



# 2021 RICHMOND COUNTY ANNUAL DRINKING WATER REPORT



## Mission Statement

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is a snapshot of last year's water quality. Included are details about your source(s) of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and to providing you with this information because informed customers are our best allies.

Richmond County  
Water System  
P.O. Box 504  
Rockingham, NC  
28379

To report problems  
with your water  
please call 910-997-  
8338

Water System Number: NC03-77-109

# Richmond County Water System

P.O. Box 504 ROCKINGHAM 28380

910-997-8339



available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and homes plumbing. Richmond County Water System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your tested. Information on lead in drinking water Testing methods, and

urban storm water runoff, and residential uses; organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems; and radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

## When You Turn on Your Tap, Consider the Source

Richmond County uses surface water from Blewett Falls Lake or Pee Dee River. We also purchase water from Anson County, which also uses water from the same source.

## Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower.

The relative susceptibility rating of each source for Richmond County Water System was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing

## What EPA Wants You to Know

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population.

Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are

steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>."

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture,

conditions of the well or watershed and its delineated assessment area.). The assessment findings are summarized in the table below:

**Susceptibility of Sources to Potential Contaminant Sources (PCSs)**

Source Name	Susceptibility Rating
Pee Dee River	Moderate

The complete SWAP Assessment report for Richmond County Water System may be viewed on the Web at: <http://www.deh.enr.state.nc.us/pws/swap> To obtain a printed copy of this report, please mail a written request to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh NC 27699-1634, or email request to [swap@ncmail.net](mailto:swap@ncmail.net). Please indicate your system name, PWSID, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-715-2633.

It is important to understand that a susceptibility rating of “higher” does not imply poor water quality, only the systems’ potential to become contaminated by PCS’s in the assessment area.

**What If I Have Any Questions Or Would Like to Become More Involved?**

If you have any questions about this report or concerning water treatment, please contact WTP Superintendent Lee P. Butler at 997-8339 between the hours of 7am and 3pm Monday-Friday. Any general or overall Water Department questions should be directed to Director of Public Works, Jerry Austin at 997-8338. Specific water maintenance questions should be directed to Water Maintenance Supervisor Tim Tetreault at 334-2761. If you have any water billing questions, you should call the Water Administration personnel at 997-8202. General information is also available on Richmond County’s web site <http://www.richmondnc.com>

**Water Quality Data Table of Detected Contaminants**

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The table below lists all the drinking water contaminants that we detected in the last round of sampling for the particular

contaminant group. The presence of contaminants does not necessarily indicate that water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2016. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

**Important Drinking Water Definitions:**

- Not-Applicable (N/A) – Information not applicable/not required for that particular water system or for that particular Rule.
- Non-Detects (ND) - laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.
- Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.
- Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.
- Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- Action Level (AL) -the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

- Maximum Residual Disinfection Level Goal – The “Level” (MRDLG) of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Maximum Residual Disinfection Level – The “Highest Level” (MRDL) of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Contaminant Level - The “Maximum Allowed” (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology
- Maximum Contaminant Level Goal - The “Goal” (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Extra Note: MCL’s are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a million chance of having the described health effect.



**Water Assessment**

Water is checked regularly throughout the water system including visual, sampling and lab analysis.

# INORGANIC CONTAMINANTS

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	MCLG	MCL	Likely Source of Contamination
Antimony (ppb)	3/21	N	ND	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	3/21	N	ND	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	3/21	N	.0188	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)	3/21	N	ND	4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	3/21	N	ND	5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)	3/21	N	ND	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide (ppb)	3/21	N	ND	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	3/21	N	.061	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic) (ppb)	3/21	N	ND	2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium (ppb)	3/21	N	ND	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	3/21	N	ND	0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

## VIOLATIONS THAT YOUR WATER SYSTEM RECEIVED FOR THE REPORT YEAR

Richmond County had no violations for 2021.



25 SAMPLES ARE COLLECTED THROUGHOUT THE SYSTEM EACH MONTH AT SELECTED AND DESIGNATED SAMPLE POINTS AND ARE REPORTED TO THE STATE MONTHLY WITH ALL OPERATIONAL REPORTS.

