

Lead in Drinking Water – Public and Nonpublic Schools

IMPORTANT NOTICE: ELEVATED WATER SAMPLE RESULT(S)

Greater Grace Christian Academy

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 5/14/2018, 34 lead water samples were collected from Greater Grace Christian Academy. We are only required to test the drinking water outlets but we opted to test all water outlets.

Drinking water outlets:

- 6 Drinking Fountains all test results came in at less than 1.0 parts per billion.
- 3 Kitchen Sinks all test results came in at less than 1.1 parts per billion.

Non consumption outlets:

- 25 Bathroom Hand Sinks

Of these lead water samples, 4 of the Bathroom sinks 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 results from the samples collected at GGCA were as follows:

26.5 parts per billion (ppb) High School Ladies restroom left hand sink.

24.8 parts per billion (ppb) Elementary 2nd grade restroom hand sink.

39.9 parts per billion (ppb) Elementary Music restroom hand sink.

154 parts per billion (ppb) Fellowship hall hand sink.

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

GGCA has taken the proactive measures to close the 4 hand sinks and make changes to notify students, staff and faculty.

We will be posting signs in the bathrooms informing students staff and faculty that sinks are for Hand Washing only.

NEXT STEPS

N/A

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 **Scott Dubay** at **443-451-1331**. 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. 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.