



Union County

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
1,2-Dibromoethane	16	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	16	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	3,478	.5	303	8.6	10	µg/L	685	19.70%		
Barium	902	50	50	50	2,000	µg/L	0	0.00%		
Benzene	16	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	907	0.5	5	0.7	5	µg/L	0	0.00%		
Chromium	902	0.5	119	5.3	100	µg/L	1	0.11%		
cis-1,2-Dichloroethene (c-DCE)	30	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	3,466	25	16,330.00	79.40	1,300*	µg/L	27	0.78%		
Ethylbenzene	18	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	4,116	100	4,100.00	234.20	4,000*	µg/L	1	0.02%		
Iron	3,457	25	52,900.00	456.60	300*	µg/L	642	18.57%		
Isopropyl Ether	16	0.25	0.25	0.25	No drinking water standard	µg/L	0			
Lead	3,482	2.5	1,740.00	4.00	15	µg/L	72	2.07%		
Magnesium	3,467	5,500	59,900.00	7,316.90	No drinking water standard	µg/L	0			
Manganese	3,466	15	6,730.00	140.80	50*	µg/L	959	27.67%		

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	853	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	36	0.25	1.5	0.32	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	852	500	40,790.00	1,728.40	10,000	µg/L	0	0.00%		
Nitrite	870	50	50	50	1,000	µg/L	0	0.00%		
pH	3,463	4.9	10.9	7.4	6.5-8.5*	standard units	14	0.40%	198	5.72%
Selenium	901	2.5	54	3	50	µg/L	1	0.11%		
Silver	901	25	25	25	100*	µg/L	0	0.00%		
Sodium	524	500	692,000.00	17,265.30	No drinking water standard	µg/L	0			
Tetrachloroethylene (PCE)	28	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	16	0.25	0.25	0.25	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	30	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	30	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	30	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	20	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	3,455	25	13,740.00	131.90	5,000*	µg/L	11	0.32%		

* **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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