Well Water Contaminants in Clay County

Contaminant Drinking Water Standard						
	Total wells tested	Number of wells tested above standard	Percentage (%) of wells tested above standard	Minimum	Maximum	Average
Maximum Contaminant Level (MCL)						
10	1575	1	0.06%	0.71	11	2.78
2000	802	0	0%	70.71	550	72.35
4	0	-	-	-	-	-
5	862	0	0%	0.71	3.54	0.73
100	802	0	0%	7.07	19	7.09
1300	802	1	0.12%	35.36	1360	53.81
15	1575	30	1.9%	3.54	216	4.46
2	369	0	0%	0.35	0.7	0.36
10000	177	1	0.56%	707.11	10000	889.97
1000	177	0	0%	70.71	70.71	70.71
50	802	0	0%	3.54	9	3.55
30	0	-	-	-	-	-
NC 2L Groundwater						
700	802	0	0%	70.71	550	72.35
700	0	-	-	-	-	-
2	862	6	0.7%	0.71	3.54	0.73
10	802	1	0.12%	7.07	19	7.09
1	0	-	-	-	-	-
100	0	-	-	-	-	-
1000	802	18	2.24%	35.36	10000	156.92
Health Advisory						
2500 (DEQ)	803	243	30.26%	70.71	87000	728.25
300 (EPA)	1575	439	27.87%	21.21	5850	84.08
20000 (EPA)	754	728	96.55%	707.11	85000	5990.09
State Health Goal						
0.07	0	-	-	-	_	-
0.2	0	-	-	-	-	-
0.3	0	-	-	-	-	-
	Maximum Contaminant Level (MCL) 10 2000 4 5 100 1300 15 2 10000 15 2 10000 50 30 NC 2L Groundwater 700 2 100 700 2 100 700 2 100 700 2 30 PA 2 100 100 100 1000 2 100 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	Maximum Contaminant Level (MCL) 10 1575 2000 802 4 0 5 862 100 802 1100 802 100 802 1300 802 15 1575 2 369 10000 177 1000 177 1000 177 1000 177 1000 177 1000 177 1000 177 1000 177 50 802 30 0 1000 177 50 802 30 0 100 802 10 802 10 802 10 802 100 802 100 802 100 802 100 802 100 802 100	Drinking Water Standard Total wells tested Number of wells tested above standard 10 1575 1 10 1575 1 2000 802 0 4 0 5 862 0 100 802 0 100 802 0 100 802 0 1300 802 1 100 802 0 1300 802 1 100 177 30 2 369 0 10000 177 0 10000 177 0 50 802 0 30 0 - 700 802 0 100 802 1 10 - - 100 802 1 100 802 1 100 802 1 100 802	Drinking Water Standard Total wells tested Number of wells tested above standard Percentage (%) of wells tested above standard Maximum Contaminant Level (MCL) 1 0.06% 10 1575 1 0.06% 2000 802 0 0% 4 0 - - 5 862 0 0% 100 802 1 0.12% 1300 802 1 0.12% 1300 802 1 0.12% 130 802 1 0.12% 130 802 0 0% 2 369 0 0% 1000 177 1 0.56% 1000 177 0 0% 30 0 - - 700 802 0 0 700 802 1 0.12% 10 802 1 0.12% 10 802 1 0.12%	tested above standard tested above standard Maximum Contaminant Level (MCL) 10 1575 1 0.06% 0.71 2000 802 0 0% 70.71 4 0 - - - 5 862 0 0% 70.71 100 802 0 0% 70.71 130 802 1 0.12% 35.36 15 1575 30 1.9% 35.34 2 369 0 0% 70.71 1000 177 1 0.56% 70.71 1000 177 1 0.56% 70.71 30 0 - - - 700 802 0 0% 70.71 10 802 0 - - 700 0 - - - 100 0 - - - 10	Drinking Water Standard Total wells tested above standard Percentage (%) of wells tested above standard Maximum Contaminant Level (MLL) Number of wells tested above standard Minimum Maximum 10 1575 1 0.06% 0.71 11 2000 802 0 0% 7.071 550 4 0 - - - - 5 862 0 0% 0.71 3536 100 802 0 0% 7.07 19 1300 802 1 0.12% 35.36 1360 15 1575 30 1.9% 3.54 100 10000 177 1 0.56% 707.1 10000 1000 177 0 0% 3.54 9 30 0 - - - - 10000 177 0 0% 3.54 9 10000 0 - - - -

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.

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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.

