

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Jones Lane Elementary School  
15110 Jones Lane  
Gaithersburg, MD 20878

Report Date: February 20<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	11/16/2021
# of Outlets Tested	64
# of Outlets $\geq$ 5 ppb	7

## 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 Jones Lane Elementary School

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW08997	In hallway adjacent to main office	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW08998	In classroom 31	Classroom Combination Sink	6.7	Fail	34.3	Testing Complete
LW08999	In classroom 31	Classroom Combination Drinking Fountain	6.1	Fail	Device removed	Testing Complete
LW09000	In classroom 29	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
LW09001	In classroom 29	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09002	In classroom 32	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW09003	In classroom 32	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09004	In classroom 30	Classroom Combination Sink	3.5	Pass	N/A	Testing Complete
LW09005	In classroom 30	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09007	In classroom 27	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW09008	In classroom 25	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW09009	In classroom 25	Classroom Combination Drinking Fountain	3.7	Pass	N/A	Testing Complete
LW09010	In classroom 28	Classroom Combination Sink	3.1	Pass	N/A	Testing Complete
LW09011	In classroom 28	Classroom Combination Drinking Fountain	29.1	Fail	14.7	Testing Complete
LW09012	In classroom 26	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW09013	In classroom 26	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09014	In hallway adjacent to 26	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09015	In classroom 23	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW09016	In classroom 23	Classroom Combination Drinking Fountain	3.9	Pass	N/A	Testing Complete
LW09017	In classroom 24	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW09018	In classroom 24	Classroom Combination Drinking Fountain	7.0	Fail	Device removed	Testing Complete
LW09019	In classroom 16	Classroom Combination Sink	4.9	Pass	N/A	Testing Complete
LW09020	In classroom 16	Classroom Combination Drinking Fountain	5.1	Fail	Device removed	Testing Complete
LW09021	In classroom 17	Classroom Combination Sink	3.2	Pass	N/A	Testing Complete
LW09022	In classroom 17	Classroom Combination Drinking Fountain	3.1	Pass	N/A	Testing Complete
LW09023	In break room	Teachers Lounge Sink	<1.0	Pass	N/A	Testing Complete
LW09024	In classroom 18	Classroom Combination Sink	4.4	Pass	N/A	Testing Complete
LW09025	In classroom 18	Classroom Combination Drinking Fountain	14.9	Fail	12.2	Testing Complete
LW09026	In classroom 19	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
LW09027	In classroom 19	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09028	In hallway adjacent to classroom 15	Drinking Fountain	<1.0	Pass	N/A	Testing Complete

LW09029	In classroom 15	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW09030	In classroom 15	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
LW09031	In classroom 12	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW09032	In classroom 12	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09033	In classroom 11	Classroom Combination Sink	1.9	Pass	N/A	Testing Complete
LW09035	In classroom 8	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
LW09036	In classroom 8	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09037	In classroom 6	Classroom Combination Drinking Fountain	3.5	Pass	N/A	Testing Complete
LW09038	In classroom 6	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09044	In classroom 4	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW09045	In classroom 4	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09046	In classroom 2	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW09047	In classroom 2	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW09048	In classroom 5	Classroom Combination Sink	6.5	Fail	6.8	Testing Complete
LW09049	In classroom 5	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09050	In hallway adjacent to gym	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09051	In hallway adjacent to gym	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW09054	In kitchen	Kitchen Sink	2.0	Pass	N/A	Testing Complete
M16044	In kitchen	Kitchen Sink	1.8	Pass	N/A	Testing Complete
M16045	In kitchen	Kitchen Sink	2.1	Pass	N/A	Testing Complete
M16046	In kitchen	Kitchen Sink	3.7	Pass	N/A	Testing Complete
M16053	In staff development	Teachers Lounge Sink	1.7	Pass	N/A	Testing Complete
M16099	In media center workroom	Teachers Lounge Sink	<1.0	Pass	N/A	Testing Complete
M16106	In hallway adjacent to classroom 19	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
M16107	In hallway adjacent to classroom 19	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
M16115	In kindergarten 22	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
M16118	In kindergarten 22	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
M16119	In kindergarten 21	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
M16120	In kindergarten 21	Classroom Combination Drinking Fountain	2.4	Pass	N/A	Testing Complete
M16122	In kindergarten 20	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
M16123	In kindergarten 20	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
M16148	In health room	Nurses Office Sink	2.5	Pass	N/A	Testing Complete
M16152	In admin work room	Teachers Lounge Sink	1.3	Pass	N/A	Testing Complete



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

### **Executive Summary:**

#### **Jones Lane Elementary School**

15110 Jones Lane

Darnestown, MD 20878

Date of Test Report:	05/11/2018
Round of Testing:	Initial
# of Outlets Tested:	55
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	14.2

### **Project Status**

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



May 11, 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: Jones Lane Elementary School  
15101 Jones Lane,  
Darnestown, 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 Jones Lane Elementary School, located at 15110 Jones Lane, Darnestown, MD 20878.