## MICROBIOLOGICAL CONTAMINANTS

Contaminant (units)	MCL Violation Y/N	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria (presence or absence)	N	0	one monthly positive	Naturally present in the environment
Fecal Coliform or E. coli (presence or absence)	N	0	a routine sample and repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive	Human and animal fecal waste

## TOTAL ORGANIC CARBON (TOC)

Contaminant (units)	TT Violation Y/N	Your Water (RAA Removal Ratio)	Range Monthly Removal Ratio Low - High	MCLG	TT	Likely Source of Contamination	Compliance Method (Step 1 or ACC#_)
Total Organic Carbon (removal ratio) TREATED	N	59	48-100	N/A	TT	Naturally present in the environment	Step 1

Note: Depending on the TOC in our source water the system MUST have a certain % removal of TOC or must achieve alternative compliance criteria. If we do not achieve that % removal there is an "alternative % removal". If we fail to meet that, we are in violation of a Treatment Technique.

## DISINFECTION BY-PRODUCT PRECURSORS CONTAMINANTS

Contaminant (units)	Sample Year	MCL/TT Violation Y/N	Your Water	Range Low /High	MCLG	MCL	Likely Source of Contamination
Total Organic Carbon (ppm) TREATED Richmond	2021	N	1.2	0 - 1.8	N/A	TT	Naturally present in the environment
Total Organic Carbon (ppm) TREATED Anson	2021	N	1.4	1.1 - 1.7	N/A	TT	Naturally present in the environment

## TURBIDITY- SYSTEMS WITH POPULATION >10,000

Contaminant (units)	Richmond County	MCL Violation Y/N	Anson County	MCL Violation Y/N	MCL	Likely Source of Contamination
Turbidity (NTU) - Highest single measurement	.12	N	.27	N	TT = 1 NTU	Soil Runoff
Turbidity (Lowest monthly percent of samples meeting limit)	100%	N	95%	N	TT = percentage of samples <0.3 NTU	Soil Runoff



## NITRATE/NITRITE CONTAMINANTS

Contaminant (units)	Richmond County	MCL	Likely Source of Contamination
Nitrate (as Nitrogen) (ppm)	.89	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

## UNREGULATED INORGANICS CONTAMINANT

Contaminant (units)	Sample Year	Richmond County	Anson County	SMCL	Likely Source of Contamination
Sulfate (ppm)	2021	34.4	18.1	250	Leaching from natural deposits; Industrial wastes

## NITRATE/NITRITE CONTAMINANTS

Contaminant (units)	MCL Violation	Richmond County	Anson County	MCLG	MCL	Likely Source of Contamination
Nitrate (as Nitrogen) (ppm)	N	.89	NA	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

## LEAD AND COPPER CONTAMINANTS

Contaminant (units)	Sample Date	Richmond County	Anson County	# of sites above AL	MCLG	MCL	Likely Source of Contamination
Copper (ppm) (90th percentile)	2021	.237	.007	0	1.0	AL=1.0	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppm) (90th percentile)	2021	.005	.0003	0	0	AL=.0010	Corrosion of household plumbing systems; erosion of natural deposits

## INORGANICS CONTAMINANTS

Contaminant (units)	Sample Date	MCL Violation	Richmond County	Anson County	Range Low/High	MCLG	MCL	Likely Source of Contamination
Fluoride (ppm)	2021	N	.805	.691	.457 - 1.29	4	4	Erosion; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories



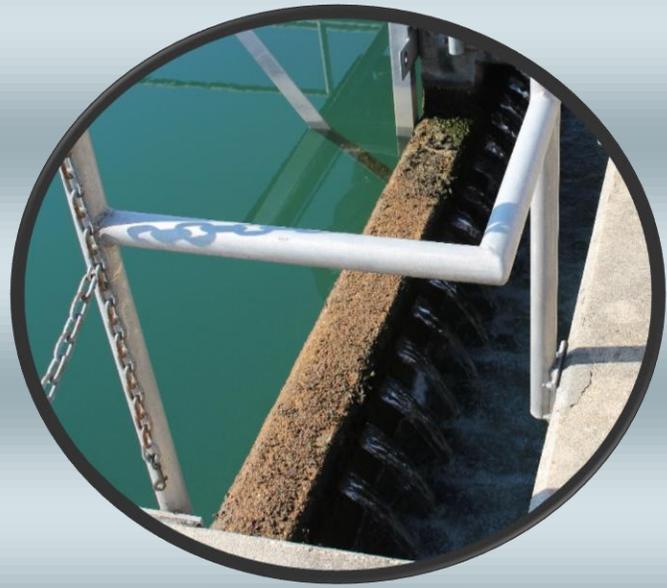
*Secondary Contaminants, required by the NC Public Water Supply Section, are substances that affect the taste, odor, and/or color of drinking water. These aesthetic contaminants normally do not have any health effects and normally do not affect the safety of your water.*

