

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Thurgood Marshall Elementary School
12260 McDonald Chapel Drive
Gaithersburg, MD 20878**

Report Date: February 23rd, 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	11/17/2021
# of Outlets Tested	73
# of Outlets \geq 5 ppb	9

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.
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.
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 Thurgood Marshall ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW09230	In break room 10	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW09231	In classroom 11	Teacher's Lounge Sink	3.3	Pass	N/A	Testing Complete
LW09229	In classroom 12	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
LW09228	In classroom 12	Classroom Combination Sink	17.0	Fail	3.9	Testing Complete
LW09227	In classroom 13	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW09226	In classroom 13	Teacher's Lounge Sink	4.3	Pass	N/A	Testing Complete
LW09223	In classroom 14	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW09222	In classroom 14	Teacher's Lounge Sink	3.7	Pass	N/A	Testing Complete
LW09225	In classroom 15	Bubbler - Indoor	1.1	Pass	N/A	Testing Complete
LW09224	In classroom 15	Teacher's Lounge Sink	2.2	Pass	N/A	Testing Complete
LW09217	In classroom 21	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW09216	In classroom 21	Teacher's Lounge Sink	3.0	Pass	N/A	Testing Complete
LW09215	In classroom 23	Bubbler - Indoor	1.5	Pass	N/A	Testing Complete
LW09214	In classroom 23	Teacher's Lounge Sink	3.1	Pass	N/A	Testing Complete
LW09259	In classroom 30	Classroom Sink	2.0	Pass	N/A	Testing Complete
LW09258	In classroom 32	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW09257	In classroom 32	Classroom Combination Sink	3.6	Pass	N/A	Testing Complete
LW09248	In classroom 34	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09247	In classroom 34	Classroom Combination Sink	3.9	Pass	N/A	Testing Complete
LW09242	In classroom 38	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09241	In classroom 38	Classroom Combination Sink	18.5	Fail	<1	Testing Complete
LW09252	In classroom 39	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW09251	In classroom 39	Classroom Combination Sink	4.0	Pass	N/A	Testing Complete
LW09200	In classroom 4	Teacher's Lounge Sink	1.4	Pass	N/A	Testing Complete
LW09240	In classroom 40	Classroom Combination Drinking Fountain	1.6	Pass	N/A	Testing Complete
LW09239	In classroom 40	Classroom Combination Sink	3.4	Pass	N/A	Testing Complete
LW09250	In classroom 41	Classroom Combination Drinking Fountain	3.1	Pass	N/A	Testing Complete
LW09249	In classroom 41	Classroom Combination Sink	7.3	Fail	<1	Testing Complete
LW09238	In classroom 42	Classroom Combination Drinking Fountain	1.7	Pass	N/A	Testing Complete
LW09237	In classroom 42	Classroom Combination Sink	3.2	Pass	N/A	Testing Complete

