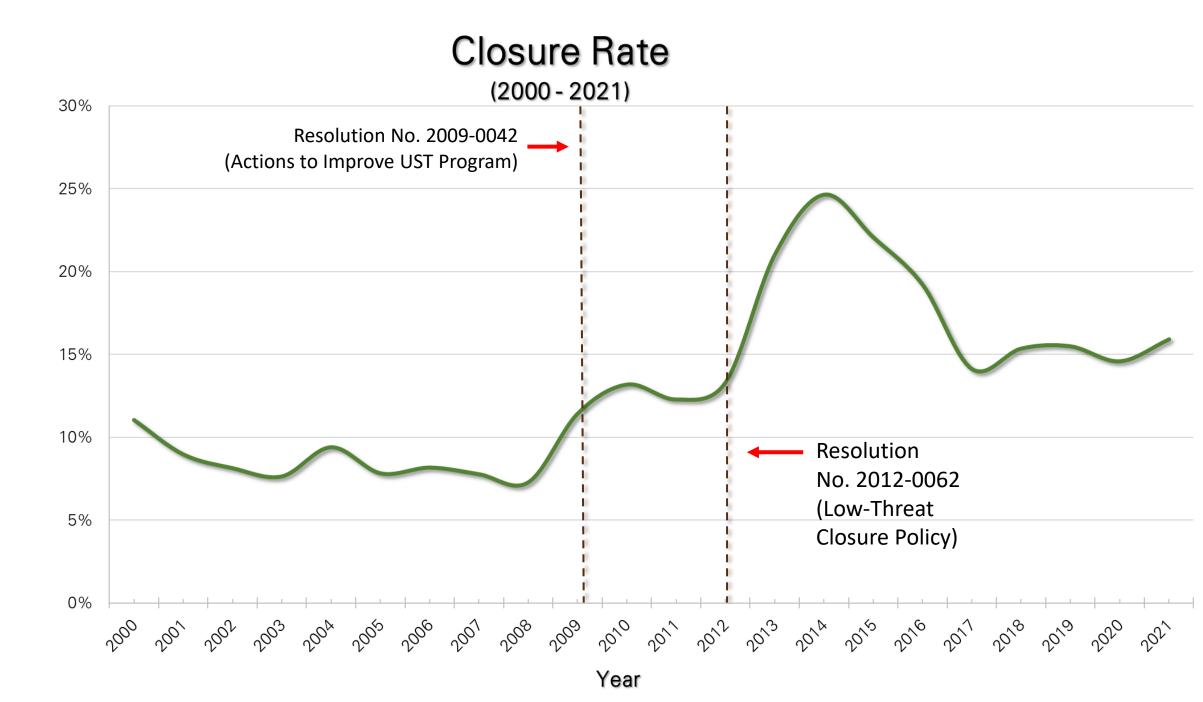
# Underground Storage Tank Cleanup Program Update

Matthew Cohen, PG

# **Program Overview**

- Nearly 41,000 cases closed (95% of all cases)
  - 347 closed 2021 calendar year
  - Average case age at closure is 18 years
- Approximately 1,848 cases left
  - Lead Agencies
    - 1,476 Regional Water Board
    - 372 Local Oversight
  - Funding
    - 1,072 active Cleanup Fund
    - 775 cases with no Cleanup claim
- Number of new cases is decreasing

