Well Water Contaminants in Davie 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	493	0	0%	0.71	7.07	2.61
2000	218	0	0%	70.71	300	72.49
4	0	-	-	-	-	-
5	232	0	0%	0.71	0.71	0.71
100	218	0	0%	7.07	74	7.45
1300	218	0	0%	35.36	670	54.28
15	493	5	1.01%	3.54	2560	9.04
2	163	0	0%	0.35	0.8	0.36
10000	98	2	2.04%	707.11	13000	1443.8
1000	98	0	0%	70.71	110	71.11
50	218	0	0%	3.54	23	3.71
30	0	-	-	-	-	-
NC 2L Groundwater				•	•	
700	218	0	0%	70.71	300	72.49
700	0	-	-	-	-	-
2	232	0	0%	0.71	0.71	0.71
10	218	3	1.38%	7.07	74	7.45
1	0	-	-	-	-	-
100	0	-	-	-	-	-
1000	218	10	4.59%	35.36	14000	297.42
Health Advisory				•	•	
2500 (DEQ)	218	39	17.89%	70.71	14000	379.12
300 (EPA)	493	46	9.33%	21.21	3110	39.27
20000 (EPA)	203	203	100%	1400	110000	11500.49
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 1300 15 2 10000 1000 1000 1000 1000 1000 1000 1000 1000 2 100 100 10 10 10 2 300 (EPA) 20000 (EPA) 20000 (EPA) 0.07 0.2	Maximum Contaminant Level (MCL) 10 493 2000 218 2000 218 4 0 5 232 100 218 1300 218 1300 218 1300 218 1000 98 2 163 10000 98 10000 98 10000 98 1000 98 1000 98 1000 0 1000 218 30 0 NC 2L Groundwater 2 700 218 700 0 2 232 10 218 100 0 100 0 1000 218 Health Advisory 218 300 (EPA) 203 State Health Goal 203 0.07 0 0.2 0 <	Drinking Water Standard Total wells tested Number of wells tested above standard Maximum Contaminant Level (MCL) - 10 493 0 2000 218 0 4 0 - 5 232 0 100 218 0 5 232 0 100 218 0 1100 218 0 1300 218 0 11300 218 0 11300 218 0 10000 98 2 10000 98 0 10000 98 0 30 0 - 700 218 0 700 0 - 100 218 3 100 218 3 100 - - 100 218 39 300 (EPA) 203 203 20000 (EPA)	Drinking Water Standard Total wells tested Number of wells tested above standard Percentage (%) of wells tested above standard 10 493 0 0% 2000 218 0 0% 4 0 - - 5 232 0 0% 100 218 0 0% 100 218 0 0% 100 218 0 0% 100 218 0 0% 100 218 0 0% 1300 218 0 0% 1 493 5 1.01% 2 163 0 0% 10000 98 2 2.04% 1000 0 - - 700 218 0 0% 700 218 3 1.38% 1 0 - - 100 218 10 4.59% 100	Drinking Water Standard Total wells tested Number of wells tested above standard Percentage (%) of wells tested above standard Maximum Contaminant Level (MCL) - - 10 493 0 0% 0.71 2000 218 0 0% 70.71 4 0 - - - 5 232 0 0% 70.71 100 218 0 0% 70.71 1300 218 0 0% 35.36 115 493 5 1.01% 35.4 2 163 0 0% 70.71 1000 98 2 2.04% 70.71 1000 98 0 0% 70.71 1000 98 0 0% 70.71 1000 98 0 0% 70.71 100 218 0 0% 70.71 100 0 - - -	Drinking Water Standard Total wells tested above standard Percentage (%) of wells tested above standard Maimum Maximum Maximum Contaminant Level (MCL) - </td

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.