LW09236	In classroom 44	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
LW09235	In classroom 44	Classroom Combination Sink	4.5	Pass	N/A	Testing Complete
LW09212	In day care 25 bar T	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW09213	In day care 25 bar T	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW09210	In day care 27 bar T	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW09211	In day care 27 bar T	Bubbler - Indoor	61.7	Fail	Device Removed	Testing Complete
LW09209	In day care 29 bar T	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW09206	In day care DC129 bar T kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09207	In day care DC129 bar T kitchen	Kitchen Sink	2.3	Pass	N/A	Testing Complete
LW09253	In ESOL 35	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
E41663	In hallway adjacent to CR 1	Drinking Fountain	<1	Pass	N/A	Testing Complete
E41664	In hallway adjacent to CR 1	Drinking Fountain	<1	Pass	N/A	Testing Complete
E41723	In hallway adjacent to CR 17	Drinking Fountain	<1	Pass	N/A	Testing Complete
E41724	In hallway adjacent to CR 17	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09243	In hallway adjacent to CR 38	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09244	In hallway adjacent to CR 38	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09199	In hallway adjacent to room 4	Classroom Combination Sink	4.2	Pass	N/A	Testing Complete
LW09261	In hallway adjacent to the all purpose room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09262	In hallway adjacent to the all purpose room	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10601	In hallway adjacent to the all purpose room	Bottle Filler	<1	Pass	N/A	Testing Complete
LW09191	In health room adjacent to administration	Nurses Office Sink	1.1	Pass	N/A	Testing Complete
LW09205	In kindergarten 1	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW09203	In kindergarten 1	Teacher's Lounge Sink	1.8	Pass	N/A	Testing Complete
LW09204	In kindergarten 1	Teacher's Lounge Sink	2.2	Pass	N/A	Testing Complete
LW09202	In kindergarten 3	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW09201	In kindergarten 3	Teacher's Lounge Sink	2.0	Pass	N/A	Testing Complete
LW09197	In kindergarten 5	Classroom Combination Drinking Fountain	14.0	Fail	Device Removed	Testing Complete
LW09196	In kindergarten 5	Teacher's Lounge Sink	2.2	Pass	N/A	Testing Complete
LW09195	In kindergarten 5	Teacher's Lounge Sink	5.2	Fail	<1	Testing Complete
LW09192	In kindergarten 7	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW09193	In kindergarten 7	Teacher's Lounge Sink	4.6	Pass	N/A	Testing Complete
E41686	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
E41687	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete

E41688	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09198	In music 8	Teacher's Lounge Sink	7.9	Fail	<1	Testing Complete
LW09255	In resource center 33	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW09220	In special ed 17 pep classic	Teacher's Lounge Sink	3.9	Pass	N/A	Testing Complete
LW09218	In special ed 19	Teacher's Lounge Sink	1.6	Pass	N/A	Testing Complete
LW09219	In special ed 19	Bubbler - Indoor	1.7	Pass	N/A	Testing Complete
LW09234	In special ed 9	Bubbler - Indoor	32.6	Fail	Device Removed	Testing Complete
LW09233	In special ed 9	Teacher's Lounge Sink	5.3	Fail	<1	Testing Complete
LW09208	In work room 28	Teacher's Lounge Sink	4.4	Pass	N/A	Testing Complete
E41655	In work room adjacent administration	Teacher's Lounge Sink	2.2	Pass	N/A	Testing Complete



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

Executive Summary:

Thurgood Marshall Elementary School

12260 McDonald Chapel Drive,
Gaithersburg, MD 20878

Date of Test Report:	6/1/2018
Round of Testing:	Initial
# of Outlets Tested:	80
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	13.0

Project Status

Initial testing complete: All results less than 20 ppb.



June 7, 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: Thurgood Marshall Elementary School
12260 McDonald Chapel Drive,
Gaithersburg, MD 20878

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 Thurgood Marshall Elementary School, located at 12260 McDonald Chapel Drive, Gaithersburg, MD 20878.

Scope of Services:

PSI conducted lead in water testing at Thurgood Marshall 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 4/18/18 and 4/19/18 to collect samples from 80 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 4/19/18 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

