

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Wood Acres Elementary School  
5800 Cromwell Drive  
Bethesda, MD 20816**

**Report Date: April 7<sup>th</sup>, 2022**

## **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	12/07/2021
# of Outlets Tested	62
# of Outlets $\geq$ 5 ppb	5

## **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 Wood Acres ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW02091	In classroom 134	Classroom Sink	1.7	Pass	N/A	Testing Complete
LW08959	In classroom 133	Classroom Sink	3.6	Pass	N/A	Testing Complete
LW08962	In classroom 126	Classroom Sink	<1	Pass	N/A	Testing Complete
LW08964	In classroom 128	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW08966	In classroom 137	Classroom Sink	2.0	Pass	N/A	Testing Complete
LW08978	In work room 104	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW08979	In classroom 103	Classroom Sink	<1	Pass	N/A	Testing Complete
LW08981	In classroom 124	Classroom Sink	1.3	Pass	N/A	Testing Complete
LW10439	In hallway next to boys room 264	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10440	In hallway next to girls room 113	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11333	In hallway adjacent to boy's room 142	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11334	In hallway adjacent to boys room 164	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11335	In hallway next to boys room 243	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11570	In classroom 169	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11571	In classroom 170	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW11572	In dual purpose room 172	Classroom Sink	3.5	Pass	N/A	Testing Complete
LW11573	In classroom 173	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW11574	In classroom 174	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11575	In planetarium 115	Classroom Sink	7.4	Fail	<1	Testing Complete
LW11576	In music 117	Classroom Sink	2.0	Pass	N/A	Testing Complete
LW11577	In music 117	Bubbler - Indoor	2.1	Pass	N/A	Testing Complete
LW11580	In music 205	Classroom Sink	7.0	Fail	<1	Testing Complete
LW11581	In music 205	Bubbler - Indoor	2.3	Pass	N/A	Testing Complete
LW11582	In hallway next to gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11645	In special ed 130	Classroom Sink	2.2	Pass	N/A	Testing Complete
LW11647	In classroom 132	Classroom Sink	3.5	Pass	N/A	Testing Complete
LW11935	In hallway next to gym	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11936	In cafeteria	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11937	In kitchen	Kitchen Sink	1.1	Pass	N/A	Testing Complete
LW11938	In resource center 229	Classroom Sink	<1	Pass	N/A	Testing Complete

LW11940	In classroom 233	Classroom Sink	6.9	Fail	<1	Testing Complete
LW11941	In classroom 228	Classroom Sink	1.6	Pass	N/A	Testing Complete
LW11943	In classroom 235	Teacher's Lounge Sink	1.9	Pass	N/A	Testing Complete
LW11945	In classroom 230	Classroom Sink	3.4	Pass	N/A	Testing Complete
LW11947	In classroom 251	Classroom Sink	1.3	Pass	N/A	Testing Complete
LW11949	In classroom 240	Classroom Sink	1.5	Pass	N/A	Testing Complete
LW11953	In classroom 266	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11954	In classroom 266	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW11955	In classroom 267	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11957	In ESOL 271	Classroom Sink	1.7	Pass	N/A	Testing Complete
LW11958	In classroom 270	Classroom Sink	3.8	Pass	N/A	Testing Complete
LW11959	In classroom 274	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11960	In classroom 273	Classroom Sink	2.2	Pass	N/A	Testing Complete
LW11999	In classroom 237	Classroom Sink	1.2	Pass	N/A	Testing Complete
LW12001	In classroom 232	Classroom Sink	<1	Pass	N/A	Testing Complete
LW12003	In classroom 239	Classroom Sink	2.7	Pass	N/A	Testing Complete
LW12005	In classroom 234	Classroom Sink	2.0	Pass	N/A	Testing Complete
LW12008	In classroom 238	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW12010	In classroom 249	Classroom Sink	<1	Pass	N/A	Testing Complete
M14355	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M14358	In kitchen	Kitchen Sink	7.2	Fail	<1	Testing Complete
M14379	In break room 223	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M14381	In speech therapy 220	Classroom Sink	<1	Pass	N/A	Testing Complete
M14410	In classroom 236	Teacher's Lounge Sink	1.3	Pass	N/A	Testing Complete
M14445	In classroom 135	Teacher's Lounge Sink	1.9	Pass	N/A	Testing Complete
M14454	In classroom 131	Classroom Sink	<1	Pass	N/A	Testing Complete
M14457	In classroom 122	Classroom Sink	2.1	Pass	N/A	Testing Complete
M14459	In classroom 121	Classroom Sink	7.8	Fail	1.1	Testing Complete
M14471	In work room by media center	Teacher's Lounge Sink	2.1	Pass	N/A	Testing Complete
M33455	In classroom 271	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
M33456	In classroom 270	Bubbler - Indoor	2.0	Pass	N/A	Testing Complete
M33457	In classroom 172	Bubbler - Indoor	<1	Pass	N/A	Testing Complete



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

**Executive Summary:**  
**Wood Acres Elementary School**  
5800 Cromwell Drive,  
Bethesda, MD 20816

Date of Test Report:	6/15/2018
Round of Testing:	Initial
# of Outlets Tested:	104
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	5.1

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



June 15, 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: Wood Acres Elementary School  
5800 Cromwell Drive,  
Bethesda, MD 20816

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 Wood Acres Elementary School, located at 5800 Cromwell Drive, Bethesda, MD 20816.

