



CALIFORNIA ANNUAL CONFERENCE

**RECYCLED WATER...  
FROM EVOLUTION TO REVOLUTION**

**March 19 - 21, 2017**

Westin San Diego Hotel  
San Diego, CA

# Engaging in Discussions Regarding Updates to California's Recycled Water Policy

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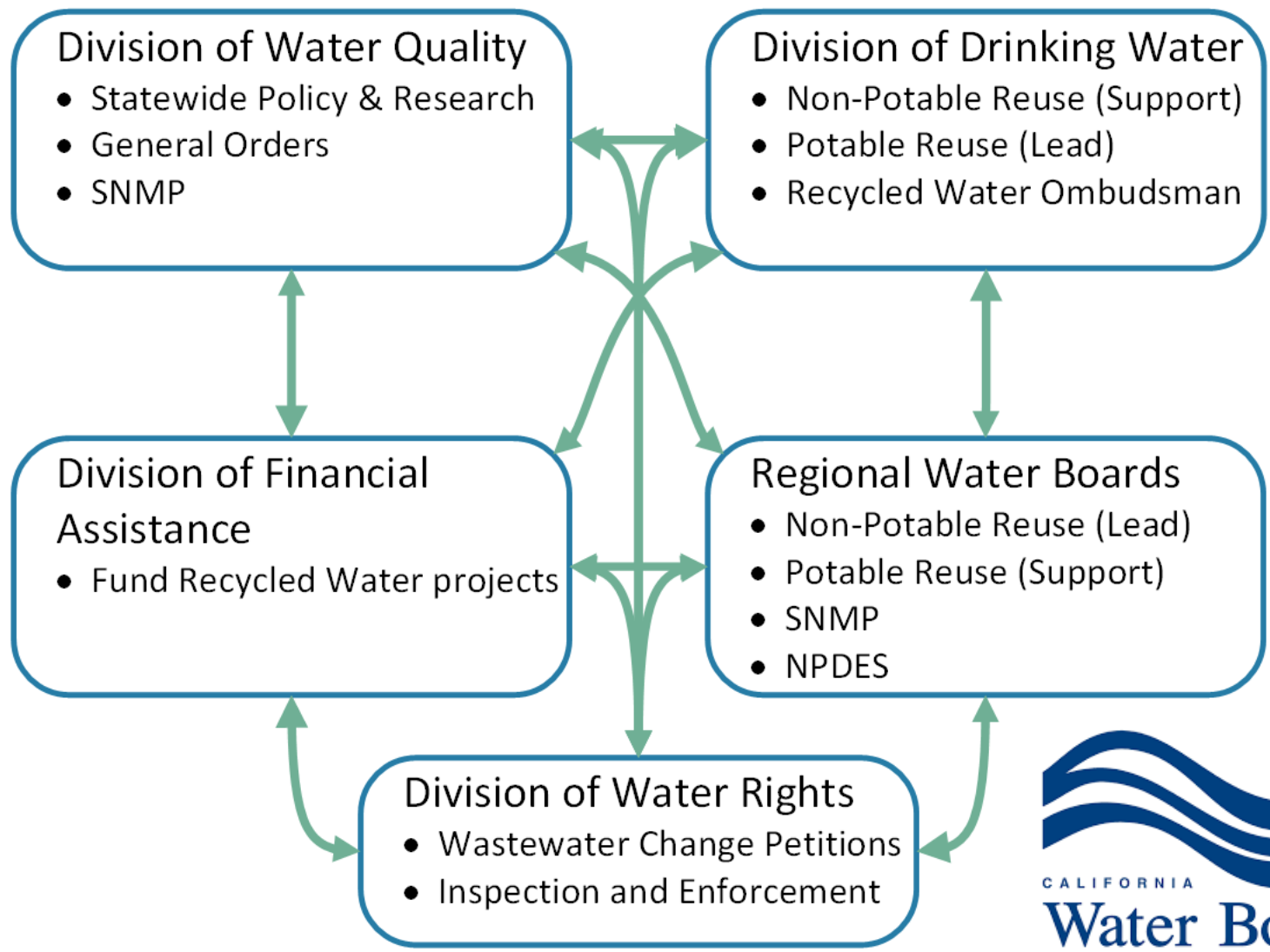
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# Outline

- Roles and Responsibilities
- Recycled Water Policy Background
- Need for Update
- Process to Update



