



Richmond 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	188	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	188	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	285	0.5	40	1.8	10	µg/L	1	0.35%		
Barium	115	50	50	50	2,000	µg/L	0	0.00%		
Benzene	188	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	115	0.5	11	0.6	5	µg/L	2	1.74%		
Chromium	115	5	60	5.6	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	340	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	285	25	3,190.00	86.20	1,300*	µg/L	2	0.70%		
Ethylbenzene	206	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	1,020	100	1,740.00	750.30	4,000*	µg/L	0	0.00%		
Iron	283	25	12,350.00	483.10	300*	µg/L	68	24.03%		
Isopropyl Ether	188	0.25	0.25	0.25	No drinking water standard	µg/L				
Lead	355	2.5	1,500.00	24.20	15	µg/L	58	16.34%		
Magnesium	285	4,000	372,400.00	14,396.10	No drinking water standard	µg/L				
Manganese	285	15	2,260.00	83.50	50*	µg/L	65	22.81%		

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	108	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	436	0.25	0.25	0.25	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	1,397	500	189,070.00	3,397.80	10,000	µg/L	0	0.00%		
Nitrite	1,409	50	50	50	1,000	µg/L	0	0.00%		
pH	284	3.4	12.1	6.00	6.5-8.5*	standard units	8	2.82%	165	58.10%
Selenium	115	2.5	2.5	2.5	50	µg/L	0	0.00%		
Silver	115	25	25	25	100*	µg/L	0	0.00%		
Sodium	104	1,000	85,000.00	11,238.50	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	240	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	190	0.25	0.25	0.25	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	340	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	354	0.25	44.3	0.51	5	µg/L	2	0.57%		
Vinyl chloride	340	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	188	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	283	25	1,670.00	97.00	5,000*	µg/L	0	0.00%		

* **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

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