

## **2019 Water Quality Report TOWN OF SPRINGFIELD System # 3810009**

We're pleased to provide you with this year's Water Quality Report. We want to keep you informed about the water and services we have delivered to you over the past year. Our goal is to provide to you a safe and dependable supply of drinking water. We are committed to ensuring the quality of your water. The source of our water is ground water produced by two active wells located in Springfield service area.

A Source Water Assessment Plan has been prepared for our system. For more information on this report, please contact SCDHEC at 803-898-3531. If you have any questions about this report or concerning your water utility, or if you do not have internet access, please contact Mayor Ed Furtick at Springfield Town Hall 803-258-3152. We want you, our neighbors and valued customers, to be informed about your water utility. Feel free to attend any of our regularly scheduled meetings on the first Monday of every month at 7:00 pm at Town Hall.

This report shows our water quality and what it means. The Town of Springfield routinely monitors for constituents in your drinking water according to Federal and State laws. As water travels over the land or underground, it can pick up substances or contaminants such as microbes and chemicals. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

The table below shows the results of our monitoring for the period of January 1st to December 31st, 2019. In this table you will find the following terms and abbreviations:

**Action Level (AL)** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**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.

**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. 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.

**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.

**Town of Springfield #3810009**

**REGULATED CONTAMINANTS**

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2019	RAA .79	.28 – 1.63	MRDLG 4	MRDL 4	ppm	N	Water additive used to control microbes.

**LEAD and COPPER TEST RESULTS**

Contaminant	Violation Y/N	90 <sup>th</sup> percentile	Unit Measurement	MCLG	Action Level	Sites over action level	Likely Source of Contamination
Copper 2015	N	0.396	ppm	1.3	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Cadmium	2016	0.130	0 - 0.130	5.0	5.0	Ppb	N	Corrosion of galvanized pipes. Erosion of natural deposits. Discharge from metal refineries; runoff from waste batteries
Nitrate (measured at Nitrogen)	2019	2.00	1.9 - 2.1	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks; sewage; Erosion of natural deposits
Fluoride	2019	.1	0 - .1	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories

Radioactive Contaminants (2019)	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Combined Radium 226/228 (2019)	N	.831 Range .831-.831	pCi/l	0	5	Erosion of natural deposits

Unregulated Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation (Y/N)	Likely Source of Contamination
Sodium	2019	15	11 – 15	N/A	N/A	ppm	N	Occurs naturally

**Violations Table – Lead and Copper Rule**

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

Violation Type	Violation Begin	Violation end	Violation Explanation
Follow-Up or Routine Tap M/R (LCR)	10/01/2019	2019	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the 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 at 1-800-426-4791.

**If you have special health needs--**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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 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 home plumbing. The Town of Springfield 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 drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.