**Scope of Services:**

PSI conducted lead in water testing at Jones Lane 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 04/05/18 and 04/06/18 collect samples from 55 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 04/06/18 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.**

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 Jones Lane Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08996		Health Room		Bubbler - Indoor	5.7	Pass	Testing Complete
LW08997		Hallway	Across from Main Office	Cooler	<1.0	Pass	Testing Complete
LW08998	31	Classroom		Faucet	4.7	Pass	Testing Complete
LW09000	29	Classroom		Faucet	2.8	Pass	Testing Complete
LW09002	32	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09004	30	Classroom		Faucet	2.7	Pass	Testing Complete
LW09007	27	Classroom		Bubbler - Indoor	7.1	Pass	Testing Complete
LW09008	25	Classroom		Faucet	1.3	Pass	Testing Complete
LW09009	25	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW09012	26	Classroom		Faucet	1.8	Pass	Testing Complete
LW09014		Hallway	Right of CR 26	Cooler	<1.0	Pass	Testing Complete
LW09015	23	Classroom		Faucet	1.1	Pass	Testing Complete
LW09016	23	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW09017	24	Classroom		Faucet	1.1	Pass	Testing Complete
LW09018	24	Classroom		Bubbler - Indoor	3.5	Pass	Testing Complete
LW09019	16	Classroom		Faucet	3.7	Pass	Testing Complete
LW09021	17	Classroom		Faucet	3.7	Pass	Testing Complete
LW09022	17	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW09023		Break Room		Faucet	1.0	Pass	Testing Complete
LW09024	18	Classroom		Faucet	2.2	Pass	Testing Complete
LW09026	19	Classroom		Faucet	1.7	Pass	Testing Complete
LW09028		Hallway	Right of CR 15	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09029	15	Classroom		Faucet	2.2	Pass	Testing Complete
LW09031	12	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09032	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09033	11	Classroom		Faucet	2.1	Pass	Testing Complete
LW09035	8	Classroom		Faucet	2.2	Pass	Testing Complete
LW09037	6	Classroom		Faucet	1.2	Pass	Testing Complete
LW09038	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09039	9	Classroom		Faucet	5.5	Pass	Testing Complete
LW09044	4	Classroom		Faucet	<1.0	Pass	Testing Complete
LW09045	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09046	2	Classroom		Faucet	1.7	Pass	Testing Complete
LW09047	2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW09048	5	Classroom		Faucet	3.7	Pass	Testing Complete
LW09050		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
LW09051		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
LW09052	1	Special Ed		Faucet	14.2	Pass	Testing Complete
LW09054		Kitchen		Faucet	2.7	Pass	Testing Complete
LW09055		Work Room Administration		Icemaker	<1.0	Pass	Testing Complete
M16044		Kitchen		Faucet	1.9	Pass	Testing Complete
M16045		Kitchen		Faucet	1.6	Pass	Testing Complete
M16046		Kitchen		Faucet	2.9	Pass	Testing Complete
M16053		Staff Development		Faucet	2.6	Pass	Testing Complete
M16099		Break Room Media Center		Faucet	<1.0	Pass	Testing Complete
M16106		Hallway	Across from CR 19	Cooler	<1.0	Pass	Testing Complete
M16107		Hallway	Across from CR 19	Cooler	<1.0	Pass	Testing Complete
M16115	22	Kindergarten		Faucet	3.5	Pass	Testing Complete
M16118	22	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16119	21	Kindergarten		Faucet	1.3	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M16120	21	Kindergarten		Bubbler - Indoor	1.8	Pass	Testing Complete
M16122	20	Kindergarten		Faucet	<1.0	Pass	Testing Complete
M16123	20	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16148		Health Room		Faucet	2.1	Pass	Testing Complete
M16152		Work Room	Inside Admin	Faucet	<1.0	Pass	Testing Complete

\*ppb = parts per billion