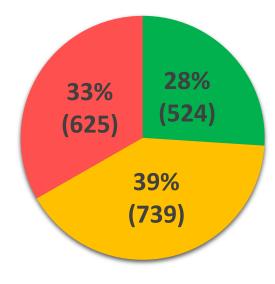


Percent of Total Case Load Closed

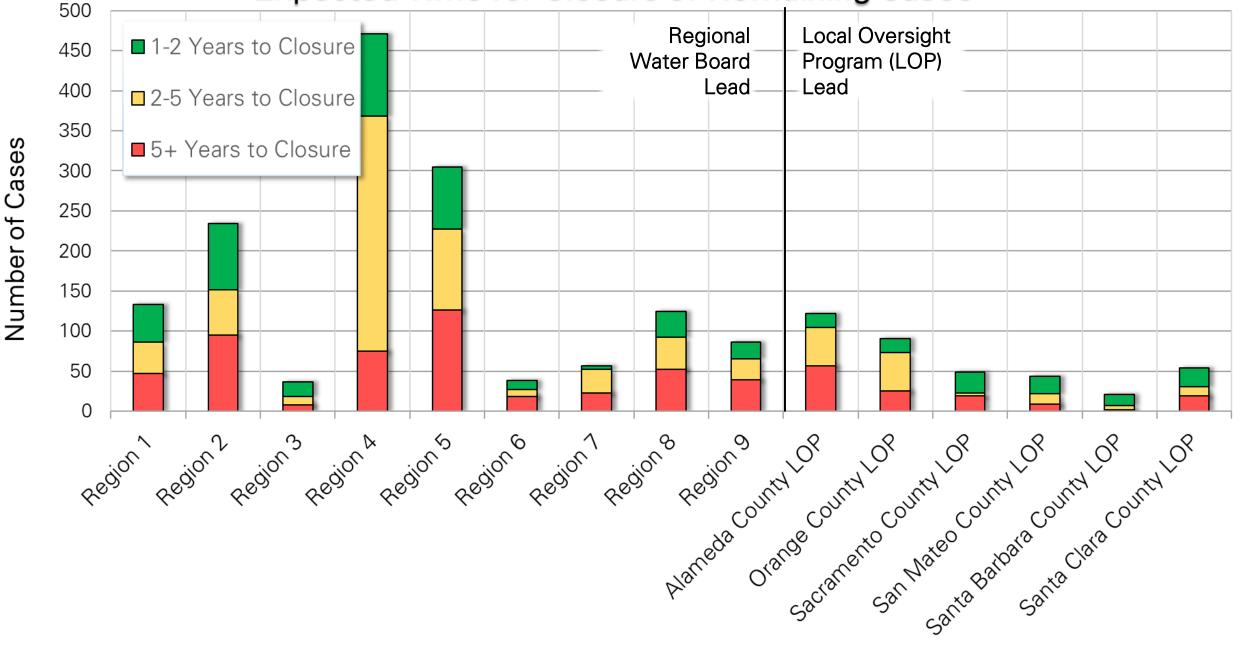
### CURRENT PORTFOLIO

- 625 Potentially stalled cases
  - Unresponsive or unwilling responsible parties (RP)
  - Complex site conditions
  - Ineligible for Cleanup Fund
- Stalled cases = more staff resources
- Need new business processes and tools for stalled cases

#### Expected Time for Closure of Remaining Cases



**Expected Time for Closure of Remaining Cases** 



5

# WHAT IS A STALLED CASE?

Cleanup and investigation activities are not progressing the case toward closure as expected.

# Why are there stalled cases?

- Human nature is to focus on the easy cases
- Low-Threat Closure Policy
- Over 95 percent of all cases Closed
- Stalled cases = more time and money

### **Stalled Case initiative**

#### Who

- Regional Board and LOP Staff
- State Water Board Staff
- U.S. EPA Staff
- U.S. EPA Contractor (In-Kind)

#### Red = Strike Team

#### How

- Identify stalled cases
- Quarterly meetings
- Collaborative group discussions
- Find creative solutions
- Develop individual case strategies
- Strike Team assistance implementing strategies





# What does the Stalled case Strike team do??

- Identify and locate responsible parties
- Help draft enforceable directives
  and violations
- Assist with funding applications
- Complete limited-scope investigations (grant funds)
- Anything else?

### **Stalled case initiative - Results**

- Directives:
  - 104 enforceable, 86 Informal
- Enforcement:
  - 41 NOVs or Draft ACLs
- Funding:
  - 98 funding secured,
  - 45 additional applications pending

#### • Fieldwork:

- 84 sites with new fieldwork,
- 34 with workplan in place
- Closure:
  - 120 cases closed,
  - 48 in progress





## **Enforcement Team**

- Dedicated UST Cleanup attorney
- OE Staff
- EPA funded contractor support
- Meeting with RBs to identify Priorities
- Training staff to tee-up for enforcement
- Active case engagement



