

# ADVANCING WATER REUSE

## CALIFORNIA STATE WATER BOARD PARTNERSHIP

Through \$4.5M in grant funding from the California State Water Resources Control Board (SWB), WRF is working to move the science of water reuse forward. As part of WRF's reuse research program, this SWB funding has been leveraged by other key partners, including \$975,000 from the Metropolitan Water District of Southern California.

### RESEARCH TO AID IN THE DEVELOPMENT OF DPR REGULATIONS

FUNDING: \$1.4M | TIMELINE: 2018-2020

Five Research Projects Target Areas to Help California Ensure the Protection of Public Health

- ▶ Results will be instrumental in helping SWB's Division of Drinking Water develop DPR regulations in California by 2023, as required by a state mandate.

#### 1 Tools to Evaluate Quantitative Microbial Risk and Plant Performance and Reliability

**GOALS:** Develop method and tools to identify the risk associated with viruses (*Cryptosporidium* and *Giardia*) and apply method to evaluate the performance and reliability of DPR treatment trains

#### 2 Measuring Pathogens in Wastewater

**GOALS:** Develop recommendations for collection and analysis of data on pathogens in untreated wastewater and conduct monitoring of untreated wastewater to develop better data on key waterborne pathogen concentrations and variability

#### 3 Collecting Pathogens in Wastewater During Outbreaks

**GOALS:** Investigate feasibility of data collection on pathogen concentrations associated with community disease outbreaks

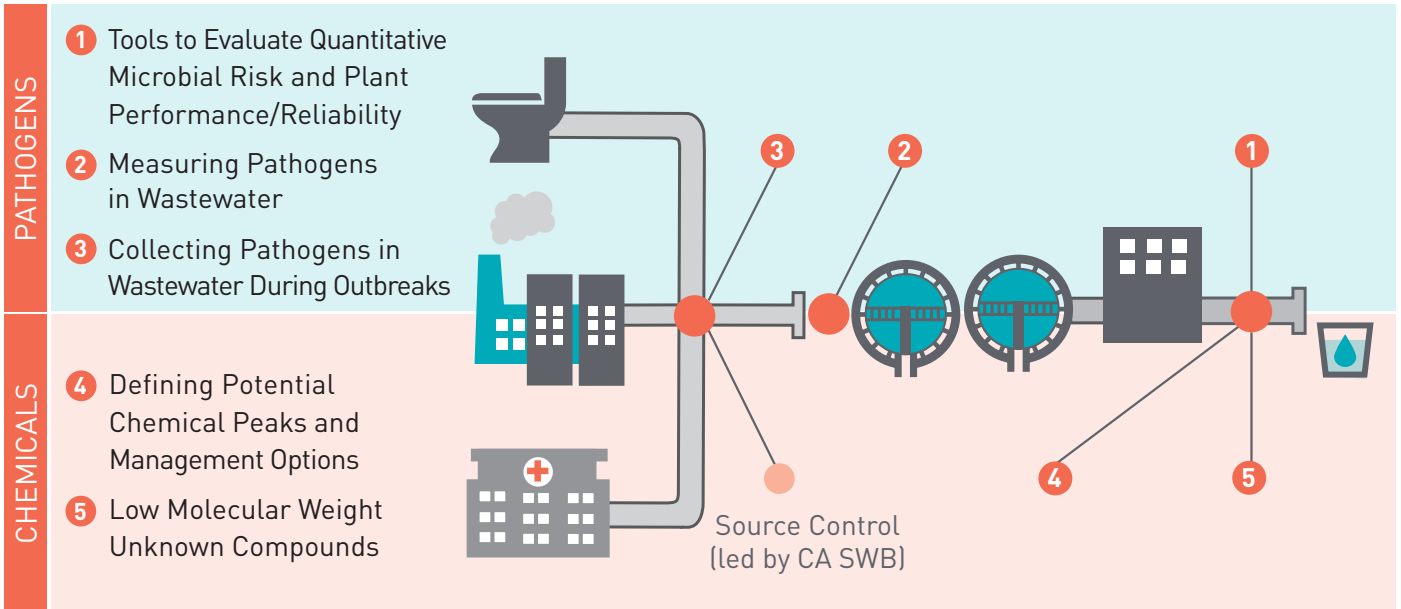
#### 4 Defining Potential Chemical Peaks and Management Options

