

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Earle B. Wood Middle School  
14615 Bauer Drive  
Rockville, MD 20853

Report Date: April 2nd, 2020

## LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

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 (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	3/4/2020
# of Outlets Tested	57
# of Outlets $\geq$ 5 ppb	0

## NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

## 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, cosmetics, exposure in the work place and from certain hobbies. 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.

### **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 Brian Mullikin, Environmental Team Leader, at 240.740.2324 or [brian\\_a\\_mullikin@mcpsmd.org](mailto:brian_a_mullikin@mcpsmd.org).
2. 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).
3. 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.

*Please refer to the attachment(s) for additional water sampling information.*

**Attachment(s)** A – Lead in Water Sample Results Table

**ATTACHMENT A**

**Lead in Water Sample Results Table**

## Sampling Results for Earle B. Wood MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW07258	In break room 232B	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW07259	In classroom 234	Classroom Sink	1.3	Pass	N/A	Testing Complete
LW07261	In hallway next to 258	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07262	In hallway next to 258	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07263	In break room 252	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW07264	In hallway In front of cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07265	In hallway In front of cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07266	In health room 304	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW07267	In hallway In front of 280	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07268	In hallway In front of 280	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07269	In hallway across from main office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07270	In music 202	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07271	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07272	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07273	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW07274	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW07275	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW07276	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW07277	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW07278	In kitchen	Kitchen Sink	1.0	Pass	N/A	Testing Complete
LW07281	In classroom 100A	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07282	In hallway In front of girls locker	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07283	In work room by office ie. inside of Phys ed office	Classroom Sink	<1	Pass	N/A	Testing Complete
M36940	In copy by admin ie. in admin	Classroom Sink	<1	Pass	N/A	Testing Complete
M36952	In kitchen by cafeteria	Ice Machine	<1	Pass	N/A	Testing Complete
M36973	In classroom 210	Classroom Sink	<1	Pass	N/A	Testing Complete

M36976	In classroom 212	Classroom Sink	<1	Pass	N/A	Testing Complete
M36986	In hallway next to CR 265	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36987	In hallway next to CR 265	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37012	In team 232A	Classroom Sink	<1	Pass	N/A	Testing Complete
M37015	In classroom 243	Classroom Sink	2.6	Pass	N/A	Testing Complete
M37016	In classroom 243	Classroom Sink	2.2	Pass	N/A	Testing Complete
M37017	In classroom 243	Classroom Sink	<1	Pass	N/A	Testing Complete
M37032	In team room 279B	Classroom Sink	<1	Pass	N/A	Testing Complete
M37046	In material prep 221A	Classroom Sink	3.8	Pass	N/A	Testing Complete
M37047	In special ed 277B	Classroom Sink	<1	Pass	N/A	Testing Complete
M37056	In hallway In front of 271	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37057	In hallway In front of 221	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37075	In work room 302C by media center	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M37077	In classroom 281	Classroom Sink	2.5	Pass	N/A	Testing Complete
M37078	In classroom 281	Classroom Sink	2.1	Pass	N/A	Testing Complete
M37080	In classroom 286	Classroom Sink	1.6	Pass	N/A	Testing Complete
M37081	In conference room 283A	Classroom Sink	<1	Pass	N/A	Testing Complete
M37082	In team room 283B	Classroom Sink	1.4	Pass	N/A	Testing Complete
M37107	In hallway across CR 245	Drinking Fountain	3.0	Pass	N/A	Testing Complete
M37108	In hallway across CR 245	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37110	In hallway next to 107B	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37111	In hallway next to 107B	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37117	In classroom 104	Classroom Sink	<1	Pass	N/A	Testing Complete
M37118	In classroom 102	Classroom Sink	<1	Pass	N/A	Testing Complete
M37125	In work room 100A	Classroom Sink	<1	Pass	N/A	Testing Complete
M37135	In hallway next to 101A	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37136	In hallway next to 101A	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37142	In girls locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw07279	In kitchen 8of8 LTR	Kitchen Sink	<1	Pass	N/A	Testing Complete

