

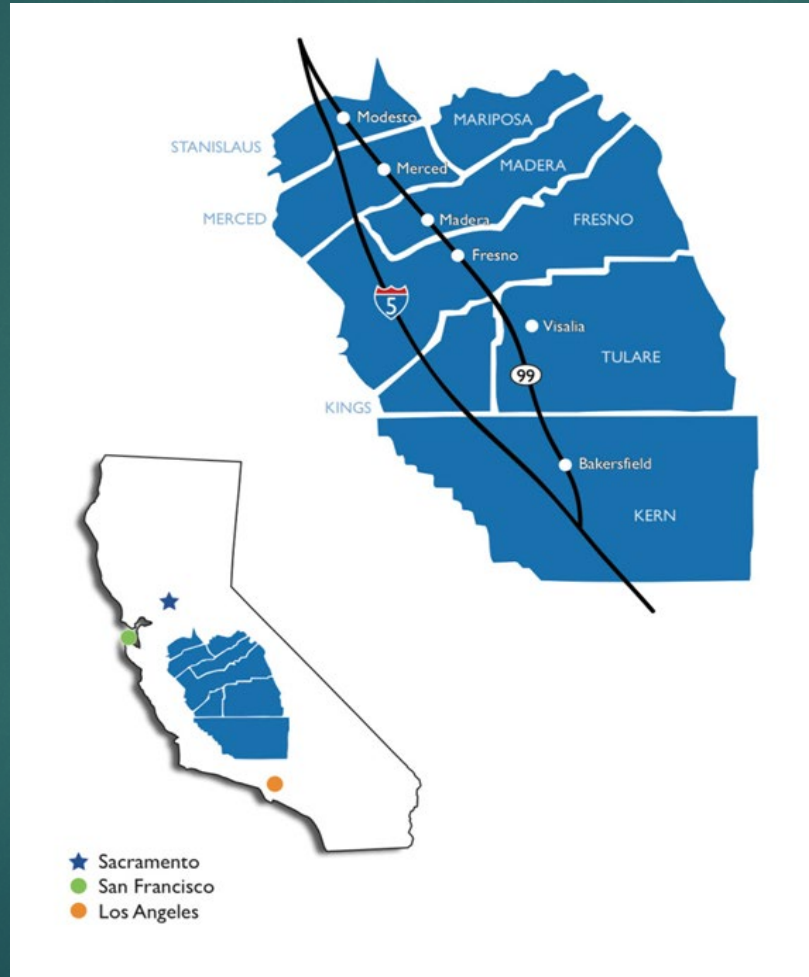


Water Quality & Sustainability in Private Wells

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SELF-HELP ENTERPRISES, EMERGENCY SERVICES

SHE's Service Area

Kern, Tulare, Kings, Fresno, Madera, Merced, Mariposa & Stanislaus Counties



Private Wells

- ▶ In California close to 2 million residents are served by a private domestic well or by an unregistered unregulated small water system (state small).
- ▶ Over 500 disadvantaged communities (DAC) largely dependent on private wells and small systems.
- ▶ Many Private Well Communities ranging from 20 to 630 private wells.

Emergency Services

Established due to the overwhelming need for emergency response during the drought

Since 2014

- ▶ Provided Private Well Owner's resources and education
 - ▶ Water Conservation
 - ▶ Water Quality
 - ▶ Long Term O&M
 - ▶ Financial Management
- ▶ Funded over nearly 500 private wells and 13 connections
- ▶ Installed 3,231 Emergency potable tank water systems, including water hauling services
- ▶ Bottled Water delivery services for over 4,500 households
- ▶ Tested around 600 private wells for contamination
 - ▶ Installed over 175 filtration devices

Existing Regional Programs

All Programs Funded by SWRCB -DFA

Emergency/Interim Access

- Emergency Tank & Hauled Water
 - NSF Certified Potable water tanks, solar pumps & systems
 - Potable water (hauling & delivery)
 - 50 gpd/per person hauled water
- Bottled Water Deliveries
 - 60 gpm per household

Well Assessment & Water Quality

- Well Quality
- Water Quality
- Well Depth
- Depth to Water
- Depth of Pump
- Identify well deficiencies or hazards educate family on avoiding hazards and deficiencies identified
- Sample water for primary contaminants & take to lab for analysis
- Review results, educate family on results & ongoing testing
- Install (if needed) appropriate filtration device

Well Repair, Replacement & Connections

- Provide funding to property owners whose PDW's have gone dry, for drilling a new well.
- Low-interest loans (1%-2%)
- Five-year recorded grant
- Contract is between the driller & property owner
- Identify if there is a possibility of connecting to an existing local water system

Contamination Testing

Test Method	Contaminants			
Bacterial				
SM 9221 B,C B,E	Total Coliform	E. Coli		
Primary Contaminants				
EPA 200.7/200.8	Arsenic	Total Chromium	Copper	
EPA 504.1	DBCP	EDB		
EPA 300.0	Nitrates			
EPA 314	Perchlorate			
EPA SM 524M-TCP	TCP			
EPA 200.8 by metals 908.0 by radio	Uranium			

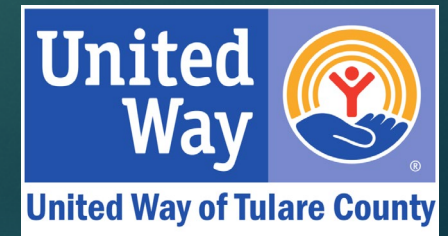
Major Concerns

- ▶ Demand for Affordable Housing – Governor Newsom plan to build 3.5 million new homes by 2030
 - ▶ CA lacks in existing infrastructure needed to provide water to rural communities and small water systems.
 - ▶ 3.5 million new homes in 5 years
 - ▶ Battle for funds to create infrastructure vs affordable housing
- ▶ Homelessness – Over 160,000 Homeless in CA in 2020
 - ▶ Bathing & Using canals/rivers & other waterways for personal hygiene
 - ▶ Increased risk of illnesses
 - ▶ Impacts Water Supply

Major Concerns cont.

- ▶ Economic Impacts
 - ▶ Dry well equals zero value for homes owners
 - ▶ Transient Society
- ▶ Middle to Low Income Families abandoning their homes
 - ▶ Overcrowding - 2-3 families living in one home
 - ▶ Overcrowding – Increased Domestic Violence Reports (86% increase in one year)
 - ▶ Increased Trauma Related PTSD

How Do We Do ALL of This????



HOW TO FIND US

- ▶ www.selfhelpenterprises.org/programs/emergency-services/
- ▶ Facebook - <https://www.facebook.com/selfhelpenterprises>
- ▶ LinkedIn - <https://www.linkedin.com/company/self-help-enterprises/>
- ▶ Emergency Lines
 - ▶ Tanks & Hauled Water (559)802-1685 or droughtsupport@selfhelpenterprises.org
 - ▶ Bottled Water – (559) 802-1284
 - ▶ Water Quality – (559) 802-1285
waterquality@selfhelpenterprises.org

QUESTIONS???