Well Water Contaminants in Lee County

Contaminant Drinking Water Standard	Private Well Water Test Results					
	Total wells tested	Number of wells tested above standard	Percentage (%) of wells tested above standard	Minimum	Maximum	Average
Maximum Contaminant Level (MCL)				·		
10	278	10	3.6%	0.71	29	3.47
2000	184	1	0.54%	7	2100	140.94
4	63	0	0%	0.71	1.41	1.17
5	195	0	0%	0.71	3.54	0.75
100	184	0	0%	0.71	30	5.25
1300	184	0	0%	3.54	750	36.7
15	278	7	2.52%	0.71	48	4.04
2	152	0	0%	0.35	0.35	0.35
10000	83	0	0%	707.11	5200	958.02
1000	83	0	0%	70.71	490	75.76
50	184	0	0%	3.54	12	4.45
30	0	-	-	-	-	-
NC 2L Groundwater						
700	184	3	1.63%	7	2100	140.94
700	63	0	0%	3.54	70.71	51.8
2	195	3	1.54%	0.71	3.54	0.75
10	184	2	1.09%	0.71	30	5.25
1	63	11	17.46%	0.35	3.3	0.83
100	63	0	0%	0.71	7.07	4.97
1000	184	1	0.54%	35.36	1770	97.47
Health Advisory						
2500 (DEQ)	184	73	39.67%	70.71	7500	715.82
300 (EPA)	278	118	42.45%	0.71	1300	94.93
20000 (EPA)	183	182	99.45%	707.11	790000	32678.07
State Health Goal						
0.07	65	30	46.15%	0.04	3.92	0.25
0.2	63	0	0%	0.07	0.07	0.07
0.3	63	58	92.06%	0.14	37.1	4.42
	Maximum Contaminant Level (MCL) 10 2000 4 5 100 1300 15 2 10000 15 2 10000 50 30 NC 2L Groundwater 700 2 100 2 100 100 2000 200 2000 2000 20000 (EPA) 20000 (EPA) 0.07 0.2	Image Image Maximum Contaminant Level (MCL) 278 10 278 2000 184 4 63 5 195 100 184 1300 184 1300 184 1300 184 15 278 2 152 10000 83 1000 83 50 184 30 0 NC 2L Groundwater 1 700 63 2 195 10 184 700 63 2 195 10 184 1 63 1000 184 1 63 1000 184 1000 184 1000 184 1000 184 1000 184 1000 184 300 (EPA) 278 <	Drinking Water Standard Total wells tested Number of wells tested above standard Maximum Contaminant Level (MCL) 10 278 10 10 278 10 2000 184 1 4 63 0 5 195 0 100 184 0 1300 184 0 1300 184 0 1300 184 0 15 278 7 2 152 0 1000 83 0 1000 83 0 30 0 - 700 184 0 30 0 - 700 184 3 700 63 0 1 63 11 100 184 2 1 63 0 100 184 1 100 184 1 <tr t=""> <</tr>	Drinking Water Standard Total wells tested Number of wells tested above standard Percentage (%) of wells tested above standard Maximum Contaminant Level (MCL) 278 10 3.6% 2000 184 1 0.54% 4 63 0 0% 5 195 0 0% 100 184 0 0% 100 184 0 0% 100 184 0 0% 1300 184 0 0% 15 278 7 2.52% 2 152 0 0% 1000 83 0 0% 1000 83 0 0% 30 0 - - 700 184 3 1.63% 700 63 0 0% 10 184 2 1.09% 1 63 11 17.46% 1000 184 1 0.54%	Drinking Water Standard Total wells tested Number of wells tested above standard Percentage (%) of wells tested above standard Maximum Contaminant Level (MC) 278 10 3.6% 0.71 10 278 10 3.6% 0.71 2000 184 1 0.54% 7 4 63 0 0% 0.71 5 195 0 0% 0.71 100 184 0 0% 0.71 1300 184 0 0% 0.71 1300 184 0 0% 0.71 100 184 0 0% 0.71 1000 83 0 0% 0.71 1000 83 0 0% 707 1000 83 0 0% 707 1000 184 3 1.63% 7 700 184 3 1.63% 7 100 63 0 0.71	Drinking Water Standard Total wells tested above standard Percentage (%) of wells tested above standard Minimum Maximum Maximum Contaminant Level (MCL) 3.6% 0.71 29 2000 184 1 0.54% 7 2100 4 63 0 0% 0.71 1.41 5 195 0 0% 0.71 3.54 100 184 0 0% 0.71 3.54 100 184 0 0% 0.71 30 1300 184 0 0% 0.71 30 152 0 0% 0.35 0.35 0.35 10000 83 0 0% 0.71 480 50 184 0 0% 7.71 490 50 184 0 0% 3.54 120 700 184 3 1.63% 7 2100 700 184 3 1.63% 7.71

Contaminant levels are measured in micrograms per liter (μ g/L), which is equal to parts per billion (ppb). Note: Copper and Lead standards are called "Action Levels". *The EPA also has a nuisance standard for aesthetic effects caused by these contaminants, however, this table uses the health-based standard.

Maximum Contaminant Level (MCL): The highest level of a contaminant that the US EPA allows in drinking water supplied by public utilities. An MCL takes into consideration the best available treatment technology and associated costs along with health risk. More information about MCL standards: <u>https://bit.ly/epa-MCL</u>.

NC 2L Groundwater: Set by NC DEQ as the highest level of a contaminant allowed in groundwater, which may be tolerated without creating a threat to human health or which would otherwise make the groundwater unsuitable for its intended best usage, such as a drinking water. Note: Barium, Cadmium, and Chromium have different standards under state and federal regulations; both are included in this table. More information about NC 2L Groundwater standards: https://bit.ly/nc2Lgw.

Health Advisory: In the absence of federal standards, the US EPA and state agencies can issue advisories to communicate the level of a contaminant in drinking water at which harmful health and/or aesthetic effects are not anticipated to occur over a specific period of time.

State Health Goal: In the absence of state and federal standards, level established by NC DHHS to communicate to private well users the risk associated with using their well water.

This publication was funded by a grant from the National Institute of Environmental Health Sciences (P42ES031007).

For more information visit:

https://sph.unc.edu/superfund-pages/for-communities/

Eaves LA, Keil AP, Rager JE, George A, Fry RC. Analysis of the novel NCWELL database highlights two decades of co-occurrence of toxic metals in North Carolina private well water: Public health and environmental justice implications. Sci Total Environ. 2022 Mar 15;812:151479. doi: 10.1016/j.scitotenv.2021.151479. Epub 2021 Nov 9. PMID: 34767890.

