



PFAS Regulatory Updates

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June 23, 2025

Evolving Guidance: EPA's PFOA & PFOS Health Advisories (2009 & 2016)

- 2009 Provisional Health Advisories:
 - PFOA: 400 parts per trillion (ppt), PFOS: 200 ppt

- 2016 Lifetime Health Advisory:
 - PFOA & PFOS (combined): 70 ppt



EPA- April 2024 Ruling For PFAS in Drinking Water

PFAS		Maximum Contaminant Level
PFOA		4.0 ppt
PFOS		4.0 ppt
PFNA		10 ppt
PFHxS		10 ppt
GenX		10 ppt
Mixture of 2 or more	PFNA	1 (unitless) Hazard Index
	PFHxS	
	GenX	
	PFBS	

MCL: Maximum Contaminant Level

Hazard Index (HI): A risk-based tool to assess the combined non-carcinogenic health effects of multiple contaminants

May 2025 EPA Updates

- EPA will keep MCLs for PFOA and PFOS at 4.0 ng/L
- The other four PFAS (PFHxS, PFBS, PFNA and HFPO-DA) are being removed for further consideration
- No change to the initial monitoring program timeline for water systems to sample for PFAS—which is by 2027
- Extension of the timeline for MCL compliance by the water systems from 2029 to 2031
- EPA will defend the litigations against the original Federal Rule based on these new changes
- The current Federal MCL's for the 6 PFAS remain in effect until a successful rulemaking process enacts the proposed changes

CA- Regulatory levels for Selected PFAS in Drinking Water

PFAS IN DRINKING WATER (ppt)					
PFAS Compounds	CA State Water Board				
	Public Health Goal	Current Notification Level (NL)	Proposed Notification Level	Current Response Level (RL)	Proposed Response Level
PFOA	0.007	5.1	4.0	10.0	No change
PFOS	1.0	6.5	4.0	40.0	No change
PFHxS	OEHHA developing	3	No change	20.0	10.0
PFBS	-	500	No change	5,000	No change
GEN-X	-	-	-	-	-
PFNA	-	-	-	-	-
PFHxA	-	-	1,000.0	-	10,000.0

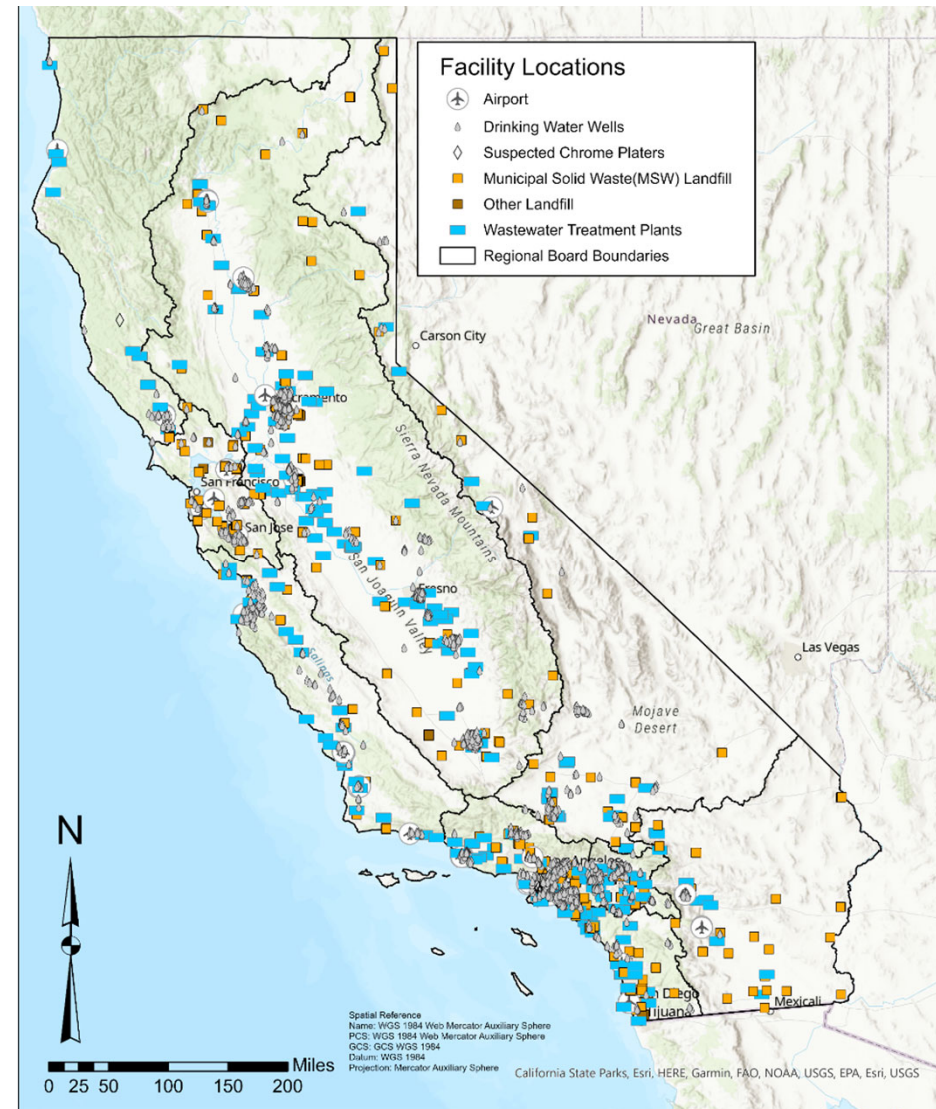
OEHHA: Office of Environmental Health Hazard Assessment

