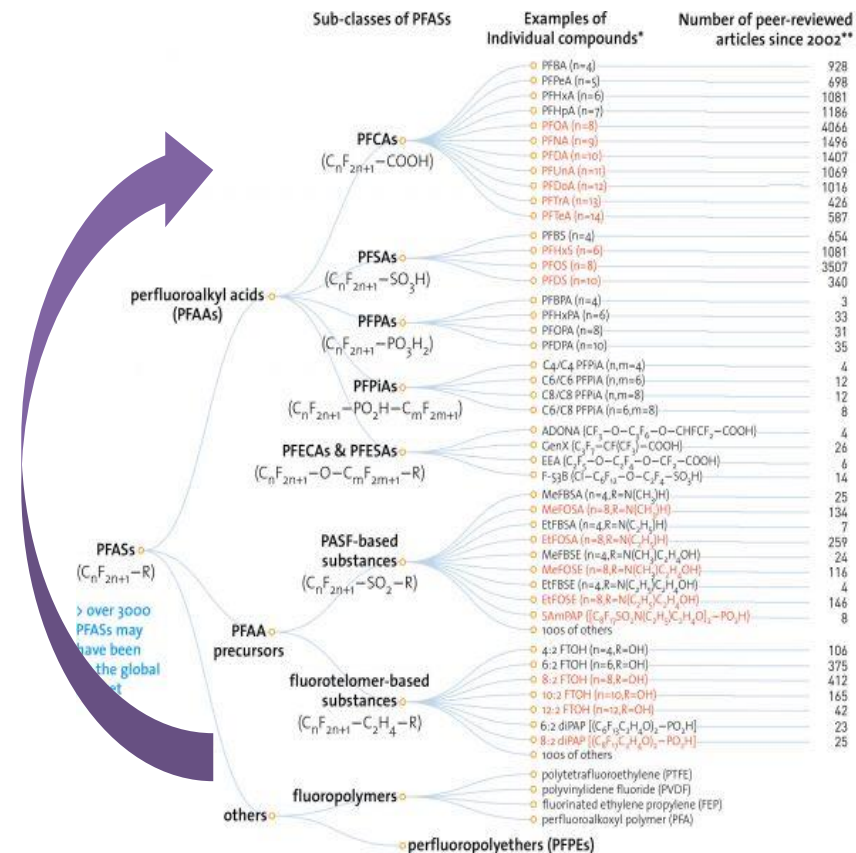
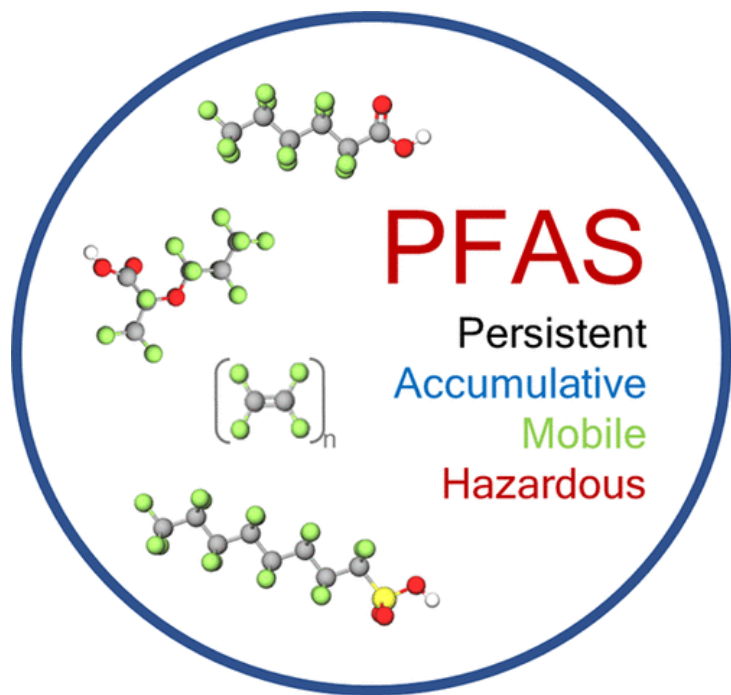

