “Principles of MWEL0” – what does this mean?
  - Required Water Board variance for RW needs over 1.0 ETO
  - RW-Potable supplies protected in a drought
  - Exceeding Urban Water Efficiency Target via potable reuse
    - Currently up to 10% beyond urban water target based on agency’s total potable reuse

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# AB 574 Implementation



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# SB 5 Park-Water Bond 2018 (\$100 million for RW)





# California Water Bond Nov. 2018?



\$400 million for RW

# + Proposed Water Waste Regulations





# Highlights RW Policy Update



- Update RW goals
- Track RW production & uses annually – WRCA has recommendations
- A study on wastewater discharge to the ocean
- Re-evaluate PP monitoring for landscape irrigation
- Prioritize Salt Nutrient Management Plans
- Update CEC recommendations (required every 5 years)

# + Charges of 2018 CEC Expert Panel

- Identify need for CEC monitoring/potential health risks
- Update monitoring trigger levels
  - Include groundwater and reservoir augmentation
- Review all non-potable Title 22 uses (45)
- Comment on likelihood of antibiotic resistance in RW





# + Major Takeaways

- No CEC monitoring needed for all non-potable uses
- Continue Risk Based Framework with performance based indicators
- Recommend Reservoir Augmentation to have same CEC monitoring as groundwater direct injection
- Slightly revise monitoring trigger levels
- Current studies do not show antibiotic resistance transmission is a consequence of water reuse practices (more studies needed)
- Water Board take more active role in collecting and assessing CECs from projects
- Quarterly monitoring for two bioassays to assess estrogenic and dioxin-like biological activities in recycled water
  - WRCA: Make bioassays voluntary
  - Remove bioassay trigger levels as they have no basis in health





## Quote from CEC Expert Panel

*“The Panel cannot stress strongly enough that the outcome of the 2018 application of the risk-based framework clearly points to the safety of potable and non-potable reuse practices in California. It is essential that all stakeholders and the public realize that the Panels’ findings and recommendations include a very large margin of safety.”*



# + MWELO Update 2018

- Last updated in 2015 – RW is “special landscape” with 1.0 ETO as maximum allowed water application
- Draft regulations out in March-April
- California Water Commission adopts in July
- WRCA involved in update: Goal maintain 1.0 ETO, develop process for variance for when salinity requires more RW



# + WRCA Commissioned Study

- “Leaching in Application of Recycled Water for Landscape Irrigation”
- NWRI—So. Cal Salinity Coalition – UC Riverside Professors
- Science-based guidance for DWR to determine how much RW is needed to reduce negative impacts of salinity
- Outcome: in certain circumstances 1.2 ETO justified



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# Questions?



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