**Division of Water Quality**

- Statewide Policy & Research
- General Orders
- SNMP

**Division of Drinking Water**

- Non-Potable Reuse (Support)
- Potable Reuse (Lead)
- Recycled Water Ombudsman

**Division of Financial Assistance**

- Fund Recycled Water projects

**Regional Water Boards**

- Non-Potable Reuse (Lead)
- Potable Reuse (Support)
- SNMP
- NPDES

**Division of Water Rights**

- Wastewater Change Petitions
- Inspection and Enforcement



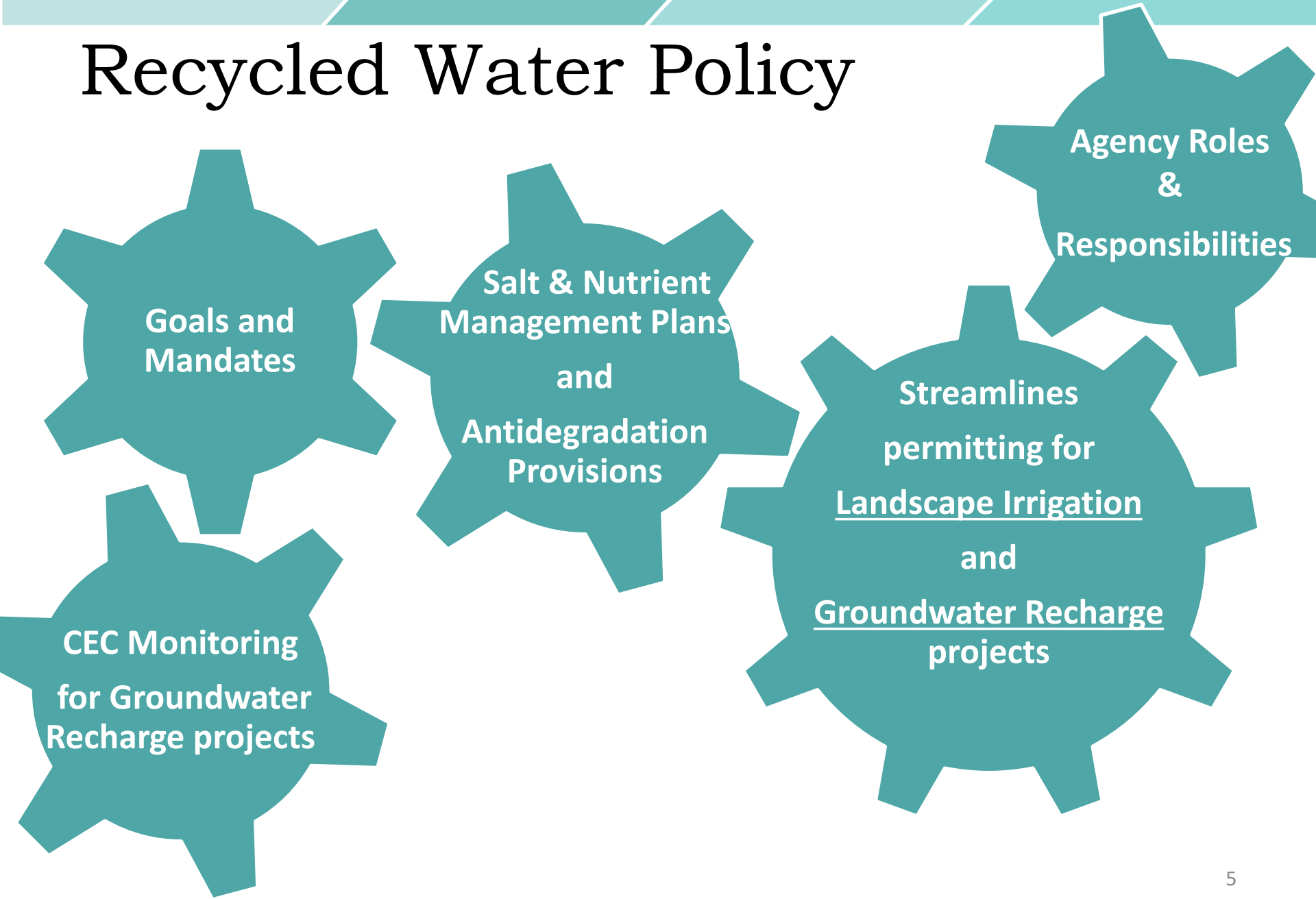
# Recycled Water Policy Goals

1. Increase the use of recycled water
2. Streamline permitting of recycled water projects
3. Maintain the quality of groundwater supplies