**GOALS:** Define a chemical peak and identify and evaluate options to manage peaks, particularly for chemicals with the potential to persist through advanced water treatment. Options to be evaluated include enhanced source control, improvements to plant operations and monitoring, and additional treatment.

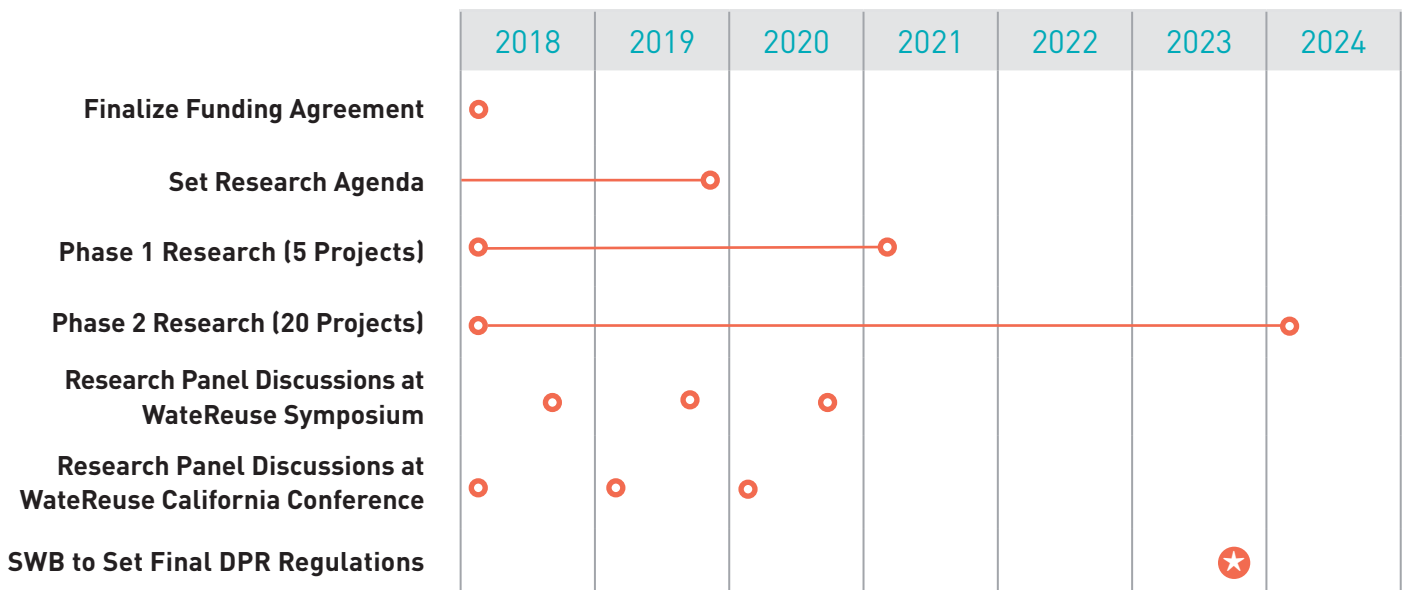
#### 5 Low Molecular Weight Unknown Compounds

**GOALS:** Evaluate potential analytical methods for assessing unknown contaminants to identify contaminants not detected by current monitoring approaches

## PROJECTS TO INFORM DEVELOPMENT OF DPR REGULATIONS



## RESEARCH TIMELINE & MILESTONES



### MORE INFORMATION

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