PFAS in California

**Western Town Hall
May 5, 2021**



Andria Ventura, Policy Director

First Things First



Health Effects Linked to PFAA Exposure

Summary of ATSDR's Findings on Health Effects from Perfluoroalkyl Acid Exposure

	Immune	Developmental & Reproductive	Lipids	Liver	Endocrine	Body Weight	Blood
PFOA	×	×	×	×	×	×	×
PFOS	×	×	×	×	×	×	×
PFHxS	×	×		×	×		×
PFNA	×	×	×	×	×	×	
PFDeA	×	×	×	×	×	×	
PFDaA	×	×		×		×	
PFUA	×	×		×		×	×
PFHxA		×		×			×
PFBA		×		×	×		×
PFBS		×		×	×		×
GenX	×	×		×			

Additive and/or synergistic effects likely

PFAS in CA Water:

Monitoring & Site Investigation

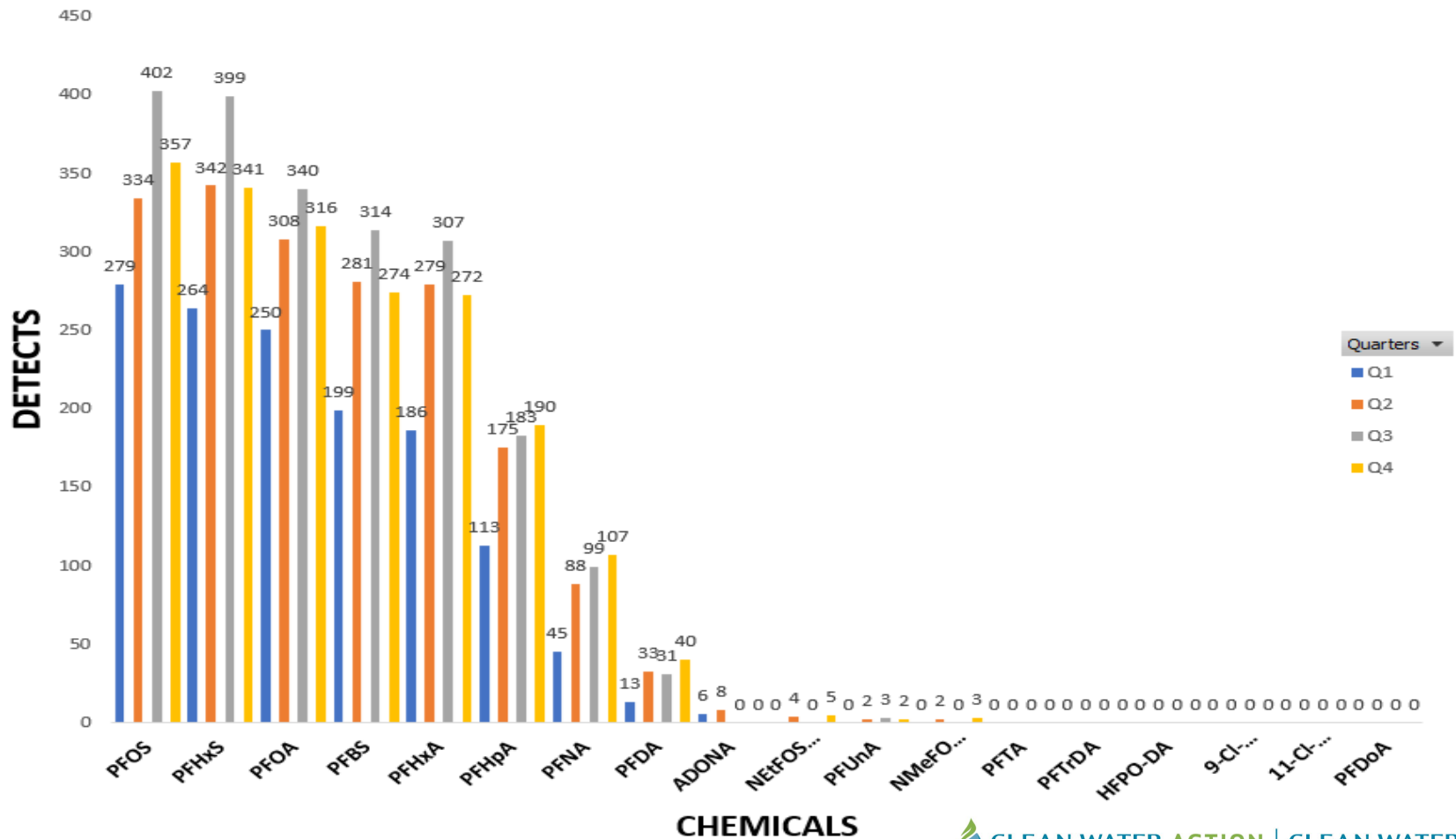
- *Phased* monitoring of drinking water
- PFAS site investigation: **landfills, airports, UCMR 3 water systems, refineries, wastewater systems, metal plating, fire training areas, urban wildlife areas, other industrial dischargers.**



