



Humboldt BAYKEEPER  
Klamath RIVERKEEPER  
Yuba River WATERKEEPER  
Russian RIVERKEEPER  
Monterey COASTKEEPER  
Santa Barbara CHANNELKEEPER  
Los Angeles WATERKEEPER  
Orange County COASTKEEPER  
Inland Empire WATERKEEPER  
San Diego COASTKEEPER

# Constituents of Emerging Concern Science Panel

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# Standardized Statewide Aquatic Health Monitoring Protocols

- **Do Not Lose Sight of Aquatic Health** - Which classes of CECs, including those with data gaps, have the potential to adversely impact marine, estuarine and freshwater wildlife, ecosystems, and beneficial uses in marine, estuarine and freshwater environments? And what are the applicable monitoring methods and reporting limits for these classes of CECs?
- **Receiving Waters**
  - Fresh
  - Marine
- **End of Pipe (Pathway Sources)**
  - Direct Potable Reuse (Public Confidence)
  - Stormwater
  - Wastewater
  - Ag Tailwater

# Better On- Ramps

*2018 Expert CEC Panel “the [risk based] framework cannot capture all possible new compounds that may be entering the market, nor does it adequately address their transformation products.”*

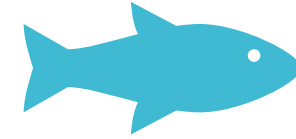
- Need robust bioanalytical tools and protocols to require statewide
- Guidance to agencies on how to manage classes of CECs
- Expand a bioscreening toolbox
- Risk-Based Framework needs to start with a large class of constituents, until they are demonstrated to not be significant and then trimmed down over time.



Identify research gaps, but best to limit to the top 2 priorities



Near term actions that the state can take to address sources and pathways



Bioaccumulation in aquatic species and impacts on human health

## Beyond the Monitoring Framework

# Nimble Adjustments...for a Government Agency

- As was recommended by the 2018 Expert Panel: the State Water Board should be reconvening a Science Advisory Panel every 3 years.
- This Panel should build off the 2018 Panel recommendations for the Water Boards to:
  - Develop a data management system for CEC monitoring data;
  - Use high-frequency operational monitoring data;
  - Develop consistent permittee electronic reporting requirements;
  - Develop a protocol for providing the public with an annual report summarizing data.

Additional  
Considerations  
to Consider

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Consider no-regrets recommendations for the State Water Board to detect and control ARBs and ARGs.

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Investigate the risk and potential health exposure to cumulative CECs at low levels.

Thank You

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