

Cal-WATCH



Between March and November of 2021, Big Valley Rancheria sampled from private drinking water intakes and wells within 50 feet of the Clear Lake

Clear Lake Private Water System Testing Year One Results

shoreline. Of 493 eligible addresses, the Cal-WATCH project was able to sample from 52 homes. Results of our sampling are summarized below.

Coliform Bacteria

52 homes tested

40%



Total Coliform present

FOR MORE INFORMATION:

Email:

info@trackingcalifornia.org

Website:

<u>Cal-watch.org</u>

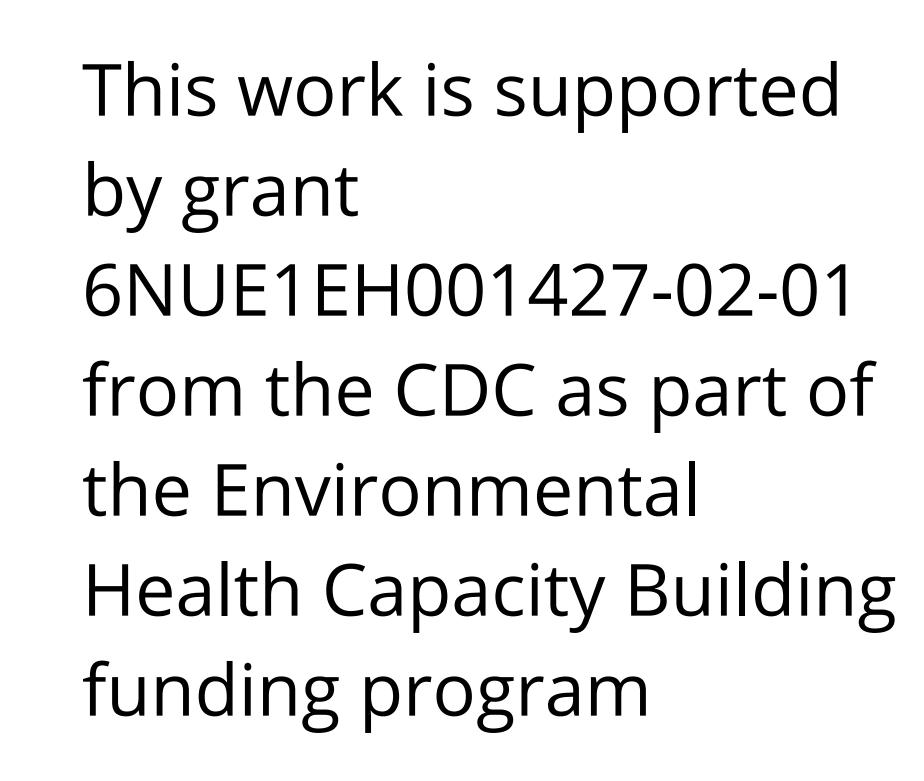


of systems with Total Coliform present were intakes



of systems (3 homes) had E. Coli present

Fluridone



10 homes tested



of systems (1 home) contained detectable fluridone

Nitrates

52 homes tested



of systems contained detectable nitrate levels



of systems with nitrates

were wells



of systems tested below the EPA's regulatory limit for nitrates (10 mg/L)







of systems with detectable cyanotoxins were intakes



of intakes contained cyanotoxins over EPA's health advisory level (0.3 ug/L)*



of systems contained saxitoxin (5 tested) cylindrospermopsin (5 tested), or anatoxin (1 tested)

average microcystin concentration for systems with toxins above EPA advisory levels



*36 homes were tested twice for cyanotoxins, the highest toxin levels measured were used for this analysis

	BACTERIA AND NITRATES	
TREAMENT	TOTAL TESTED #	COLIFO DETEC
INTAKES	34	50%
AND FILTER	24	54%
CHLORINE, FILTER AND U.V.		0%
CHLORINE, PILTER OZONE		0%
FILTER	4	75%
FILTER AND U.V.	ω	33%
WELLS	18	22%
AND FILTER	σ	0%
FILTER AND U.V.	F7	0%
FILTER, U.V., AND OZONE	F>	0%
FILTER	4	50%
NONE	σ	33%
* please note that scheduling issues.	nat some households es.	ds particip

) RM % E COLI DETECT 17% 0% 0% 0% 0% 6% 0% 0% 0% 8% 6% 0% の

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、 NITRATES DETECT 100% 100% 100% 56% 25% 17% 0% 0% 0% 0% 0% 0% % HOUSEHOLDS TESTED # HERBICIDES \mathbf{O} \bigcirc 0 σ 0 \mathbf{O} 0 \mathbb{N} σ ω С \bigcirc

pated in multiple toxin sampling rounds and t

\sim		MICROCYSTIN			
\mathbf{O}	HERBICIDE %	TOTAL TESTED #	% CYANOBACTERIA PRESENT	% Microcystin DETECT	% >0.3 ug/L
	17%	ß	71%	64.2%	45.3%
	17%	21	65%	58.3%	41.7%
	0%		100%	100.0%	3 3 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8
	0%			50.0%	50.0%
	0%	4	60%	71.4%	57.1%
	0%	æ	100%	80.0%	60.0%
	0%	15	20%	0.0%	0.0%
	0%	6	20%	0.0%	0.0%
	0%	1	100%	0.0%	0.0%
	0%		0%	0.0%	0.0%
	0%		0%	0.0%	0.0%
	0%	δ	13%	0.0%	0.0%
th	nat microscopy	was not performed	d on many of the first	set of sampl	es due to