



Yancey 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	2	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	2	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	645	0.5	7	1.3	10	µg/L	0	0.00%		
Barium	189	200	93,000.00	1,607.60	2,000	µg/L	6	3.18%		
Benzene	2	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	195	0.5	20	0.6	5	µg/L	1	0.51%		
Chromium	195	0.5	110	5.9	100	µg/L	1	0.51%		
cis-1,2-Dichloroethene (c-DCE)	9	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	644	25	12,840.00	145.20	1,300*	µg/L	14	2.17%		
Ethylbenzene	4	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	659	100	4,290.00	197.40	4,000*	µg/L	2	0.30%		
Iron	636	25	30,840.00	460.90	300*	µg/L	158	24.84%		
Isopropyl Ether	2	0.25	0.25	0.25	No drinking water standard	µg/L				
Lead	646	2.5	90.5	3.9	15	µg/L	20	3.10%		
Magnesium	635	9,300	98,200.00	10,969.80	No drinking water standard	µg/L				
Manganese	644	15	2,280.00	32.70	50*	µg/L	50	7.76%		

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	166	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	11	0.25	0.25	0.25	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	169	500	10,060.00	1,149.80	10,000	µg/L	0	0.00%		
Nitrite	107	200	29,440.00	995.10	1,000	µg/L	10	9.35%		
pH	645	4.7	10.8	6.96	6.5-8.5*	standard units	11	1.71%	124	19.22%
Selenium	195	2.5	18	2.6	50	µg/L	0	0.00%		
Silver	195	25	25	25	100*	µg/L	0	0.00%		
Sodium	149	1,000	380,000.00	15,875.40	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	9	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	4	0.25	159	79.63	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	9	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	9	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	9	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	4	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	636	25	6,200.00	96.10	5,000*	µg/L	1	0.16%		

* **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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