

Montgomery County Public Schools Lead in Drinking Water Testing Report

Thomas W. Pyle Middle School
6311 Wilson Lane
Bethesda, MD 20817

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	12/07/2021
# of Outlets Tested	63
# of Outlets \geq 5 ppb	1

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 Thomas W. Pyle MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW10335	In boys locker room 117T	Bottle Filler	<1	Pass	N/A	Testing Complete
LW09371	In break room 137	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW09376	In break room 246	Teachers Lounge Sink	1.3	Pass	N/A	Testing Complete
LW10334	In classroom 118E	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10333	In classroom 118E	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
LW10342	In classroom 131	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10345	In classroom 131	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10344	In classroom 131	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW10343	In classroom 131	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW09380	In classroom 216	Classroom Sink	1.5	Pass	N/A	Testing Complete
LW10327	In classroom 223B	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW10326	In classroom 223B	Classroom Combination Sink	2.5	Pass	N/A	Testing Complete
LW10325	In classroom 223D	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW10324	In classroom 223D	Classroom Combination Sink	7.1	Fail	<1	Testing Complete
LW10339	In girls locker room 119G	Bottle Filler	<1	Pass	N/A	Testing Complete
LW09368	In hallway adjacent to 126 gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09369	In hallway adjacent to 137	Bottle Filler	<1	Pass	N/A	Testing Complete
LW09370	In hallway adjacent to 137	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09372	In hallway adjacent to 39c	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09373	In hallway adjacent to 39c	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10323	In hallway adjacent to classroom 237	Bottle Filler	<1	Pass	N/A	Testing Complete
LW09378	In hallway adjacent to CR237	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09374	In hallway left of 47	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09375	In hallway left of 47	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09363	In hallway next to 122a	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10340	In hallway next to 2nd gym 118T	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10341	In hallway next to 2nd gym 118T	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10336	In hallway next to classroom 118P	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10337	In hallway next to classroom 118P	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10338	In hallway next to classroom 118P	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW10330	In hallway next to classroom 325	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10331	In hallway next to classroom 325	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10332	In hallway next to classroom 325	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10310	In hallway next to gbr 223	Bottle Filler	<1	Pass	N/A	Testing Complete
LW1039	In hallway next to gbr 223	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10328	In hallway next to room 222B	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10329	In hallway next to room 222B	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09352	In health room 134	Nurses Office Sink	1.5	Pass	N/A	Testing Complete
LW09382	In home economics 218	Classroom Sink	<1	Pass	N/A	Testing Complete
LW09383	In home economics 218	Classroom Sink	<1	Pass	N/A	Testing Complete
LW09385	In home economics 218	Classroom Sink	<1	Pass	N/A	Testing Complete
LW09386	In home economics 218	Classroom Sink	<1	Pass	N/A	Testing Complete
LW09384	In home economics 218	Classroom Sink	1.2	Pass	N/A	Testing Complete
LW09381	In home economics 218	Classroom Sink	1.6	Pass	N/A	Testing Complete
LW09353	In kitchen 120 by cafeteria	Ice Machine	<1	Pass	N/A	Testing Complete
LW09357	In kitchen 120 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09358	In kitchen 120 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09360	In kitchen 120 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09361	In kitchen 120 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW09354	In kitchen 120 by cafeteria	Kitchen Sink	1.1	Pass	N/A	Testing Complete
LW09355	In kitchen 120 by cafeteria	Kitchen Sink	1.1	Pass	N/A	Testing Complete
LW09356	In kitchen 120 by cafeteria	Kitchen Sink	1.2	Pass	N/A	Testing Complete
LW09362	In kitchen 120 by cafeteria	Kitchen Sink	4.3	Pass	N/A	Testing Complete
LW09359	In kitchen 120 by cafeteria	Kitchen Sink	4.7	Pass	N/A	Testing Complete
LW09365	In locker boy's room 118	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09366	In locker girl's room 118E	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10346	In student dining 117	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10347	In student dining 117	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36206	In team room 232	Teacher's Lounge Sink	1.6	Pass	N/A	Testing Complete
LW10322	In upper dining 220	Drinking Fountain	<1	Pass	N/A	Testing Complete
M36380	In work room 100H by administration	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M36255	In work room 140 by media center	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW09377	In work room 234	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary:
Thomas W. Pyle Middle School
6311 Wilson Lane,
Bethesda, MD 20817

Date of Test Report:	6/15/2018
Round of Testing:	Initial
# of Outlets Tested:	41
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	3.4

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: Thomas W. Pyle Middle School
6311 Wilson Lane,
Bethesda, MD 20817

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 Thomas W. Pyle Middle School, located at 6311 Wilson Lane, Bethesda, MD 20817.

Scope of Services:

PSI conducted lead in water testing at Thomas W. Pyle 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 4/24/18 and 4/25/18 to collect samples from 41 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 4/25/18 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 Thomas W. Pyle Middle School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09352	134	Health Room		Faucet	1.4	Pass	Testing Complete
LW09353	120	Kitchen		Ice Maker	<1.0	Pass	Testing Complete
LW09354	120	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW09355	120	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW09356	120	Kitchen		Faucet	1.0	Pass	Testing Complete
LW09357	120	Kitchen		Faucet	2.2	Pass	Testing Complete
LW09358	120	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW09359	120	Kitchen		Faucet	1.7	Pass	Testing Complete
LW09360	120	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW09361	120	Kitchen		Faucet	1.0	Pass	Testing Complete
LW09362	120	Kitchen		Faucet	1.5	Pass	Testing Complete
LW09363		Hallway	Next To 122a	Cooler	<1.0	Pass	Testing Complete
LW09364	122A	Costume Room		Faucet	3.4	Pass	Testing Complete
LW09365	118	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW09366	118E	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW09367		Hallway	Left Of 121	Cooler	<1.0	Pass	Testing Complete
LW09368		Hallway	Across From 126 Gym	Cooler	<1.0	Pass	Testing Complete
LW09369		Hallway	Across From 137	Cooler	<1.0	Pass	Testing Complete
LW09370		Hallway	Across From 137	Cooler	<1.0	Pass	Testing Complete
LW09371	137	Break Room		Faucet	<1.0	Pass	Testing Complete
LW09372		Hallway	Across From 39c	Cooler	<1.0	Pass	Testing Complete
LW09373		Hallway	Across From 39c	Faucet	<1.0	Pass	Testing Complete
LW09374		Hallway	Left Of 47	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09375		Hallway	Left Of 47	Cooler	<1.0	Pass	Testing Complete
LW09376	246	Break Room		Faucet	<1.0	Pass	Testing Complete
LW09377	234	Work Room		Faucet	<1.0	Pass	Testing Complete
LW09378		Hallway	Across From Cr237	Cooler	<1.0	Pass	Testing Complete
LW09379		Hallway	Across From Cr237	Cooler	<1.0	Pass	Testing Complete
LW09380	216	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09381	218	Home Economics		Faucet	1.3	Pass	Testing Complete
LW09382	218	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW09383	218	Home Economics		Faucet	1.1	Pass	Testing Complete
LW09384	218	Home Economics		Faucet	1.5	Pass	Testing Complete
LW09385	218	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW09386	218	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW09387		Hallway	Left Of 223	Cooler	<1.0	Pass	Testing Complete
M36206	232	Team Room		Faucet	1.0	Pass	Testing Complete
M36255	140	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M36258	135	Office	Finance Office	Faucet	<1.0	Pass	Testing Complete
M36380	100H	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
M36401	39	Classroom		Faucet	2.7	Pass	Testing Complete

*ppb = parts per billion