M37079	In Classroom 281	Classroom Sink	2.9	Pass	N/A	Testing Complete
Lw07759	In hallway adjacent to STORAGE 101A	Drinking Fountain	<1	Pass	N/A	Testing Complete



## **MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018**

**Executive Summary:**  
**Earle B. Wood Middle School**  
14615 Bauer Drive  
Rockville, MD 20853

Date of Test Report:	04/03/2018
Round of Testing:	Initial
# of Outlets Tested:	57
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	6.0

**Project Status**  
**Initial testing complete:** All results less than 20 ppb.



April 3, 2018

Mr. Brian Mullikin  
Environmental Team Leader  
Montgomery County Public Schools  
8301 Turkey Thicket Drive  
Building A, First Floor  
Gaithersburg, Maryland 20879

Re: Lead in Water Testing Service

Location: Earle B. Wood Middle School  
14615 Bauer Drive  
Rockville, MD 20853

Dear Mr. Mullikin:

Professional Services Industries (PSI), Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of initial lead in water testing at Earle B. Wood Middle School, located at 14615 Bauer Drive, Rockville, MD 20853.

**Scope of Services:**

PSI conducted lead in water testing at Earle B. Wood Middle School in accordance with the Environmental Protection Agency (EPA) and Maryland House Bill (HB) 270. State regulation established an action level of 20 parts per billion (ppb) to evaluate lead levels in school buildings, a concentration EPA recommends that schools take action to reduce lead below this action level. Maryland requires periodic testing for the presence of lead in drinking water in occupied public and nonpublic school buildings. EPA developed the 3T's (Training, Testing, and Telling) to assist schools in reducing the lead concentrations in their drinking water. More information about 3T's can be found on the EPA website.

PSI visited the site on 03/05/18 and 03/06/18 to collect samples from 57 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water—Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07.

Samples were submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

**Results:**

There were no results of the lead in water analysis at or above 20 parts per billion (ppb).

The lead in water sample results < 20 ppb for sample collection date 03/06/18 are shown in Attachment A.





**Discussion:**

Lead is a naturally occurring element that can be harmful to humans when ingested or inhaled, particularly to children under the age of six. Lead can adversely affect the development of children's brain potentially leading to detrimental alterations in intelligence and behavior. Lead has been historically used in plumbing, paint and other building materials. Lead is released into the environment from industrial sources and fuel combustion. Lead may also be found in consumer products (imported candy, medicines, toys, dishes, etc.).

Most lead leaches into drinking water from contact with plumbing components such as faucets and valves made of brass or lead-containing solder. The physical and chemical interaction that occurs between the plumbing and water directly contributes to the amount of lead that is released into the water. Although plumbing components installed prior to the 1990's could contain more lead than newer materials, the amount of lead in the drinking water cannot be predicted by the age of building. The purpose of this regulation is to establish a program to minimize the risk of exposure to lead in drinking water outlets at schools.

Simple steps like keeping your home clean and well-maintained will go a long way in preventing lead exposure. These steps include inspecting and maintaining all painted surfaces to prevent paint deterioration, using only cold water to prepare food and drinks, flushing water outlets used for drinking or food preparation, and cleaning around painted areas where friction can generate dust, such as doors, windows, and drawers. Wipe these areas with a wet sponge or rag to remove paint chips or dust, and wash children's hands, bottles, pacifiers and toys often.

Respectfully Submitted,

**PROFESSIONAL SERVICE INDUSTRIES, INC.**

Nand Kaushik, P.E.  
Department Manager, Environmental Services  
[Nand.Kaushik@psiusa.com](mailto:Nand.Kaushik@psiusa.com)