PFAS in CA Water

Drinking Water Monitoring & Site Investigation

DETECTS BY CHEMICAL



PFAS in California Water Cont.

- Notification and Response Levels for PFOA/PFOS -10/40 ppt (non-enforceable)
- AB 756 (Garcia) – expands public notification when PFAS are found in drinking water over an NL or RL
- Pending Response Level for PFBS
- Beginning regulation for PFOA/PFOS alone-can take a decade.

Missing Links



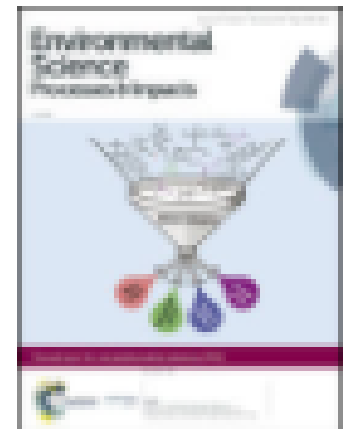
Other California Efforts



- Asian/Pacific Islander Community Exposure (ACE) Project 1&2
- California Regional Exposure (CARE) Study
(MePFOSA-AcOH – 100% Los Angeles subjects)
- California Teacher's Study
- Firefighter Occupational Exposures (FOX)

Source reduction efforts:

- **SB 1044 (Allen) – bans non federal uses of PFAS firefighting foam (2020)**
- **AB 1200 (Ting) – food pkg and cookware (introduced)**
- **AB 652 (Friedman) – children’s products (introduced)**
- **PFAS in carpets and treatments**
- **END GOAL- STOP ALL NON-ESSENTIAL USES OF PFAS** <https://doi.org/10.1039/C9EM00163H>



What's Needed?

Expanded understanding of scope of the problem – For **all** PFAS

- ☐ More water monitoring in rural areas, small systems, and private wells.
- ☐ Consideration of other environmental media
- ☐ Understanding of other sources of PFAS- products, workplaces, fishing, food sources.
- ☐ Who are the most impacted?
- ☐ Other ways to look for PFAS in the environment and people.

What's Needed?

Better public understanding of health effects
esp. of PFAS mixtures and PFAS w/ other
contaminants.

1. Who is most impacted and why?
2. Multi-lingual communications and culturally appropriate outreach for biomonitoring and medical care
3. Solutions: Ways to avoid PFAS
4. **AND STOPPING NON-ESSENTIAL USES OF THESE CHEMICALS.**

Links

CA Biomonitoring-PFAS in Firefighters:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4274322/>

ACE Study:

<https://biomonitoring.ca.gov/projects/asianpacific-islander-community-exposures-ace-project-ace-1>

CARE Project-LA PFAS Findings:

<https://biomonitoring.ca.gov/results/projects/2876>

CARE Project – Region 2 PFAS Findings:

<https://biomonitoring.ca.gov/results/projects/3088>

California Teacher's Study PFAS Findings:

<https://biomonitoring.ca.gov/results/projects/411>

Preliminary Associations between the Detection of Perfluoroalkyl Acids (PFAAs) in Drinking Water and Serum Concentrations in a Sample of California Women (Hurley, et. al)

<https://pubs.acs.org/doi/abs/10.1021/acs.estlett.6b00154>

Other Biomonitoring California studies related to PFAS:

<https://biomonitoring.ca.gov/chemicals/perfluoroalkyl-and-polyfluoroalkyl-substances-pfass>



Thank you

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