PFAS Regulation for Drinking Water

PFAS IN DRINKING WATER (ppt)										
	US EPA					CA State Water Board				
	Health Advisory Level	Maximum Contaminant Level		Proposed Maximum Contaminant Level		Public Health Goal	Current Notification Level	Proposed Notification Level	Current Response Level	Proposed Response Level
PFOA	0.004	4.0		No change		0.007	5.1	4.0	10.0	No change
PFOS	0.02	4.0		No change		1.0	6.5	4.0	40.0	No change
PFHxS	10	10	1.0 Hazard Index	Rescind	Rescind	OEHHA developing	3.0	No change	20.0	10.0
PFBS	2,000	-	1.0 Hazard Index	-	Rescind	-	500.0	No change	5,000	No change
GEN-X	10	10	1.0 Hazard Index	Rescind	Rescind	-	-	-	-	-
PFNA	-	10	1.0 Hazard Index	Rescind	Rescind	-	-	-	-	-
PFHxA	-	-	-	-	-	-	-	1,000	-	10,000

PFAS Efforts Statewide and in the Santa Ana Region

- Since 2019, investigative/monitoring orders issued to the following industries:
 - Municipal solid waste landfills (March 2019)
 - Commercial airports (March 2019)
 - Suspected chromium plating facilities (Oct. 2019)
 - Wastewater treatment plants (July 2020)
 - Refineries and bulk terminals (March 2021)
 - Drinking water supply wells (2019, 2020, 2021, 2022)



CA Drinking Water Supply Wells - PFOA/PFOS > NLs

➤ Statewide Detections:

- Total No. of Supply Wells Tested: **2,958**
PFOA impacted above NL: **382 wells**
Max QRAA detected: **350 ppt**
- **PFOS** Impacted above NL: **459 wells**
Max QRAA detected: **260 ppt**

➤ R8 Detections:

- Total No. of Supply Wells Tested: **512**
PFOA impacted above NL: **142 wells**
Max QRAA PFOA detected : **240 ppt**
- **PFOS** Impacted above NL: **145 wells**
Max QRAA PFOS detected: **240 ppt**



QRAA: Quarterly running annual average



Results of PFAS Testing in CA Drinking Water Supply Wells

- PFOA and PFOS are the primary PFAS of concern in Ca
- 98% of water systems with PFAS detections have PFOA or PFOS above 4.0 ng/L
- PFHxS and PFNA exceed 10.0 ng/L in only a few water sources
- GenX has not been detected in any water systems in CA
- Over 100 water systems are in the process of planning, constructing, or operating treatment systems for PFAS removal.