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 Thurgood Marshall Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
E41655		Work Room Administration		Faucet	2.3	Pass	Testing Complete
E41663		Hallway	Across from CR 1	Cooler	<1.0	Pass	Testing Complete
E41664		Hallway	Across from CR 1	Cooler	<1.0	Pass	Testing Complete
E41671	3	Kindergarten		Faucet	13.0	Pass	Testing Complete
E41686		Kitchen		Faucet	<1.0	Pass	Testing Complete
E41687		Kitchen		Faucet	<1.0	Pass	Testing Complete
E41688		Kitchen		Faucet	1.9	Pass	Testing Complete
E41689		Kitchen		Faucet	5.9	Pass	Testing Complete
E41723		Hallway	Across from CR 17	Cooler	<1.0	Pass	Testing Complete
E41724		Hallway	Across from CR 17	Cooler	<1.0	Pass	Testing Complete
LW09191		Health Room Administration		Faucet	1.5	Pass	Testing Complete
LW09192	7	Kindergarten		Faucet	1.2	Pass	Testing Complete
LW09193	7	Kindergarten		Faucet	2.6	Pass	Testing Complete
LW09194	7	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09195	5	Kindergarten		Faucet	4.0	Pass	Testing Complete
LW09196	5	Kindergarten		Faucet	2.4	Pass	Testing Complete
LW09197	5	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09198	8	Music		Faucet	2.3	Pass	Testing Complete
LW09199	6	Classroom		Faucet	2.0	Pass	Testing Complete
LW09200	4	Classroom		Faucet	1.5	Pass	Testing Complete
LW09201	3	Kindergarten		Faucet	1.8	Pass	Testing Complete
LW09202	3	Kindergarten		Bubbler - Indoor	1.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09203	1	Kindergarten		Faucet	1.0	Pass	Testing Complete
LW09204	1	Kindergarten		Faucet	4.3	Pass	Testing Complete
LW09205	1	Kindergarten		Bubbler - Indoor	1.5	Pass	Testing Complete
LW09206	DC129	Day Care	Bar T Kitchen	Faucet	<1.0	Pass	Testing Complete
LW09207	DC129	Day Care	Bar T Kitchen	Faucet	1.0	Pass	Testing Complete
LW09208	28	Work Room		Faucet	2.0	Pass	Testing Complete
LW09209	29	Day Care	Bar T	Faucet	<1.0	Pass	Testing Complete
LW09210	27	Day Care	Bar T	Faucet	<1.0	Pass	Testing Complete
LW09211	27	Day Care	Bar T	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09212	25	Day Care	Bar T	Faucet	<1.0	Pass	Testing Complete
LW09213	25	Day Care	Bar T	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09214	23	Classroom		Faucet	3.5	Pass	Testing Complete
LW09215	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09216	21	Classroom		Faucet	2.5	Pass	Testing Complete
LW09217	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09218	19	Special Ed		Faucet	1.5	Pass	Testing Complete
LW09219	19	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09220	17	Special Ed	Pep Classic	Faucet	1.4	Pass	Testing Complete
LW09221	17	Special Ed	Pep Classic	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09222	14	Classroom		Faucet	3.8	Pass	Testing Complete
LW09223	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09224	15	Classroom		Faucet	2.2	Pass	Testing Complete
LW09225	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09226	13	Classroom		Faucet	2.9	Pass	Testing Complete
LW09227	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09228	12	Classroom		Faucet	1.7	Pass	Testing Complete
LW09229	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09230	10	Break Room		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09231	11	Classroom		Faucet	2.0	Pass	Testing Complete
LW09233	9	Special Ed		Faucet	1.7	Pass	Testing Complete
LW09234	9	Special Ed		Bubbler - Indoor	1.4	Pass	Testing Complete
LW09235	44	Classroom		Faucet	3.9	Pass	Testing Complete
LW09236	44	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09237	42	Classroom		Faucet	3.2	Pass	Testing Complete
LW09238	42	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW09239	40	Classroom		Faucet	2.6	Pass	Testing Complete
LW09240	40	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09241	38	Classroom		Faucet	3.2	Pass	Testing Complete
LW09242	38	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09243		Hallway	Across from CR 38	Cooler	<1.0	Pass	Testing Complete
LW09244		Hallway	Across from CR 38	Cooler	<1.0	Pass	Testing Complete
LW09245	36	Classroom		Faucet	5.1	Pass	Testing Complete
LW09246	36	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09247	34	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09248	34	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
LW09249	41	Classroom		Faucet	3.4	Pass	Testing Complete
LW09251	39	Classroom		Faucet	2.6	Pass	Testing Complete
LW09252	39	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09253	35	ESOL		Faucet	<1.0	Pass	Testing Complete
LW09254	35	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09255	33	Resource Center		Faucet	<1.0	Pass	Testing Complete
LW09256	33	Resource Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09257	32	Classroom		Faucet	3.0	Pass	Testing Complete
LW09258	32	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09259	30	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09260	30	Classroom		Bubbler - Indoor	5.8	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09261		Hallway	Outside of All Purpose Room	Cooler	<1.0	Pass	Testing Complete
LW09262		Hallway	Outside of All Purpose Room	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion