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# Innovations In Mapping and Achieving Water Justice In Disadvantaged Communities

# The flow of the session

- Who are we and what brings us here?
- Water justice stories
- Mapping water justice in the San Joaquin Valley
- Public policy and advocacy around water justice
- Dialogue: how can we work for water justice in our own communities?

# Water Justice: What does it mean to you?

- Share a story from your home town, current home, work world about challenges in access to safe, affordable and abundant drinking water in your community/ region/ work.
  - What is the problem?
  - How do you know it is a problem?
  - What are you/ others doing to address it?
  - What is working/ what is not working?

# Disadvantaged Unincorporated Communities (DUCs)



Photo: Tara Lohan

<https://www.newsdeeply.com/water/articles/2017/07/05/systemic-failure-why-1-million-californians-lack-safe-drinking-water>

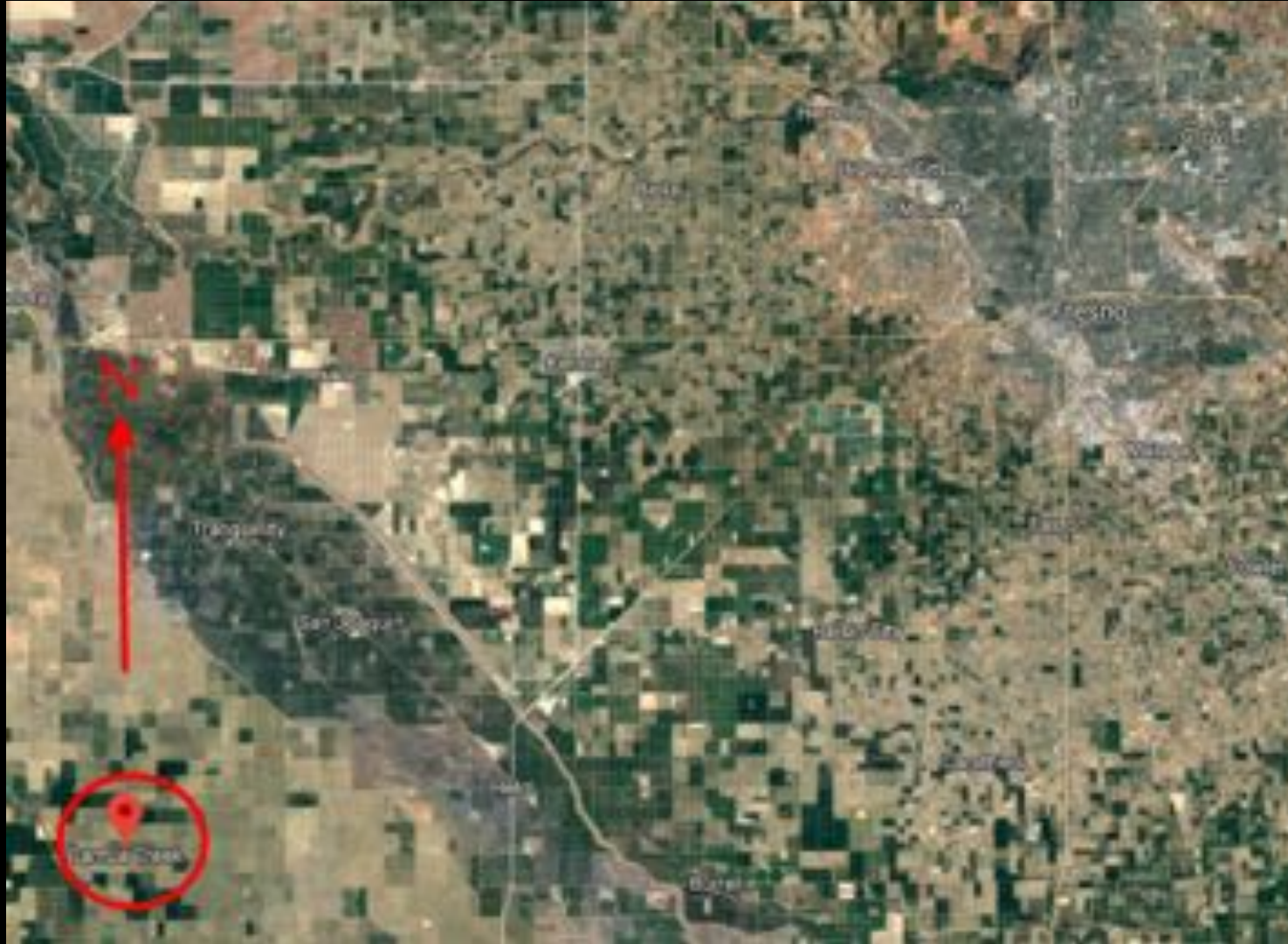




## Water Insecurity in California



# Cantua Creek

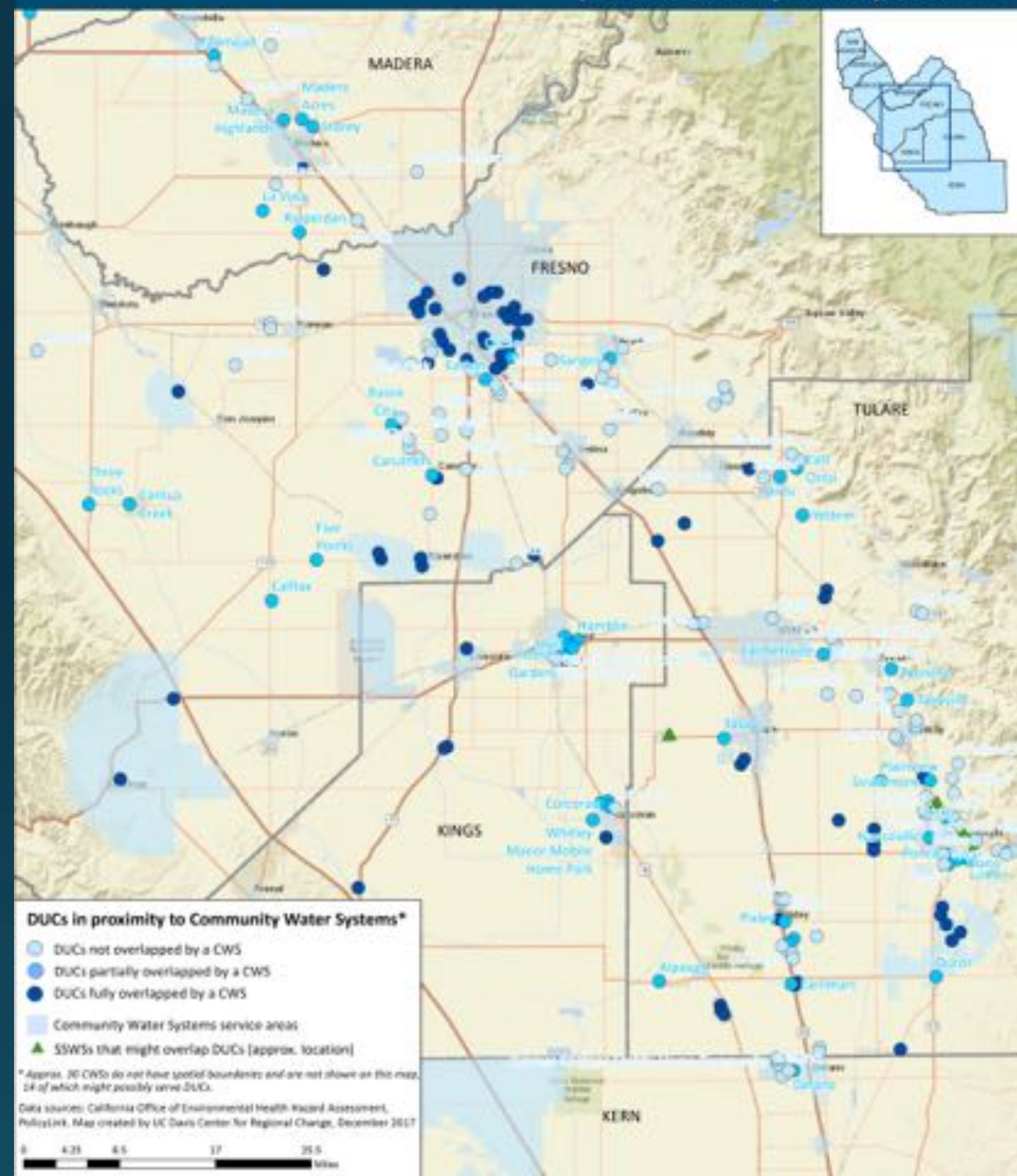




# Tombstone Territory



Map 1b. DUCs and Access to Community Water Systems  
| Central San Joaquin Valley, California



# Access to Drinking Water Systems is Inequitable

One third of all DUC residents live in an area not fully serviced by a Public Water System

