

# Lead in Drinking Water – Public and Nonpublic Schools

## **IMPORTANT NOTICE: ELEVATED WATER SAMPLE RESULT(S)** **Chesapeake High School**

### **ELEVATED LEAD WATER SAMPLE RESULT(S)**

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations. On December 22, 2018, **one hundred thirty-nine (139)** lead water samples were collected from **Chesapeake High School**. Of these lead water samples, six (6) had levels of lead exceeding the action level of 20 parts per billion (ppb) for lead in drinking water in school buildings. The elevated lead result from the sample(s) collected at Chesapeake High were as follows:

Sample Number 000030-Kitchen Bathroom Hand Sink-Right: 36.4 ppb (non-consumable).

Sample Number 000038-Kitchen Sprayer: 26.8 ppb (consumable).

Sample Number 000096-Girls Bathroom (next to 103) Hand Sink-Right: 24.6 ppb (non-consumable).

Sample Number 000097-Boys Bathroom (next to 103) Hand Sink-Left: 36.8 ppb (non-consumable).

Sample Number 000098-Boys Bathroom (next to 103) Hand Sink-Center: 33.8 ppb (non-consumable).

Sample Number 000099-Boys Bathroom (next to 103) Hand Sink-Right: 37.8 ppb (non-consumable).

### **ACTION LEVEL (AL)**

The AL is 20 ppb for lead in drinking water in school buildings. The AL is the concentration of lead which, if exceeded, triggers required remediation.

### **HEALTH EFFECTS OF LEAD**

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

### **SOURCES OF HUMAN EXPOSURE TO LEAD**

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, and cosmetics, exposure in the work place and exposure from certain hobbies, brass faucets, fittings, and valves. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

## **IMMEDIATE ACTIONS TAKEN**

1. One (1) consumable kitchen sprayer will be shut off immediately and retested.
2. Five (5) non-consumable water sources consisting of hand sinks will be posted with signage indicating “Hand Washing Only” and retested.

## **NEXT STEPS**

1. One (1) consumable and five (5) non-consumable water sources will be replaced and retested in accordance with the regulations.

## **TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:**

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

*Please note that boiling the water will not reduce lead levels.*

## **ADDITIONAL INFORMATION**

1. For additional information, please contact Chris Williams, Environmental Issues Program Manager, at 410-360-0138. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at [www.epa.gov/lead](http://www.epa.gov/lead). If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.