## Water Boards Mission Statement

*To preserve, enhance, and restore the quality of California's water resources and drinking water for the **protection of the environment, public health, and all beneficial uses**, and to ensure proper water resource allocation and efficient use, for the benefit of present and future generations.*

# Recycled Water Policy



# History of Policy

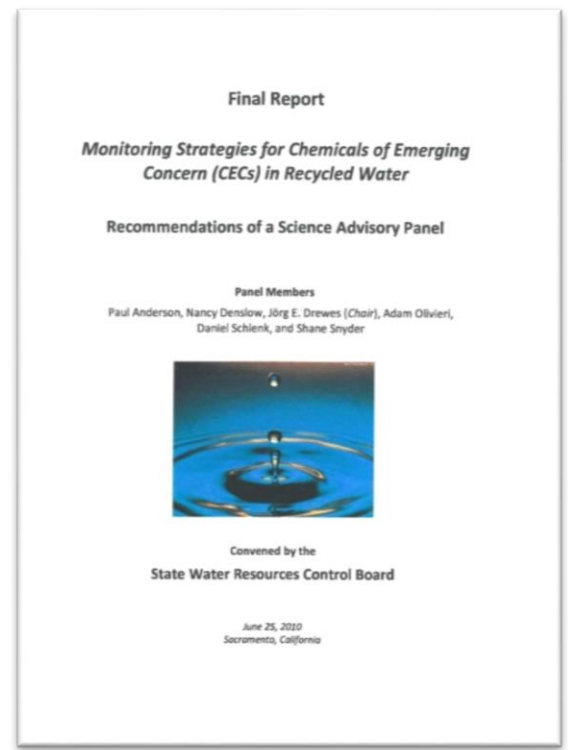
**2009** Recycled Water Policy adopted ([Resolution 2009-0011](#)) to **streamline permitting**

**2010** Science Advisory Panel report titled, "[Monitoring Strategies for Chemicals of Emerging Concern in Recycled Water](#)"

**2012** Science Advisory Panel II report titled, "[Monitoring Strategies for Chemicals of Emerging Concern in California's Aquatic Ecosystems](#)"

**2013** Recycled Water Policy Amendment ([Resolution 2013-0003](#)) to include **monitoring requirements for CECs** in recycled water used for groundwater recharge

**2016** December 6, 2016 Resolution to reaffirm support for the development of salt and nutrient management plans, reconvene the **science advisory panel for CECs**, and direct staff to initiate a **stakeholder process to update the recycled water policy**