30,000 residents on private (unregulated and often untreated) wells



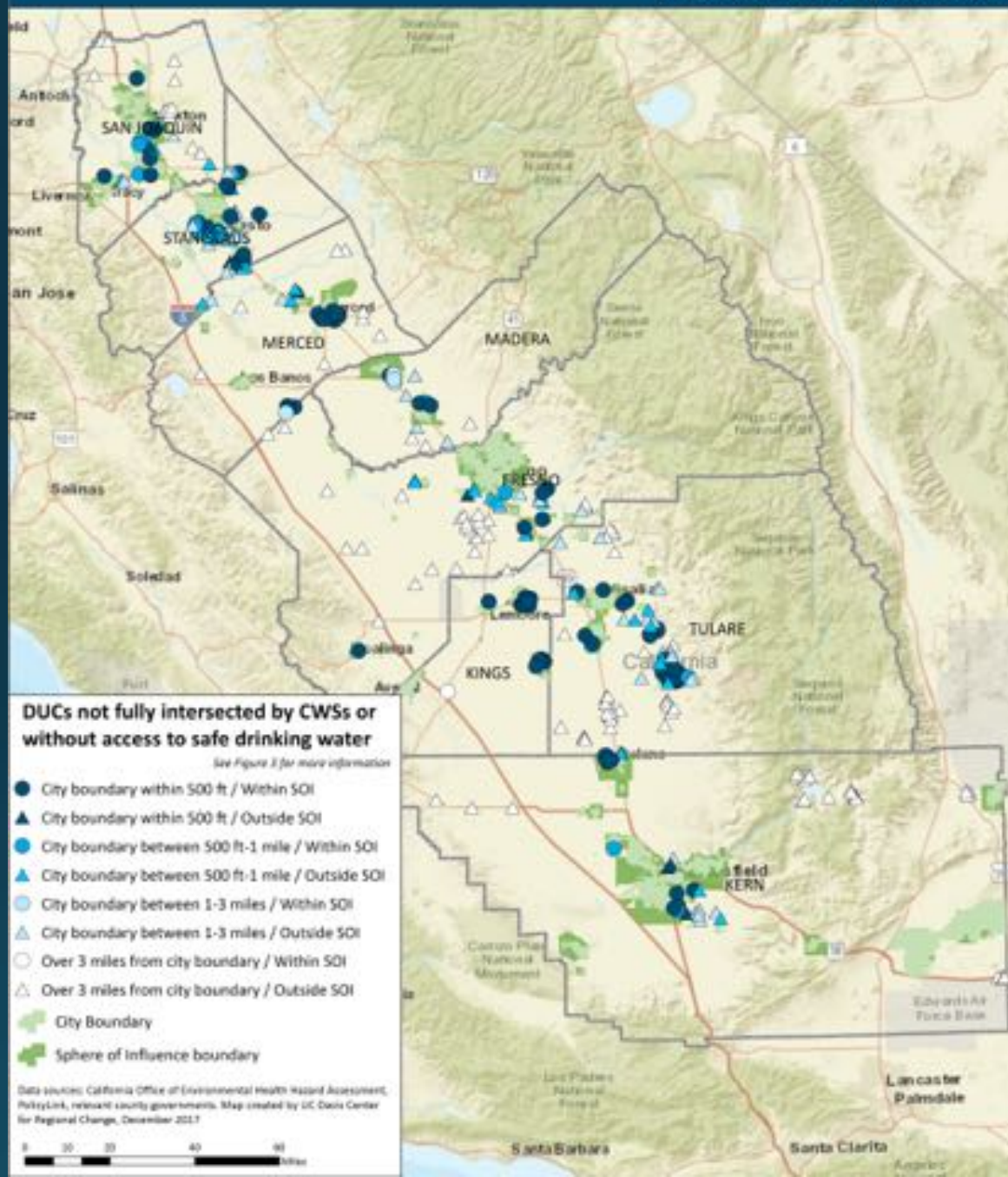
Map 3. DUCs Within or Intersected by Out-Of-Compliance Community Water Systems | San Joaquin Valley, California



# Access to Safe Drinking Water is Inequitable

Over 64,000 people spread across the San Joaquin Valley may be exposed to unsafe drinking water

Map 4.1. Proximity of DUCs to Incorporated City Boundaries  
| San Joaquin Valley, California

