



# Lead in Drinking Water – Public and Nonpublic Schools

Updated in response to legislation effective as of June 1, 2021

## **IMPORTANT NOTICE: ELEVATED LEAD WATER SAMPLE RESULT(S)** **Patterson Mill Middle/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 **February 12, 15, 17, and 18 and April 26 and 27, 2022, eighty-six** lead water samples were collected from **Patterson Mill Middle/High School**. Of these lead water samples, **seven** had levels of lead exceeding the State’s revised action level of 5 parts per billion (ppb) (*formerly 20 ppb; 5 ppb effective June 1, 2021*) for lead in drinking water in school buildings. The elevated lead results from the samples collected at **Patterson Mill Middle/High School** are as follows:

Room J116, across from café, center middle sink	41.2 ppb
Room J116, across from café, center sink	5.5 ppb
<b>Right drinking fountain across from Room E227</b>	<b>17.1 ppb</b>
Second level Health suite, G201, middle sink	8.5 ppb
<b>Right fountain across from girl's locker room</b>	<b>19.0 ppb</b>
Concession stand, left kitchen sink	8.0 ppb
Concession stand, right kitchen sink	6.8 ppb

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

Effective June 1, 2021, the State’s AL for lead in drinking water samples collected from outlets in school buildings has been lowered to 5 ppb. The AL is the concentration of lead which, if exceeded, triggers required remediation of drinking water outlets.

### **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 sources 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 workplace 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**

Access to the drinking fountains was restricted. Signs were posted at Health suite and concession stand sinks: "Run Water For 30 Seconds Before Use." Signs were posted at other sinks: "Handwash Only."

### **NEXT STEPS**

The drinking fountains will be replaced or removed. Fixtures on the sinks will be replaced.

### **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**

For additional information, please contact **Rich Hanzevack**, Harford County Public Schools Facilities Department at **410-638-4088**.

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.