



Surry 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	Not Tested	0	0	0	0.05	µg/L	0	Not Tested		
1,2-Dichloropropane	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Arsenic	834	0.5	7	1.5	10	µg/L	0	0.00%		
Barium	229	50	50	50	2,000	µg/L	0	0.00%		
Benzene	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Cadmium	229	0.5	2	0.5	5	µg/L	0	0.00%		
Chromium	229	5	20	5.1	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	2	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	834	25	2,770.00	58.60	1,300*	µg/L	2	0.24%		
Ethylbenzene	Not Tested	0	0	0	700	µg/L	0	Not Tested		
Fluoride	2,050	100	2,010.00	582.60	4,000*	µg/L	0	0.00%		
Iron	819	10	37,040.00	681.80	300*	µg/L	223	27.23%		
Isopropyl Ether	Not Tested	0	0	0	No drinking water standard	µg/L				
Lead	850	2.5	263	5.1	15	µg/L	38	4.47%		
Magnesium	834	5,000	5,300.00	5,157.90	No drinking water standard	µg/L				
Manganese	834	15	1,900.00	54.40	50*	µg/L	222	26.62%		

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	197	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	2	0.25	0.25	0.25	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	247	500	8,220.00	945.00	10,000	µg/L	0	0.00%		
Nitrite	249	50	50	50	1,000	µg/L	0	0.00%		
pH	838	4.6	10	6.9	6.5-8.5*	standard units	2	0.24%	222	26.49%
Selenium	229	2.5	2.5	2.5	50	µg/L	0	0.00%		
Silver	229	25	25	25	100*	µg/L	0	0.00%		
Sodium	206	1,400	218,000.00	15,595.40	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	2	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	Not Tested	0	0	0	1,000	µg/L	0	Not Tested		
trans-1,2-Dichloroethene (t-DCE)	2	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	2	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	2	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	Not Tested	0	0	0	10,000	µg/L	0	Not Tested		
Zinc	818	25	13,020.00	175.40	5,000*	µg/L	5	0.61%		

* **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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