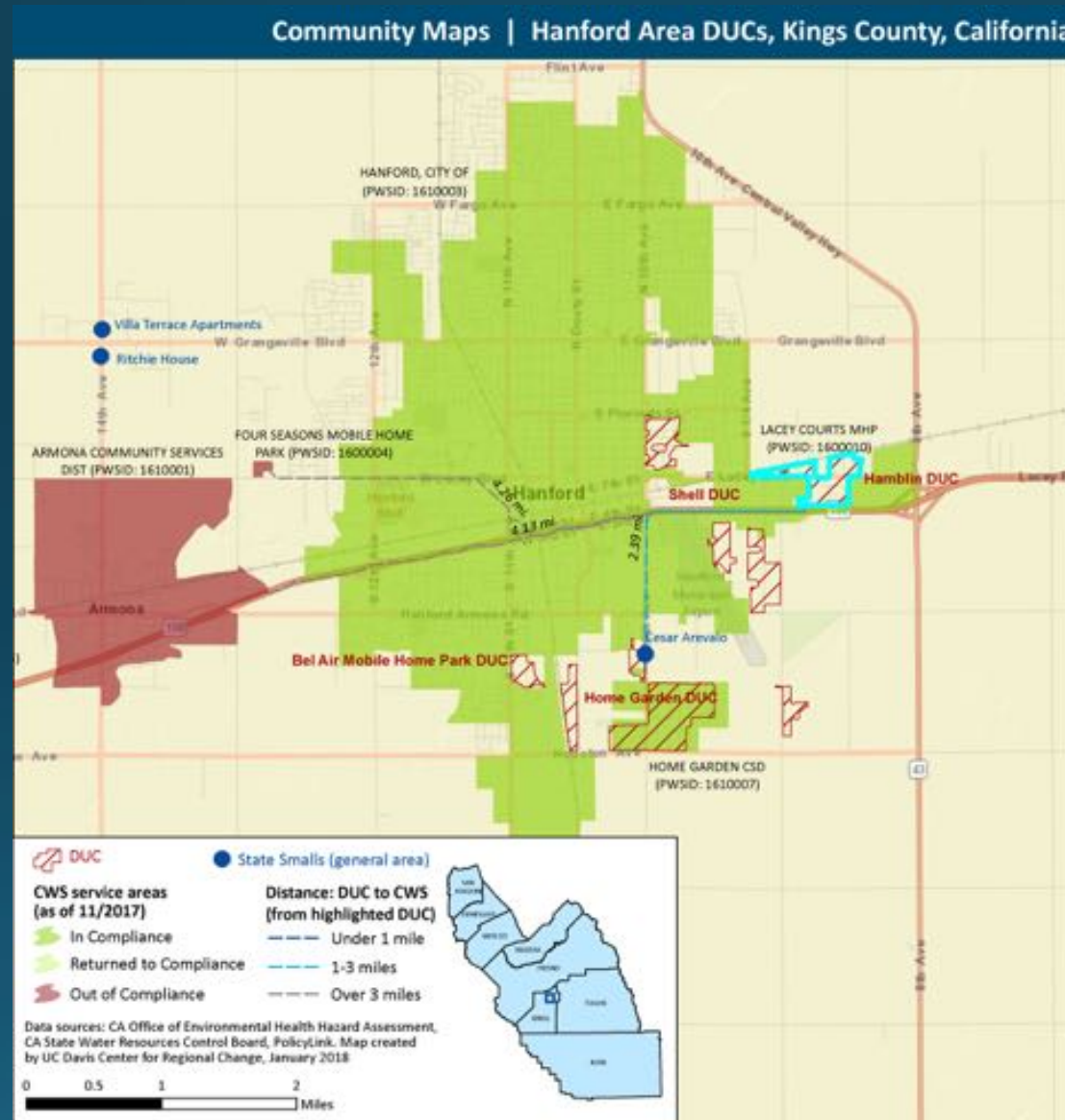


# Safe Water is Close at Hand

66% of DUC residents live in extremely close proximity to a system that does or could provide safe water with proper investments



# Connecting DUCs to Safe Water Supplies





# Recommendations

- Funding for existing water systems and new connections for DUCs
- Enforcement of existing laws on consolidation and annexation
- Improved and coordinated data systems
- Expansion of study (statewide, waste water, cost, private wells, small systems)