## OTHER MISCELLANEOUS WATER CHARACTERISTICS CONTAMINANTS

Contaminant (units)	Sample Year	Richmond County	Anson County	Range Low/ High	Secondary MCL	Typical Source
Iron (ppb)	2021	Not detected	20.83	N/A	300	Leaching from natural deposits; Industrial wastes
Manganese (ppb)	2021	9	20.40	N/A	50	Leaching from natural deposits
Nickel (ppm)	2021	Not Detected	N/A	N/A	N/A	N/A
Sodium (ppm)	2021	6.888	13.4	N/A	N/A	N/A
pH	2021	6.2	7.49	N/A	6.5 to 8.5	Naturally occurring

*For TTHM: Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.*

*For HAA5: Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.*



### DISINFECTION BY-PRODUCT CONTAMINANTS: ANSON COUNTY

Contaminant (units)	MCL/MRDL Violation Y/N	Anson Water (High Avg)	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb) [Total Trihalomethanes]	N	66	23 - 66	N/A	80	By-product of drinking water chlorination
HAA5 (ppb) [Total Haloacetic Acids]	N	49	24 - 49	N/A	60	By-product of drinking water disinfection
Chlorine (ppm)	N	1.23	.7 - 1.8	MRDLG = 4	MRDL = 4	Water additive used to control microbes
Chloramines (ppm)	N	2.39	1.06 - 3.93	4	4	Water additive used to control microbes

# DISINFECTION BY-PRODUCT LOCATIONAL RUNNING ANNUAL AVERAGE

Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Local Running Annual Average	Range		MCLG	MCL	Likely Source of Contamination
				Low	High			
TTHM (ppb) County Home Road	2021	N	52	31	91	N/A	80	Byproduct of drinking water disinfection
TTHM (ppb) Cordova	2021	N	44	25	86	N/A	80	Byproduct of drinking water disinfection
TTHM (ppb) Hoffman US <sub>1</sub>	2021	N	48	23	89	N/A	80	Byproduct of drinking water disinfection
TTHM (ppb) Sharon Church Road	2021	N	46	20	83	N/A	80	Byproduct of drinking water disinfection
Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Local Running Annual Average	Range		MCLG	MCL	Likely Source of Contamination
HAA <sub>5</sub> (ppb) County Home Road	2021	N	26	20	33	N/A	60	Byproduct of drinking water disinfection
HAA <sub>5</sub> (ppb) Cordova	2021	N	23	14	31	N/A	60	Byproduct of drinking water disinfection
HAA <sub>5</sub> (ppb) Hoffman US <sub>1</sub>	2021	N	21	15	29	N/A	60	Byproduct of drinking water disinfection
HAA <sub>5</sub> (ppb) Sharon Church Road	2021	N	18	10	26	N/A	60	Byproduct of drinking water disinfection

## FOR MORE INFORMATION, PLEASE CONTACT:

Responsible Person	System Name	System Address (street)
Lee P. Butler	Richmond County Water	P.O. Box 504
Phone Number	System PWSID#	System Address (city/ state/zip)
(910)997-8339	NC0377109	Rockingham, NC 28380

### Contaminant Group List

- (BA) Total Coliform Bacteria- includes Fecal/E.coli bacteria is required if total coliform is present in the sample.
- (AS) Asbestos- includes testing for Chrysotile, Amphibole and Total Asbestos.
- (TTHM)-Total Trihalomethanes- include Chloroform, Bromoform, Bromodichloromethane, and Chlorodibromomethane.
- (TOC)-Total Organic Carbon- includes testing for Alkalinity, Dissolved Organic Carbon (DOC), Total Organic Carbon(TOC) and Ultraviolet Absorption 254 (UV<sub>254</sub>). Source water samples must be tested for both TOC and Alkalinity. Treated water samples must be tested for TOC. Source water samples and treated water samples must be collected on the same day.
- (HAA5)-Haloacetic Acids- include Monochloroacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid, Monobromoacetic Acid, Dibromoacetic Acid.
- (BB) Bromate/Bromide- includes testing for Bromate and/or Bromide.
- (CD) Chlorine Dioxide/Chlorite- includes testing for Chlorine Dioxide and/or Chlorite.
- (IC) Inorganic chemicals- include Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cyanide, Fluoride, Iron, Manganese, Mercury, Nickel, pH, Selenium, Sodium, Sulfate, and Thallium.
- (LC) Lead and copper- includes testing samples for both lead and copper.
- (NT) Nitrate/ (NI) Nitrite- includes testing for nitrate and/or nitrite.
- (RA) Radionuclides- includes Gross Alpha, Radon, Uranium, Combined Radium, Radium 226, Radium 228, Gross Beta,