Attachments:           A – Lead in Water Test Summary Table

# ATTACHMENT A

## Lead in Water Test Summary Table

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

### Sample Results for Earle B. Wood Middle School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07258	232B	Break Room		Faucet	<1.0	Pass	Testing Complete
LW07259	234	Classroom		Faucet	1.5	Pass	Testing Complete
LW07261		Hallway	Next To Room 258	Cooler	<1.0	Pass	Testing Complete
LW07262		Hallway	Next To Room 258	Cooler	<1.0	Pass	Testing Complete
LW07263	252	Break Room		Faucet	<1.0	Pass	Testing Complete
LW07264		Hallway	In Front Of Cafeteria	Cooler	<1.0	Pass	Testing Complete
LW07265		Hallway	In Front Of Cafeteria	Cooler	<1.0	Pass	Testing Complete
LW07266	304	Health Room		Faucet	<1.0	Pass	Testing Complete
LW07267		Hallway	In Front Of Room 280	Cooler	<1.0	Pass	Testing Complete
LW07268		Hallway	In Front Of Room 280	Cooler	<1.0	Pass	Testing Complete
LW07269		Hallway	Across From Main Office	Cooler	<1.0	Pass	Testing Complete
LW07270	202	Music		Faucet	2.9	Pass	Testing Complete
LW07271		Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW07272		Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW07273		Kitchen		Faucet	1.2	Pass	Testing Complete
LW07274		Kitchen		Faucet	1.6	Pass	Testing Complete
LW07275		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW07276		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW07277		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW07278		Kitchen		Faucet	2.0	Pass	Testing Complete
LW07279		Kitchen		Faucet	5.9	Pass	Testing Complete
LW07281	100A	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07282		Hallway	In Front Of Girls Locker	Cooler	<1.0	Pass	Testing Complete
LW07283		Work Room Office	Inside Of Phys Ed Office	Faucet	<1.0	Pass	Testing Complete
M36940		Copy Room	Administration	Faucet	<1.0	Pass	Testing Complete
M36952		Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M36973	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M36976	212	Classroom		Faucet	1.2	Pass	Testing Complete
M36986		Hallway	Next to Room 265	Cooler	<1.0	Pass	Testing Complete
M36987		Hallway	Next to Room 265	Cooler	<1.0	Pass	Testing Complete
M36988	230A	Work Room	Inside Of Room 230	Faucet	3.8	Pass	Testing Complete
M37012	232A	Team Rm		Faucet	1.8	Pass	Testing Complete
M37015	243	Classroom		Faucet	1.1	Pass	Testing Complete
M37016	243	Classroom		Faucet	1.8	Pass	Testing Complete
M37017	243	Classroom		Faucet	2.5	Pass	Testing Complete
M37032	279B	Team Room		Faucet	1.2	Pass	Testing Complete
M37046	221A	Material Prep		Faucet	1.2	Pass	Testing Complete
M37047	277B	Special Ed		Faucet	<1.0	Pass	Testing Complete
M37056		Hallway	In Front Of Room 271	Cooler	<1.0	Pass	Testing Complete
M37057		Hallway	In Front Of Room 221	Cooler	<1.0	Pass	Testing Complete
M37075	302C	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M37077	281	Classroom		Faucet	1.7	Pass	Testing Complete
M37078	281	Classroom		Faucet	1.1	Pass	Testing Complete
M37079	281	Classroom		Faucet	6.0	Pass	Testing Complete
M37080	286	Classroom		Faucet	1.0	Pass	Testing Complete
M37081	283A	Conference Room		Faucet	1.4	Pass	Testing Complete
M37082	283B	Team Room		Faucet	2.8	Pass	Testing Complete
M37107		Hallway	Across Room245	Cooler	<1.0	Pass	Testing Complete
M37108		Hallway	Across Room 245	Cooler	<1.0	Pass	Testing Complete
M37110		Hallway	Next to Room 107B	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M37111		Hallway	Next to Room 107B	Cooler	<1.0	Pass	Testing Complete
M37117	104	Classroom		Faucet	<1.0	Pass	Testing Complete
M37118	102	Classroom		Faucet	<1.0	Pass	Testing Complete
M37125	100A	Work Room		Faucet	<1.0	Pass	Testing Complete
M37135		Hallway	Next to Room 101A	Cooler	<1.0	Pass	Testing Complete
M37136		Hallway	Next to Room 101A	Cooler	<1.0	Pass	Testing Complete
M37142		Girls Locker Room		Cooler	<1.0	Pass	Testing Complete

\*ppb = parts per billion