### **Project Planning**

AN

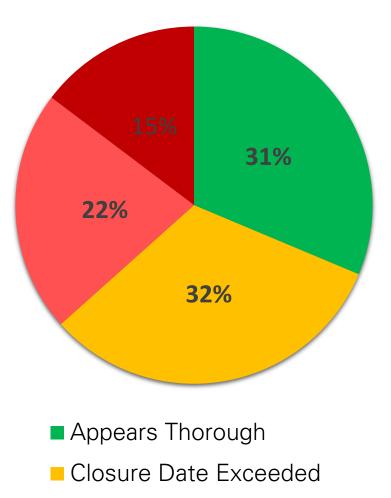
- Why
  - Cleanup Efficiency
  - Cost Effectiveness
- How
  - Work With Stakeholders
  - Identify Obstacles
  - Develop Goals/Milestones
  - Follow Through and Follow-Up

rau

12

## **Path to Closure Plans**

- Resolution 2012-0062 required path to closure plans
- Quality plans help program planning
- Guide RPs/consultants
- Easy GeoTracker form
- Path to closure plan improvement needed
- Path to closure meetings (state board facilitated)
- OE training (November 2018)



- Lacks Sufficient Information
- No and/or Incomplete PTCP



## **Future Challenges**

- Removal of Single-Wall Systems
  - Deadline is December 31, 2025
  - 3,166 features from 1,286 facilities
  - Expect up to 500 new cases
- Cleanup Fund Sunset 2025
  - Funding for Cleanup is uncertain
  - Finical Assurance unclear

# **Program Future**

- Future of the Underground Storage Tank Program with diminishing caseload
  - Plan for the eventual transition of open cases and resources to the Site Cleanup Program
  - Apply the successes of the UST Program to the Site Cleanup Program





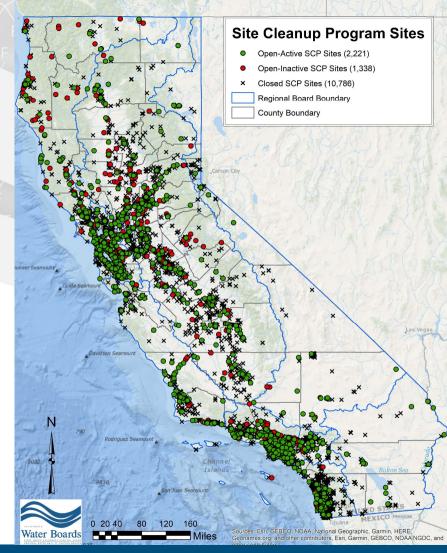
# Site Cleanup Program Overview

### March 2022 CUPA Conference Cheryl Prowell, DWQ

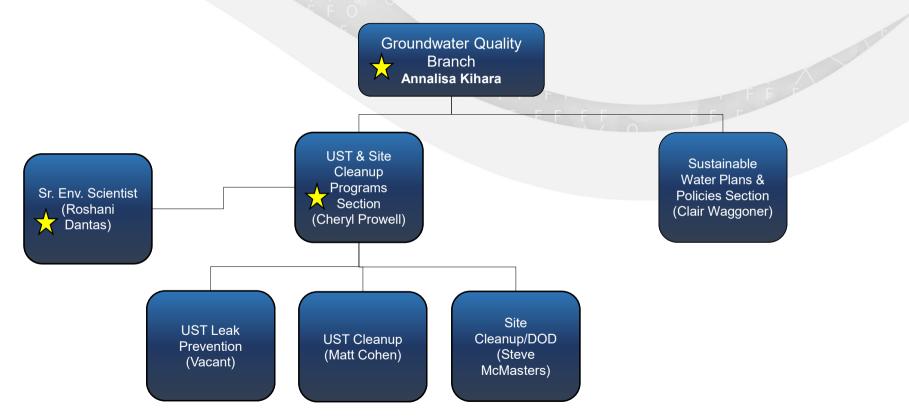


### **Topics**

- Status of the cleanup program
- Environmental Justice
- PFAS
- Vapor Intrusion



### **Organization Updates – State Board DWQ**

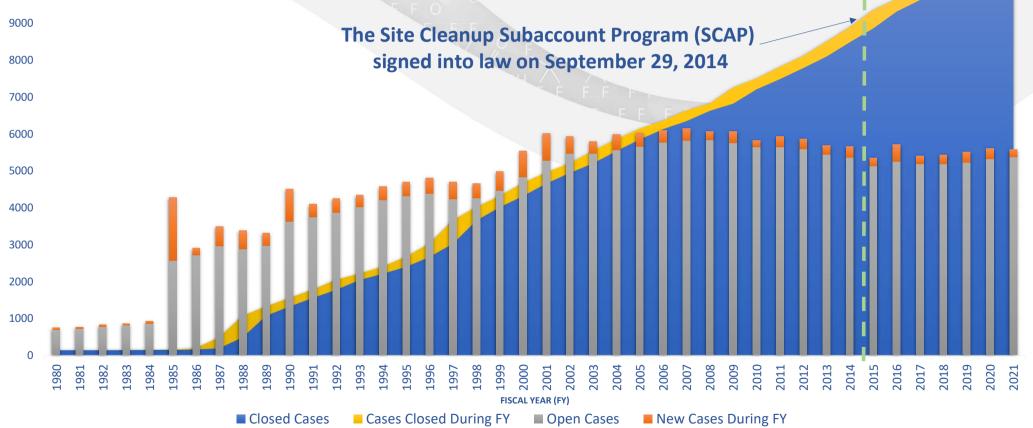


### Site Cleanup Program Case Trends

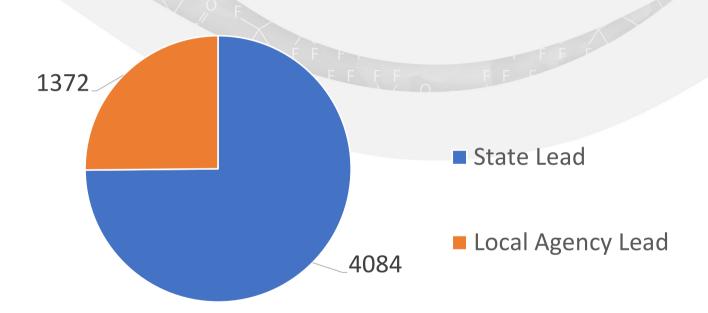
11000

10000

CASES PER YEAR



### **Open Cleanup Cases in GeoTracker**



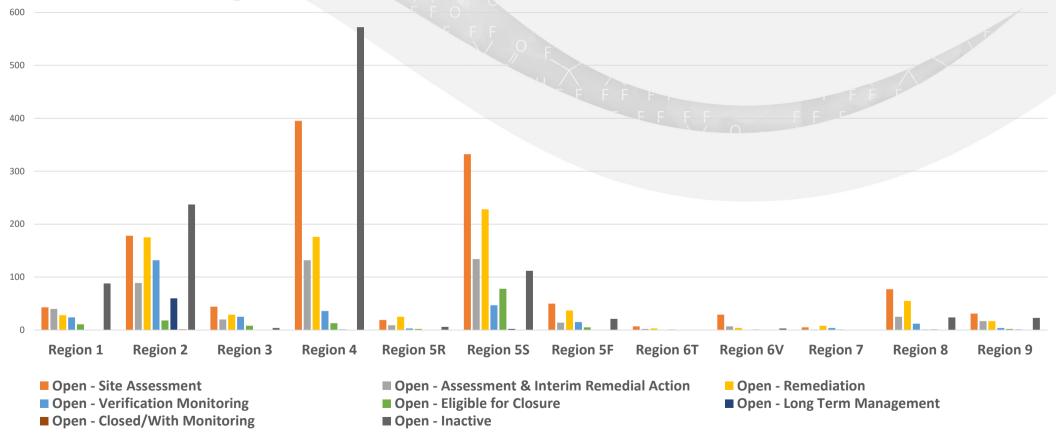
Data as of 1/3/2022

### **Assembly Bill 304**

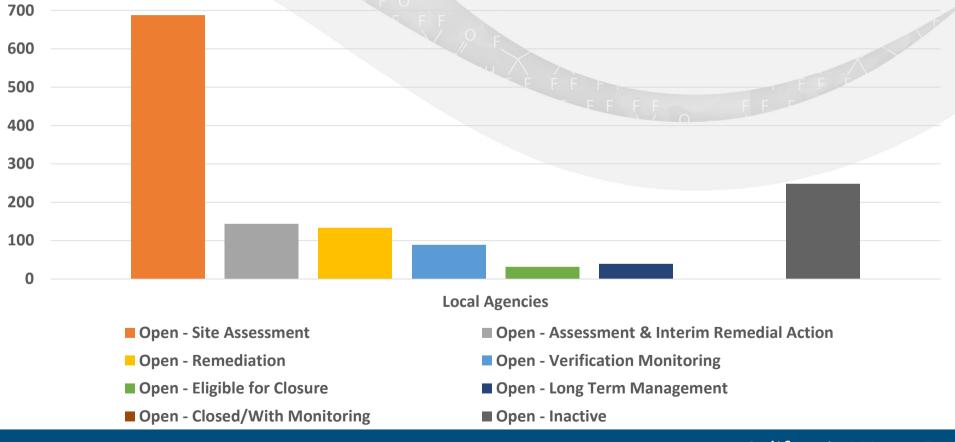
- Updates requirements for voluntary programs by local agencies under Public Health Officer authority
  - Use of GeoTracker
  - Expanded notification to DTSC/Regional Boards when new cases are opened
  - Self-certification of staff expertise
  - Programs will follow Water Code and Health and Safety code
- New Quarterly Roundtable for Voluntary Cleanup Programs