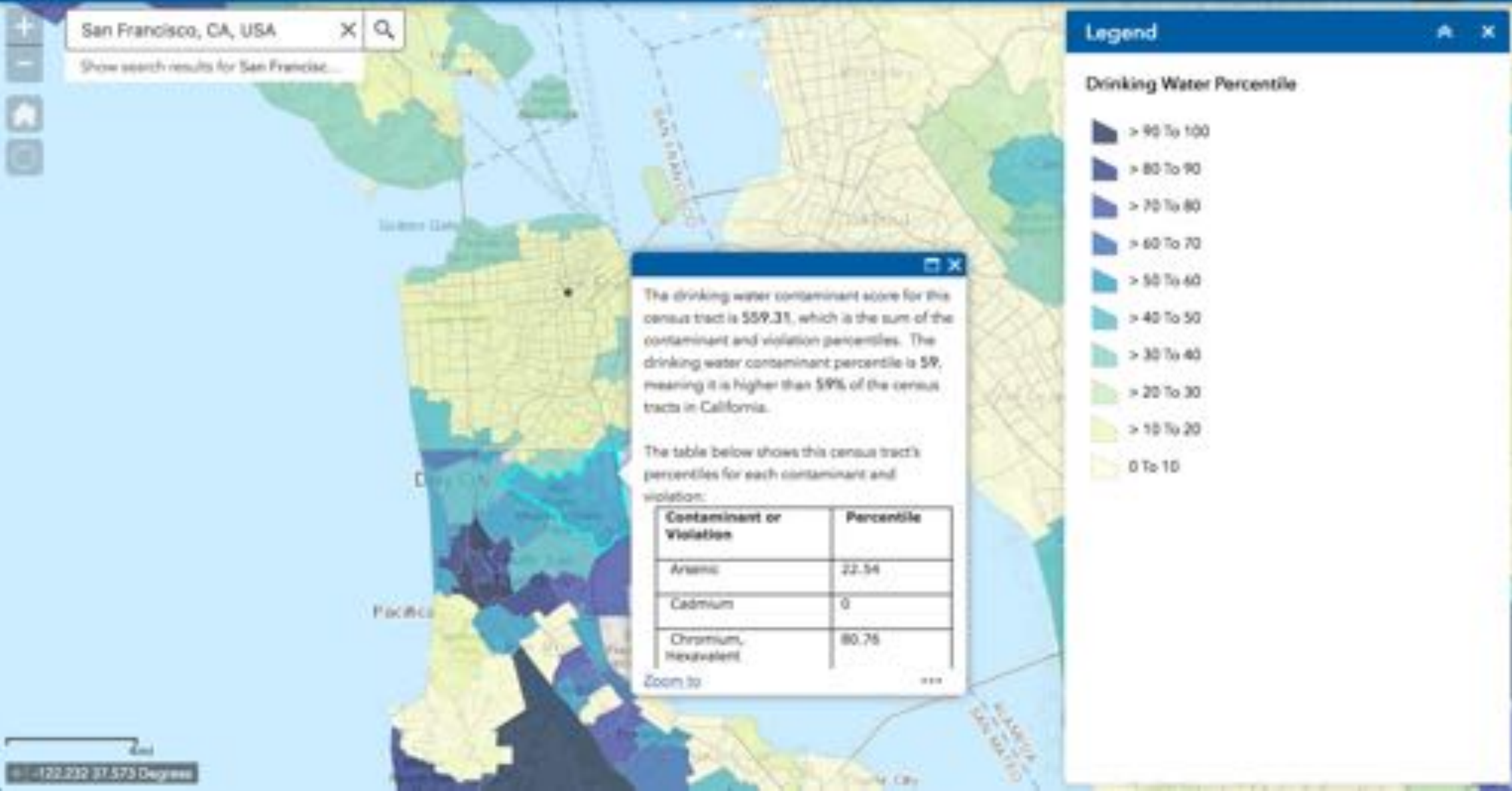
[Violation Details](#)
[Out of Compliance](#)
[Public Water System Boundaries](#)

[Options](#)
[Filter by map extent](#)
[Zoom to](#)
[Clear selection](#)
[Refresh](#)

Water System Number	Violation Number	Violation Type	Result	Analyte	MCL	Violation Begin Date	Violation End Date	Enf. Action Number	Enf. Action Date	Enf. Action Type
CA1510001	9912026	MCL AVERAGE	0.010 MG/L	ARSENIC	0.033 MG/L	December 31, 2013	March 30, 2014	US EPA/PWS AOC-2015-6001	September 28, 2015	US EPA FEDERAL ADMINISTRATIVE ORDER ON CONSENT
CA1510001	9912021	MCL AVERAGE	0.010 MG/L	ARSENIC	0.033 MG/L	December 31, 2013	March 30, 2013	US EPA/PWS	September 28, 2015	US EPA FEDERAL

# Drinking Water results

from CalEnviroScreen 3.0





# Flowing Forward

- How can you get involved in addressing needs of disadvantaged communities in your areas?
  - What tools do you need?
  - What policy mechanisms?
  - How build coalitions for change?