# Advancements: Regulations

**Division of Drinking Water**

**Water Reclamation Requirements for Recycled Water**

**General Waste Discharge Requirements for Recycled Water Use (Landscape Irrigation)**

**Uniform water recycling criteria for indirect potable reuse for groundwater recharge**

**Sustainable Groundwater Management Act**

# Advancements: Expanded Uses



# Current Funded Research



**Completed & Publically Available**

Potable Reuse Research Compilation:  
Synthesis of Findings



15-01

Potable Reuse  
Compilation:  
Synthesis of  
Findings

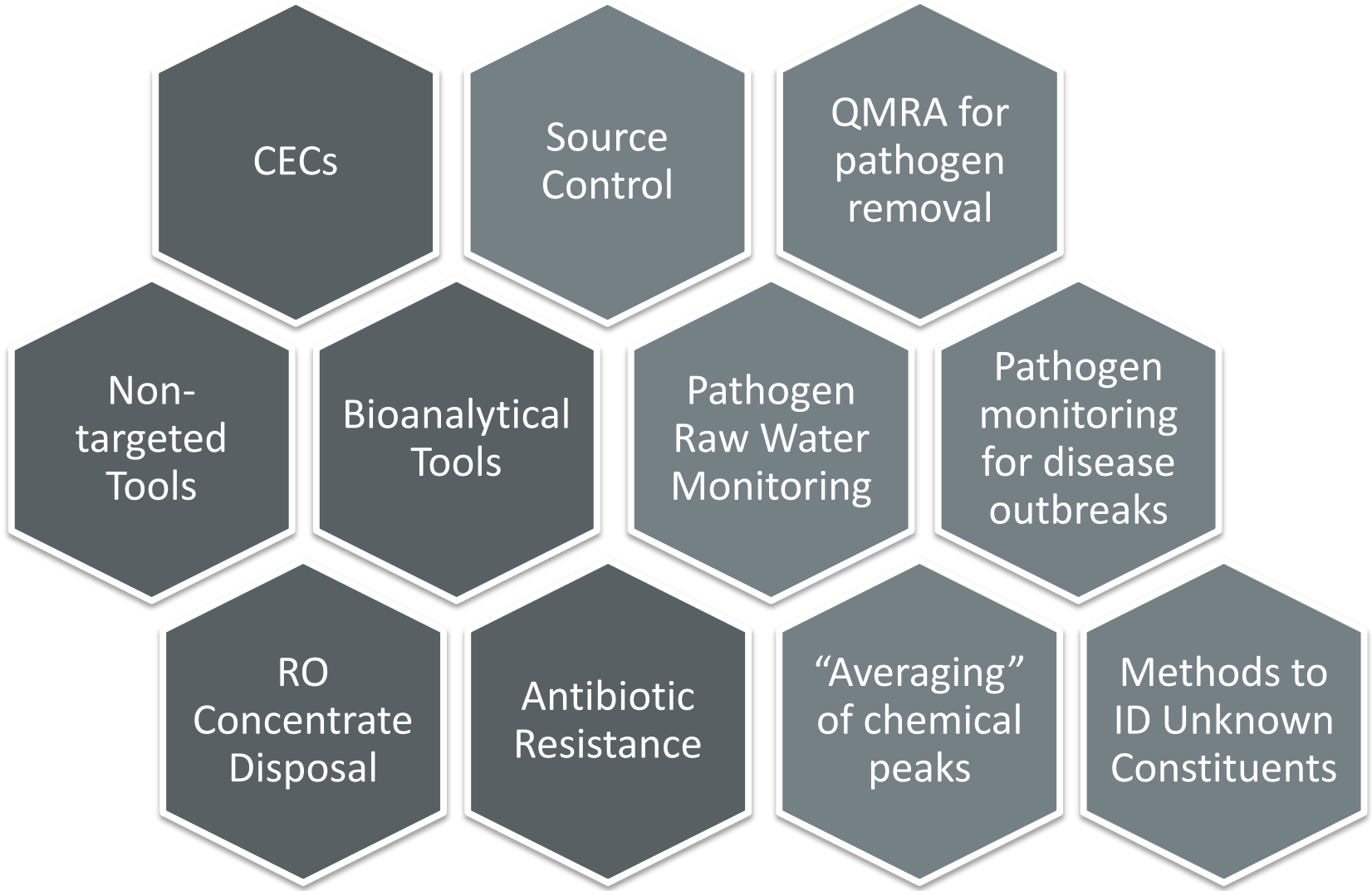
15-03

Economic  
Scorecard for  
Evaluating  
Opportunities in  
Industrial Water  
Reuse

15-08

State of Irrigated  
Agricultural  
Water Reuse:  
Impediments  
and Incentives

# Future Research Needs



# 2016 Resolution

**Reconvene Science Advisory Panel on CECs in Recycled Water**

**Revised goals and mandates**

**Monitoring and reporting production, use and potential**

**Recommendations for basin-wide monitoring for SNMPs**

**Consistency with WRRs 2016-0068**

**Monitoring frequency for priority pollutants and CECs**

**Nexus with SGMA, groundwater recharge, and surface water augmentation**



# CEC Science Advisory Panel

## Major Questions Put to the Panel

- **What CECs should be monitored?**
- What is known about **toxicology** of CECs?
- How are CECs affected by different **treatment methods**?
- What **possible indicators** might be used to represent different suites of CECs?
- What **levels of CECs** should trigger enhanced monitoring?