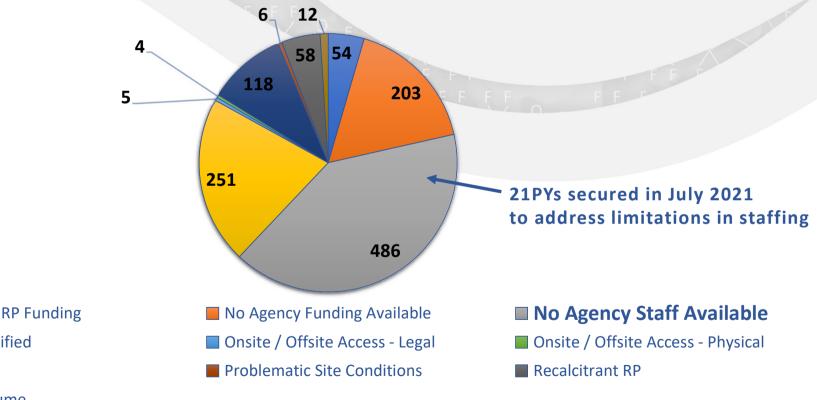
### **SCP Open Cases– Water Board**



### **SCP Open Cases – Local Agencies**



### **SCP Inactive Characteristics**



Inadequate RP Funding
 No RP Identified
 Other

Regional Plume

### **Contaminated Properties in California**

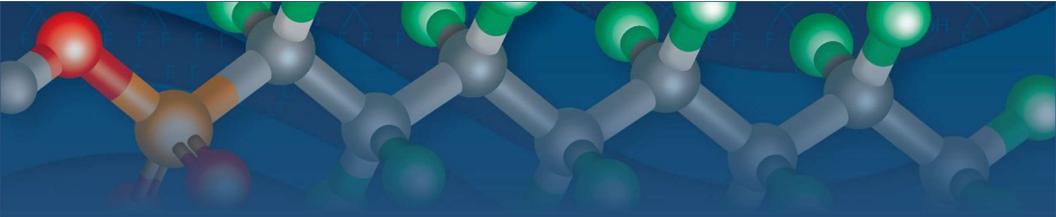
EPA TRI Sites, 1,812

Open-Active SCP Sites (GeoTracker), 4,042 Water Board PFAS Sites, 463 DTSC Open Cleanup Sites (EnviroStor), 1,187 DTSC Inactive-Action Required, 288 DTSC Inactive - Needs

Evaluation, 2,233

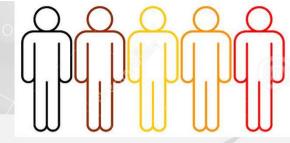
Historic Known & \_\_ Unpermitted Dry Cleaners, 12,947