Cont. PFAS Efforts Statewide

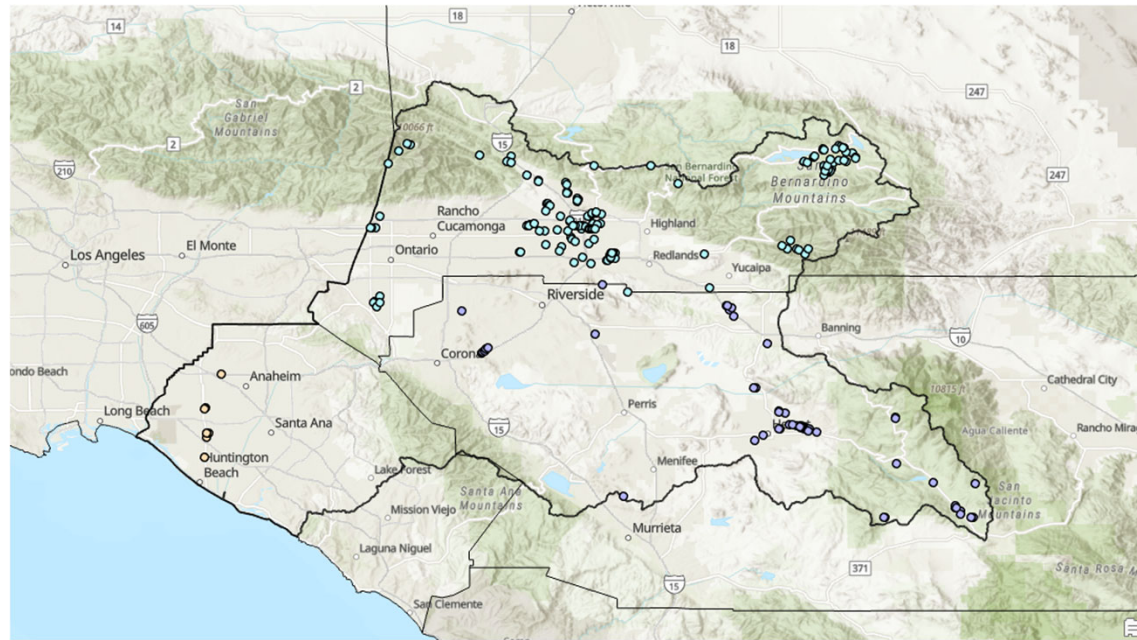
- Drinking water supply wells in disadvantaged communities (DAC) (March 2024)
- Number of wells to be sampled: 3,659 in 1,142 water systems
- Currently, we have data for 1,773 wells



Sampling Results from DAC Supply Wells in the Santa Ana Region

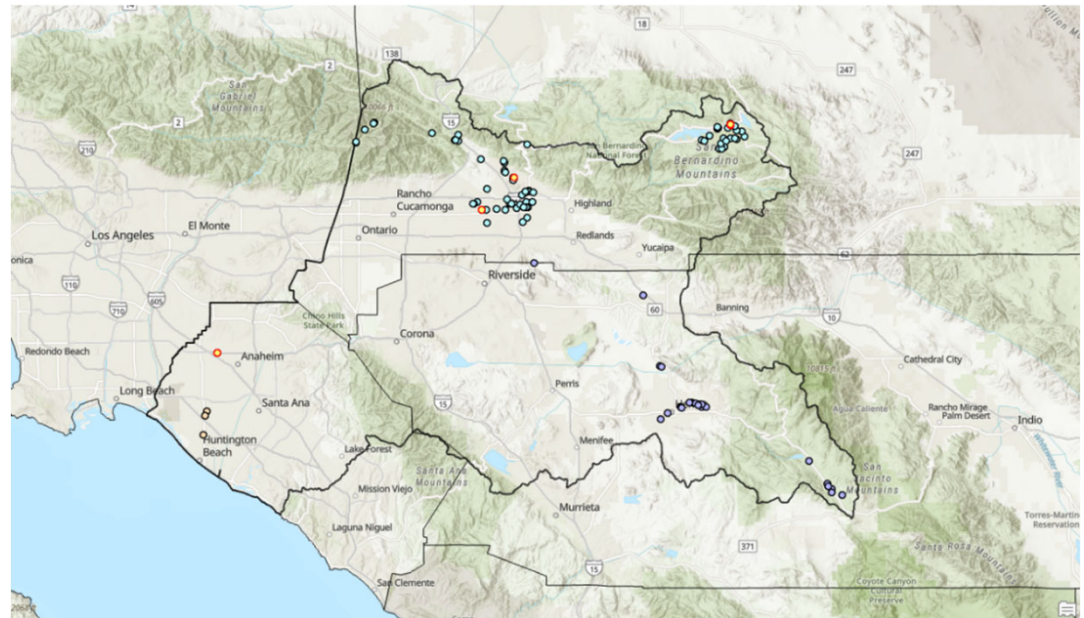
➤ Number of wells found in Region 8 in DAC: 226

- Orange County: 7
- Riverside County: 51
- San Bernadino County: 168



Sampling Results from DAC Supply Wells in the Santa Ana Region

- Wells with sampling results currently available: **113**
- Supply wells with PFOS detections: 9
 - **4** wells > 4.0 ng/L
- Sampled wells with PFOA detections: 18
 - **5** wells > 4.0 ng/L



Questions/Comments