**Scope of Services:**

PSI conducted lead in water testing at Wood Acres Elementary 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 4/25/18 and 4/26/18 to collect samples from 104 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 4/26/18 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.**

A handwritten signature in black ink that reads "Nand Kaushik".

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 Wood Acres Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW02084	155	Art		Faucet	<1.0	Pass	Testing Complete
LW02085	155	Art		Faucet	1.1	Pass	Testing Complete
LW02086	155	Art		Faucet	1.3	Pass	Testing Complete
LW02088	155	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02089	134	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02091	134	Classroom		Faucet	1.4	Pass	Testing Complete
LW02092	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08735	122	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW08957		Hallway	Next To 113	Cooler	<1.0	Pass	Testing Complete
LW08958		Hallway	Next To 113	Cooler	<1.0	Pass	Testing Complete
LW08959	133	Classroom		Faucet	1.4	Pass	Testing Complete
LW08960	133	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08961	135	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW08962	126	Classroom		Faucet	3.2	Pass	Testing Complete
LW08963	126	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08964	128	Classroom		Faucet	1.1	Pass	Testing Complete
LW08965	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08966	137	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08967	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08968		Hallway	Next To 139	Cooler	<1.0	Pass	Testing Complete
LW08969		Hallway	Next To 139	Cooler	<1.0	Pass	Testing Complete
LW08978	104	Work Room		Faucet	1.5	Pass	Testing Complete
LW08979	103	Classroom		Faucet	2.6	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08980	131	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08981	124	Classroom		Faucet	1.6	Pass	Testing Complete
LW08982	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08995	102	Health Room		Faucet	<1.0	Pass	Testing Complete
LW11570	169	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11571	170	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11572	172	Dual Purpose Room		Faucet	1.6	Pass	Testing Complete
LW11573	173	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11574	174	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11575	115	Planetarium		Faucet	4.8	Pass	Testing Complete
LW11576	117	Music		Faucet	2.6	Pass	Testing Complete
LW11577	117	Music		Bubbler - Indoor	1.3	Pass	Testing Complete
LW11578		Hallway	Next To 203	Cooler	<1.0	Pass	Testing Complete
LW11579		Hallway	Next To 203	Cooler	<1.0	Pass	Testing Complete
LW11580	205	Music		Faucet	1.9	Pass	Testing Complete
LW11581	205	Music		Bubbler - Indoor	1	Pass	Testing Complete
LW11582		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW11645	130	Special Ed		Faucet	1.1	Pass	Testing Complete
LW11646	130	Special Ed		Bubbler - Indoor	1	Pass	Testing Complete
LW11647	132	Classroom		Faucet	2.5	Pass	Testing Complete
LW11934		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW11935		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW11936		Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW11937		Kitchen		Faucet	3.8	Pass	Testing Complete
LW11938	229	Resource Center		Faucet	<1.0	Pass	Testing Complete
LW11939	233	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11940	233	Classroom		Bubbler - Indoor	2	Pass	Testing Complete
LW11941	228	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW11942	228	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW11943	235	Classroom		Faucet	3.7	Pass	Testing Complete
LW11945	230	Classroom		Faucet	1.1	Pass	Testing Complete
LW11946	230	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11947	251	Classroom		Faucet	1	Pass	Testing Complete
LW11948	251	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11949	240	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11950	240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11951		Hallway	Next To 263	Cooler	<1.0	Pass	Testing Complete
LW11952		Hallway	Next To 263	Cooler	<1.0	Pass	Testing Complete
LW11953	266	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11954	266	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11955	267	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11956	267	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11957	271	ESOL		Faucet	2.3	Pass	Testing Complete
LW11958	270	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11958	270	Classroom		Faucet	1.3	Pass	Testing Complete
LW11960	273	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11999	237	Classroom		Faucet	1.3	Pass	Testing Complete
LW12000	237	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW12001	232	Classroom		Faucet	<1.0	Pass	Testing Complete
LW12002	232	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW12003	239	Classroom		Faucet	2.2	Pass	Testing Complete
LW12004	239	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW12005	234	Classroom		Faucet	1	Pass	Testing Complete
LW12007	236	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW12008	238	Classroom		Faucet	2.5	Pass	Testing Complete
LW12009	238	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW12010	249	Classroom		Faucet	2.6	Pass	Testing Complete
LW12011	249	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M14355		Kitchen		Faucet	3.8	Pass	Testing Complete
M14356		Kitchen		Faucet	5.1	Pass	Testing Complete
M14358		Kitchen		Faucet	3.7	Pass	Testing Complete
M14379	223	Break Room		Faucet	<1.0	Pass	Testing Complete
M14381	220	Speech Therapy		Faucet	<1.0	Pass	Testing Complete
M14410	236	Classroom		Faucet	2.6	Pass	Testing Complete
M14445	135	Classroom		Faucet	1.2	Pass	Testing Complete
M14454	131	Classroom		Faucet	<1.0	Pass	Testing Complete
M14457	122	Classroom		Faucet	<1.0	Pass	Testing Complete
M14459	121	Classroom		Faucet	1	Pass	Testing Complete
M14460	121	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M14471		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M33450	273	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33451	274	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33455	271	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33456	270	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33457	172	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33459	170	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33460	169	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33461		Classroom	Next To 163	Cooler	<1.0	Pass	Testing Complete
M33462		Hallway	Next To 163	Cooler	<1.0	Pass	Testing Complete
M33468	173	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M33469	174	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

\*ppb = parts per billion