Active Permitted Dry Cleaner Sites, 1,791



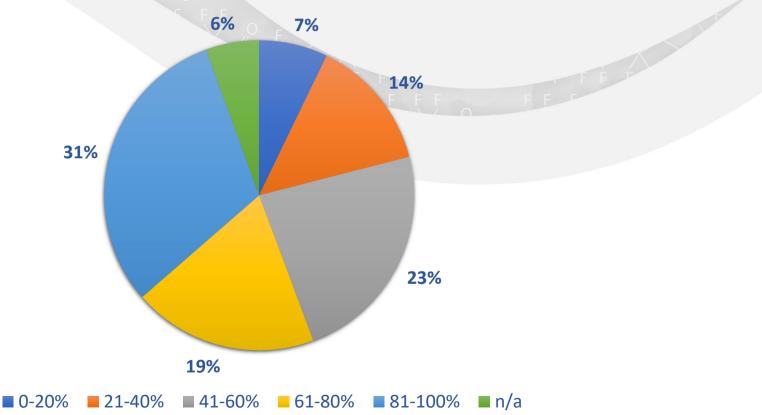
## **Environmental Justice**

### **Environmental Justice**

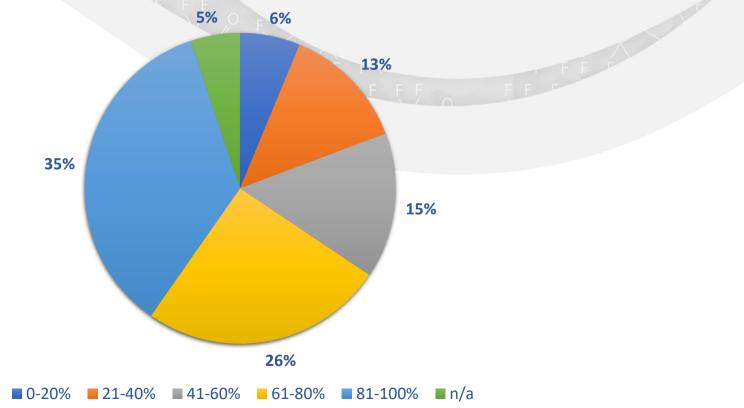


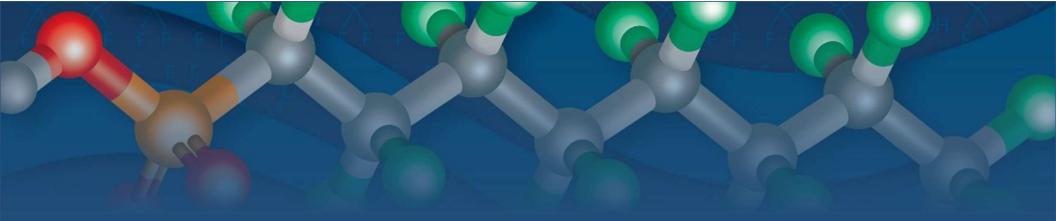
- November 2021 Resolution No. 2021-0050 Condemning Racism, Xenophobia, Bigotry and Racial Injustice and Strengthening Commitment to Racial Equity, Diversity, Inclusion, Access, and Anti-Racism
  - Commits to making racial equity, diversity, inclusion, and environmental justice central to our work as we implement our mission so that the access the State Water Board creates, and outcomes we influence, are not determined by a person's race and the benefits are shared equitably by all people.
  - Staff shall advance a framework of transparency, accountability, and continuous improvement for our racial equity work by establishing metrics and using quantitative and qualitative data collection methods to measure and evaluate the Water Boards' progress toward: implementing those metrics; equitizing our systems, practices, and policies; and diversifying the Water Boards' workforce.

