



Wake County

Contaminant	Number of wells tested	Minimum	Maximum	Average	<u>Maximum Contaminant Level (MCL)</u> * Secondary MCL	Units	Number of wells tested above MCL	Percentage of wells tested above MCL	Number of wells below MCL	Percentage of wells tested below MCL
1,2-Dibromoethane	106	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	108	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	2,591	0.5	237	1.6	10	µg/L	16	0.62%		
Barium	1,586	50	50	50	2,000	µg/L	0	0.00%		
Benzene	112	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	1,593	0.5	51	1.6	5	µg/L	3	0.19%		
Chromium	1,592	0.5	244	5.4	100	µg/L	2	0.13%		
cis-1,2-Dichloroethene (c-DCE)	297	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	2,576	25	94,060.00	184.90	1,300*	µg/L	49	1.90%		
Ethylbenzene	112	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	10,590	100	12,570.00	291.40	4,000*	µg/L	12	0.11%		
Iron	2,560	25	197,000.00	743.30	300*	µg/L	612	23.91%		
Isopropyl Ether	108	0.25	0.5	0.25	No drinking water standard	µg/L				
Lead	3,188	0.5	2,211.00	7.80	15	µg/L	172	5.40%		
Magnesium	2,569	6,700	79,800.00	8,709.10	No drinking water standard	µg/L				
Manganese	2,570	15	25,710.00	87.90	50*	µg/L	583	22.68%		

Contaminant	Number of wells tested	Minimum	Maximum	Average	Maximum Contaminant Level (MCL) * Secondary MCL	Units	Number of wells tested above MCL	Percentage of wells tested above MCL	Number of wells below MCL	Percentage of wells tested below MCL
Mercury	2,014	0.3	931	0.70	2	µg/L	1	0.05%		
Methyl tertiary butyl ether (MTBE)	349	0.25	15.6	0.63	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	41	500	57,960.00	4,504.90	10,000	µg/L	0	0.00%		
Nitrite	23	50	50	50	1,000	µg/L	0	0.00%		
pH	2,578	2.1	10.5	7.0	6.5-8.5*	standard units	21	0.81%	553	21.45%
Selenium	1,595	2.5	250	2.8	50	µg/L	3	0.19%		
Silver	1,584	25	25	25	100*	µg/L	0	0.00%		
Sodium	289	1,000	410,000.00	11,129.80	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	267	0.25	39	0.42	5	µg/L	1	0.37%		
Toluene	106	0.25	0.25	0.25	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	297	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	297	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	297	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	110	0.25	11.5	0.46	10,000	µg/L	0	0.00%		
Zinc	2,565	15	121,960.00	492.30	5,000*	µg/L	35	1.37%		

* **Secondary MCL:** Secondary contaminants may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.⁸ The **Secondary Maximum Contaminant Level (SMCL)** is a non-enforceable standard for secondary contaminants in drinking water. SMCLs may be based upon a contaminant's likelihood to cause changes to the taste, odor, or color of drinking water, or, may be based on the likelihood of the contaminant to cause technical changes such as damage to water fixtures or an increased availability of other contaminants in drinking water.⁸

Tracking and Analyzing Contaminants (TrAC) in Private Well Water in NC
UNC Superfund Research Program- Research Translation Core
Funded by an ARRA supplement from NIEHS (P42-ES005948) 2009-2011