## Focus on these use scenarios:

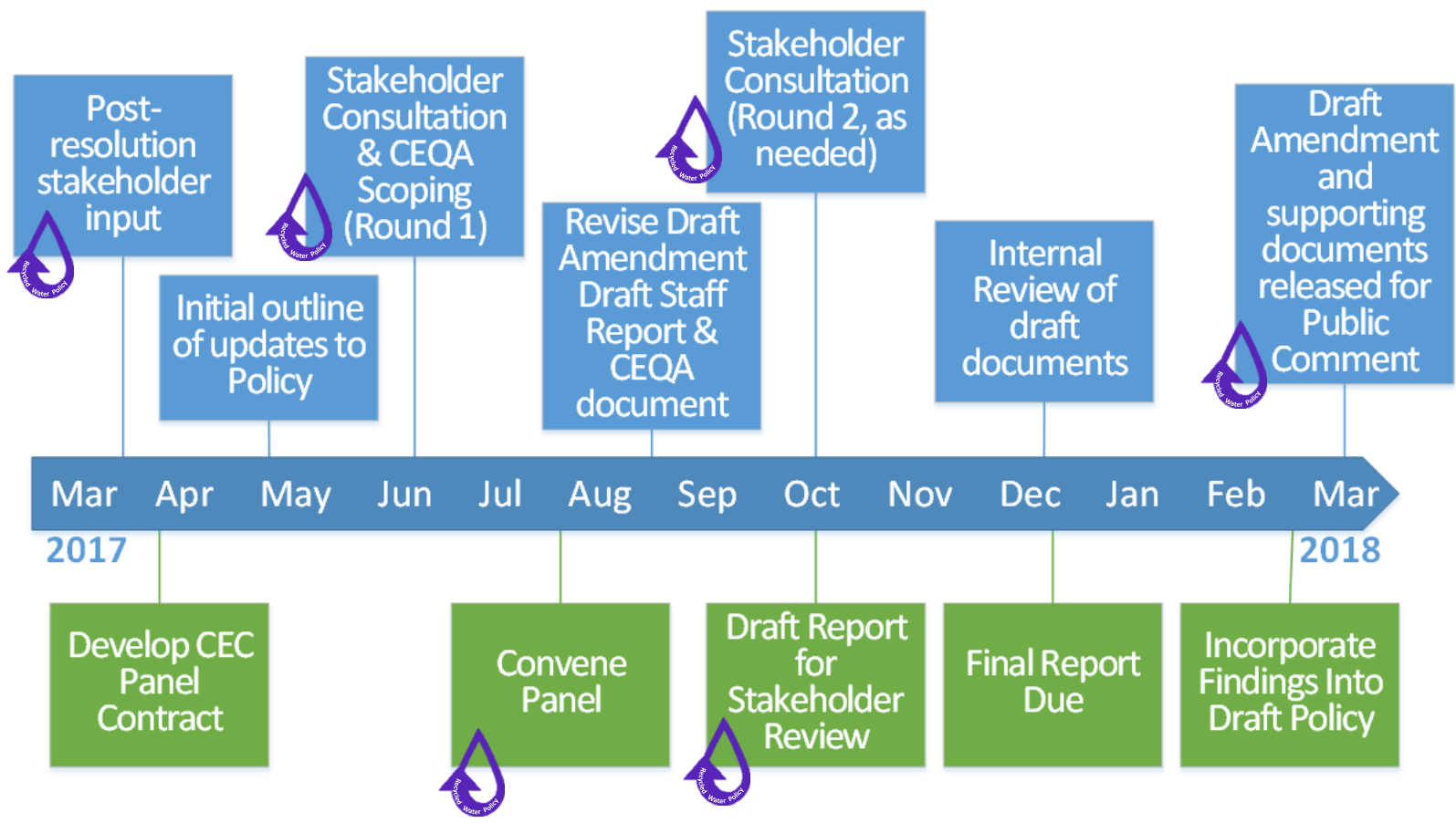
- Indirect potable reuse via **surface water spreading**
- Indirect potable reuse via **injection into the subsurface**
- Urban **landscape irrigation**

## Results

- Framework for determining which CECs to monitor
- List of CECs for monitoring identified using framework
- **Recommendation to revisit every 5 years**
- Report published in June 2010 and incorporated into the 2013 Recycled Water Policy



# Draft Timeline to Meet Board Directive



# Get Involved

- Lyris: [waterboards.ca.gov](http://waterboards.ca.gov) → Email Subscriptions → Water Quality → Recycled Water Policy/General Permit for Landscape Irrigation

**Get in touch: (916) 319-8288    [laura.mclellan@waterboards.ca.gov](mailto:laura.mclellan@waterboards.ca.gov)**

## We're seeking your input on:

- What has changed in the last 8 years that might result in an update to a specific area of the Policy?
- What aspects of the Policy are most effective as currently written?
- What are some challenges to implementation of the current Policy? What could be some potential updates to address those challenges?