### Open Cleanup Cases by CalEnviroscreen Score

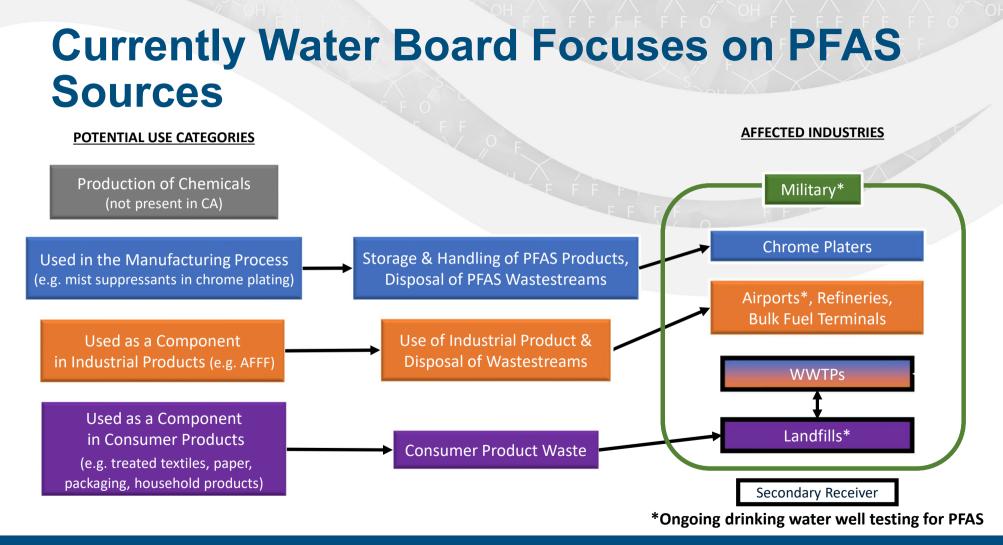


### Inactive Cases by CalEnviroscreen Score





# PFAS



#### California Water Boards

April 2022

# State-wide Industry Investigative Orders has provided vital information but there are gaps

Media	Chrome Platers	Airports	Landfills	POTWs	Bulk Fuel Terminals/ Refineries
Soil				* Includes biosolids	
Groundwater					
Stormwater					
Surface Water/ Sediment					
Wastewater			* Includes leachate		

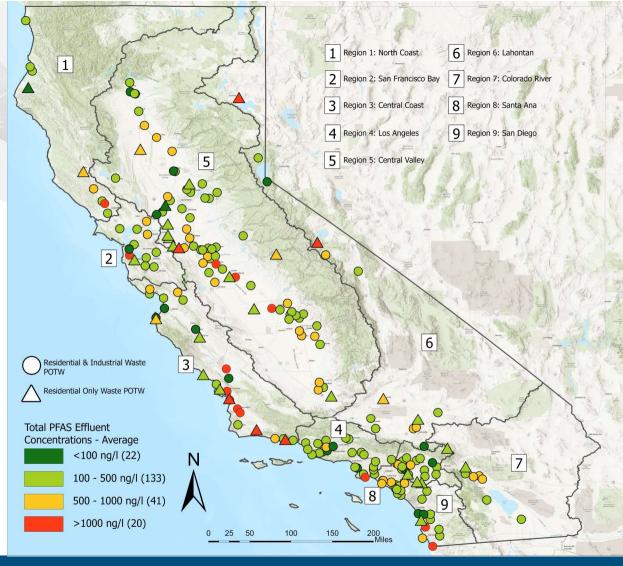
To be assessed	Not Detected to Low	Moderate Concentrations	Significant Concentrations
	Concentrations (<100 ppt)	(100 ppt to 5,000 ppt)	(>5,000 ppt)
	concentrations ( 100 ppt)	(100 ppt to 5)000 ppt)	(* 5)000 ppt)

All matrices were analyzed using the DoD QSM with 25 to 38 analytes.

### PFAS is Ubiquitous in Wastewater

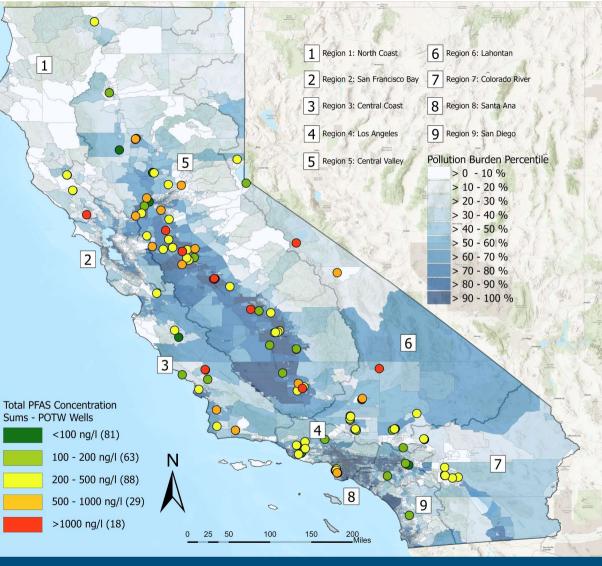
Data downloaded in February 2022 Samples analyzed using the DoD QSM (38 analytes)

April 2022



### PFAS is also in Groundwater

Data downloaded in February 2022 Samples analyzed using the DoD QSM (38 analytes) Pollution Burden Percentiles from CalEnviroScreen V4.0



#### California Water Boards

April 2022

### **PFOA** and **PFOS** exceed the Drinking Water Response Level in some areas

Data downloaded in February 2022 – raw water results NL = Notification Level; QRAA = Quarterly Running Annual Average RL = Response Level PFOA and PFOS analyzed using EPA Method 537.1 PFOA: = NL = 5.1 ng/L, RL = 10 ng/L [] PFOS: NL = 6.5 ng/L, RL = 40 ng/L