Here is the information for the 2021 CCR

If you have any questions call 704 848 4849

**Annual Water Quality Report - Reporting Year 2021**

**Regulated Substances**

**Anson County Water**

Substance (Unit of Measure)	Year Sampled	MCL [MRDL]	MCLG [MRDL G]	Amount Detected	Range Low-High	Violation	Typical Source
Chloramines (ppm)	2021	[4]	[4]	2.39	1.06-3.93	No	Water additive used to control microbes
Chlorine (ppm)	2021	[4]	[4]	1.23	0.7-1.80	No	Water additive used to control microbes
Fluoride (ppm)	2021	4	4	0.691	0.08-1.34	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Haloacetic Acids [HAA] (ppb)	2021	60	NA	49.00	24.0-49.0	No	By-product of drinking water disinfection
TTHMs [Total Trihalomethanes] (ppb)	2021	80	NA	66.00	23.0-66.0	No	By-product of drinking water disinfection
Total Organic Carbon [TOC] (removal ratio)	2021	TT	NA	1.40	1.1-1.7	No	Naturally present in the environment
Turbidity (NTU)	2021	TT = 1 NTU	NA	.27	.01-.27	No	Soil runoff
Turbidity (Lowest monthly percent of samples meeting limit)	2021	TT = 95% of samples meet the limit	NA	95	NA	No	Soil runoff

**Tap water samples were collected for lead and copper analyses from sample sites throughout the community**  
**Anson County Water**

Substance (Unit of Measure)	Year Sampled	AL	MCLG	Amount Detected (90th%tile)	Sites Above AL/Total Sites	Violation	Typical Source
Copper (ppm)	2021	1.3	1.3	0.007	0/30	No	Corrosion of household plumbing systems;
Lead (ppm)	2021	15	0	<0.0003	0/30	No	Erosion of natural deposit

**Secondary Substances  
Anson County Water**

Substance (Unit of Measure)	Year Sampled	SMCL	MCLG	Amount Detected	Range Low-High	Violation	Typical Source
Iron (ppb)	2021	300	NA	20.83	0 - 130	No	Leaching from natural deposits; Industrial wastes
Manganese (ppb)	2021	50	NA	20.40	1 - 302	No	Leaching from natural deposits
Sulfate (ppm)	2021	250	NA	18.1	18.1	No	Runoff/leaching from natural deposits; Industrial wastes
pH (Units)	2021	6.5-8.5	NA	7.49	6.9 - 9.3	No	Naturally occurring

**Unregulated Substances  
Anson County Water**

Substance (Unit of Measure)	Year Sampled	Amount Detected	Range Low-High	Typical Source
Bromodichloromethane (ppb)	2021	7.406	2.9-11	NA
Chloroform (ppb)	2021	35.42	19-66	NA
Sodium (ppm)	2021	13.4	13.4-13.4	NA



## Contaminant Group List

**(AS) Asbestos** - includes testing for Total Asbestos.

**(BA) Total Coliform Bacteria** – includes testing for Total Coliform bacteria and *E.coli* bacteria. Testing for *E.coli* bacteria is required if total coliform is present in the sample.

**(B) Bromate** – includes testing for Bromate.

**(CD) Chlorine Dioxide/Chlorite** – includes testing for Chlorine Dioxide and/or Chlorite.

**(DI) Disinfectant Residual** must be tested with the collection of each compliance bacteriological sample, at the same time and site. **Fecal Indicators** – includes *E.coli*, enterococci or coliphage.

**(HAA5)- Haloacetic Acids** - includes Monochloroacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid, Monobromoacetic Acid, Dibromoacetic Acid.

**(IOC) Inorganic chemicals** - includes Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cyanide, Fluoride, Iron, Manganese, Mercury, Nickel, pH, Selenium, Sodium, Sulfate, and Thallium.

**(LC) Lead and Copper** are tested by collecting the required number of samples and testing each of the samples for both lead and copper.

**(NT) Nitrate/ (NI) Nitrite** – includes testing for nitrate and/or nitrite.

**(RA) Radionuclides** – includes Gross Alpha, Radon, Uranium, Combined Radium, Radium 226, Radium 228, Potassium 40 (Total), Gross Beta, Tritium, Strontium 89, Strontium 90, Iodine 131, and Cesium 134.

**(SOC) – Synthetic Organic Chemicals/Pesticides** – includes 2,4-D, 2,4,5-TP (Silvex), Alachlor (Lasso), Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl)adipate, Di(2-ethylhexyl)phthalate, Dibromochloropropane (DBCP), Dinoseb, Endrin, Ethylene dibromide (EDB), Heptachlor, Heptachlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane (BHC-Gamma), Methoxychlor, Oxamyl (Vydate), PCBs, Pentachlorophenol, Picloram, Simazine, and Toxaphene.

