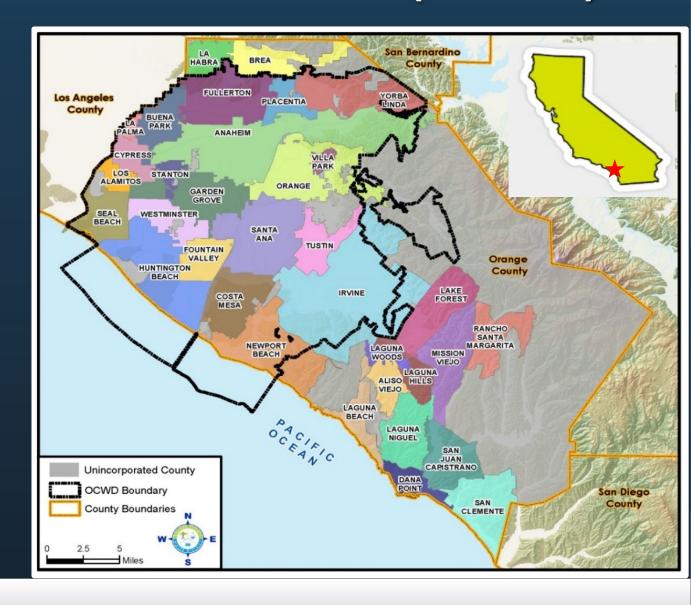


### ORANGE COUNTY WATER DISTRICT (OCWD)

- Formed in 1933
  - -Manage the OC Groundwater Basin
  - -Protect rights to Santa Ana River water
- Provide groundwater
  - -19 municipal and special water districts
  - -2.5 million residents
- Basin provides 77% of the water supply for north & central OC



### **Extent of Current PFAS Impact in OCWD Service Area**

# **Current California PFAS Drinking Water Advisories**

#### **Notification Levels**

 $PFOA = 5.1 \, ng/L$ 

PFOS = 6.5 ng/L

PFBS = 500 ng/L

#### Response Levels

PFOA = 10 ng/L

PFOS = 40 ng/L

PFBS = 5,000 ng/L

#### **Draft Public Health Goals**

PFOA = 0.007 ng/LPFOS = 1 ng/L • 11 water retailers in the OCWD service area impacted by 10 ng/L PFOA Response Level

 Wellhead treatment for 59 of ~200 large municipal wells

• Up to ~ 1/3 of groundwater basin production (100,000 acre-ft/year) unable to be served

3

• ~ >\$50 million/year additional alternative water supply cost (treated *imported* surface water)



# **OCWD Policy Response to PFAS**

- OCWD Board Policy established
  - OCWD to fund 100% of PFAS treatment system capital expense
  - Retail agency to own & operate treatment system
  - O&M costs split 50/50 between OCWD and Retailer



Supported by non-affected retail agencies





## Litigation filed in December 2020

Preliminary long-term response cost estimates > \$ 1 billion

 OCWD and 10 impacted retail water systems filed suit in Orange County Superior Court against 3M, Dupont, Chemours, and others



### **Ongoing PFAS Treatment & Piloting Study at OCWD**



Granular Activated
Carbon (GAC)

Ion Exchange (IX) Resin

**Alternative Adsorbents** 

- What adsorbent should be used in the treatment vessels to best remove PFAS, and for the best value?
- Treatment Study: Test various products at *lab* and *pilot* scale; began Dec 2019