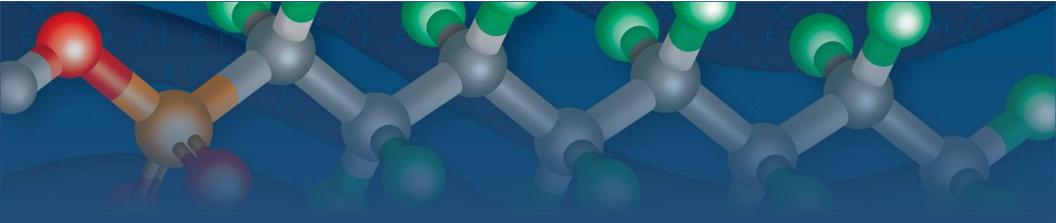
#### California Water Boards

April 2022

### **State Water Board PFAS Information Item**

For More info about PFAS:

- Informational item at State Board meeting April 5, 2022 9:30 AM
- <u>https://www.waterboards.ca.gov/board\_in</u> <u>fo/agendas/2022/apr/04\_05\_2022\_agenda</u> links.pdf



# **Vapor Intrusion**

### **Vapor Intrusion**

- Final Draft Supplemental Vapor Intrusion Guidance Pending final review/approval. Possible release spring 2022.
- Water Board is moving to policy Update to State Board Resolution No. 92-49 in process. CEQA scoping meetings to be held April 28.
- Link to CEQA Scoping Meeting Information: <u>https://www.waterboards.ca.gov/water\_issues/programs/site\_clean\_up\_program/vapor\_intrusion/</u>

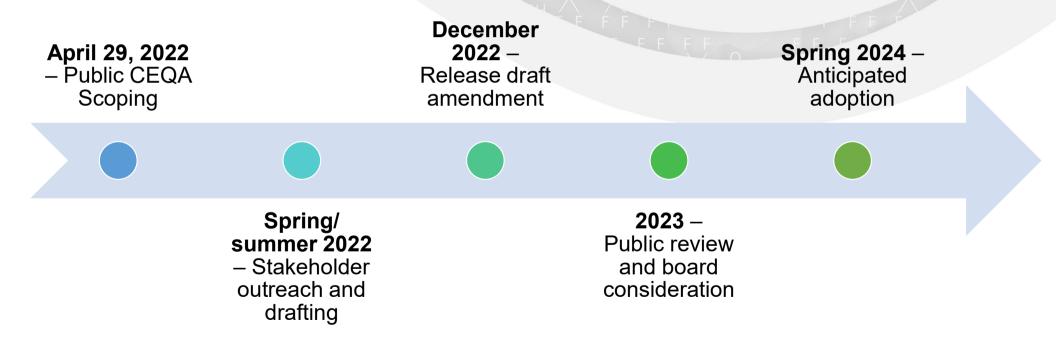
### How to use guidance?

- Menu of tools not requirements or regulations
- Represents current science
- Good technical approach
- Describes factors to consider in site specific decisions
- Provides options and describes when other approaches may be appropriate
- Not a prescriptive cookbook

### Need Policy for enforceable minimum requirements

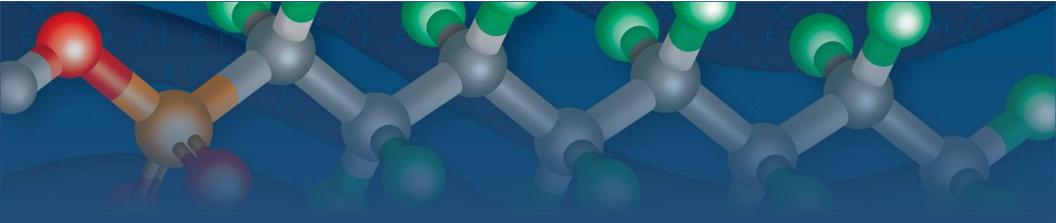


### State Board Resolution 92-49 Update – Tentative Schedule



### Conclusions

- SCP successful at cleanup and closure of over 10,000 sites
- SCP is fairly stagnant in open cases & closure rates
- More cases than any agency can do alone. AB304 helps us document and support the work that local agencies do.
- Data from PFAS is coming in, and indicating that there are elevated concentrations in multiple media, especially near airports and landfills
- Final Draft Vapor Intrusion Guidance is anticipated. State Board Resolution No. 92-49 is being updated to make key elements Policy.



# Questions