**(TOC) - Total Organic Carbon** - includes testing for Alkalinity, Dissolved Organic Carbon (DOC), Total Organic Carbon (TOC) and Ultraviolet Absorption 254 (UV254). Source water samples must be tested for both TOC and Alkalinity. Treated water samples must be tested for TOC. Source water samples and treated water samples must be collected on the same day.

**(TTHM) - Total Trihalomethanes** - includes Chloroform, Bromoform, Bromodichloromethane, and Dibromochloromethane.

**(VOC) - Volatile Organic Chemicals** - includes 1,2,4-Trichlorobenzene, Cis-1,2-Dichloroethylene, Xylenes (Total), Dichloromethane, o-Dichlorobenzene, p-Dichlorobenzene, Vinyl Chloride, 1,1,-Dichloroethylene, Trans-1,2,-Dichloroethylene, 1,2-Dichloroethane, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloropropane, Trichloroethylene, 1,1,2-Trichloroethane, Tetrachloroethylene, Chlorobenzene, Benzene, Toluene, Ethylbenzene, and Styrene.

**(WQP) Water Quality Parameters** (for Lead and Copper Rule) - includes Calcium, Orthophosphate (as PO<sub>4</sub>), Silica, Conductivity, pH, Alkalinity and Water Temperature.

### Instructions for Completing the Notice/Certification Form & for Performing Public Notice for Tier 3 Monitoring Violations

- Complete **ALL** the missing information on the “Notice to the Public.” (Note: Under the section of the notice entitled “What is being done?” describe corrective actions you took, or are taking. You may choose the appropriate language below, or develop your own:
  - We have since taken the required samples, as described in the last column of the table above. The sample results showed we are meeting drinking water standards.
  - We have since taken the required samples, as described in the last column of the table above. The sample for [contaminant] exceeded the limit. [Describe corrective action; use information from public notice prepared for violating the limit.]
  - We plan to take the required samples soon, as described in the last column of the table above.

- Provide public notification to your customers as soon as reasonably possible after you learn of the violation as follows:

<p><b>Community systems</b> must use one of the following:</p> <ul style="list-style-type: none"> <li>• Hand or direct delivery</li> <li>• Mail, as a separate notice or included with the bill</li> </ul> <p><b>For community systems</b>, this notice is appropriate for insertion in an annual notice or the Consumer Confidence Report (CCR), as long as public notification timing and delivery requirements are met [CFR 141.204(d)].</p>	<p><b>Non-community systems</b> must use one of the following:</p> <ul style="list-style-type: none"> <li>• Posting in conspicuous locations</li> <li>• Hand delivery</li> <li>• Mail</li> </ul> <p><b>For non-community systems</b>, if you post the notice, it must remain posted as long as the violation or situation persists; in no case should the notice be posted less than 7 days, even if the violation is resolved. [CFR 141.204(b)].</p>
<p>(Note: <b>Both</b> community and non-community systems must use <i>another</i> method reasonably calculated to reach others <b>IF</b> they would not be reached by one of the <u>required</u> methods listed above [CFR 141.204(c)]. Such methods could include newspapers, e-mail, or delivery to community organizations.</p>	

- **Both sides of this public notice/certification MUST be delivered to the persons served by the water system** in order for your customers to have access to the required **Contaminant Group List**.
  - If you mail, post, or hand deliver, print your notice on letterhead, if available.
  - Notify new billing customers or units prior to or at the time their service begins.
  - Provide multi-lingual notifications if 30% of the residents served are non-English speaking.
  - Should you decide not to use this notice and develop your own version instead, the mandatory language in ***bold italics*** may not be altered, and you **MUST** include the ten required elements listed in CFR 141.205. The certification located at the bottom of this sample notice **MUST** also be submitted.
- After issuing the “Notice to the Public” to your customers, **sign and date** the “Public Notification Certification” at the bottom of the notice. **Within ten days** after issuing the notice [CFR 141.31(d)], use our on-line ECERT application located on our website at: <https://pws.ncwater.org/ECERT/pages/default.aspx> to submit your completed Notice/Certification to the Public Water Supply Section. If you do not have access to the internet, mail your completed Notice/Certification to: Public Water Supply Section, ATTN: Public Notification Rule Manager, 1634 Mail Service Center, Raleigh, NC 27699-1634.

Keep a copy for your files.

(06/2019)