

Montgomery County Public Schools Lead in Drinking Water Testing Report

Montgomery Knolls Elementary School
807 Daleview Drive
Silver Spring, MD 20901

Report Date: August 13th, 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	2/25/2020
# of Outlets Tested	78
# 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. Due to the Stay-at-Home Order to combat the spread of COVID-19 (coronavirus), no follow-up samples were collected. 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 Montgomery Knolls ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW00391	In classroom 130	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00392	In classroom 125	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00393	In classroom 125	Classroom Combination Sink	1.1	Pass	N/A	Testing complete
LW00394	In classroom 125	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW00396	In classroom 128	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00397	In classroom 128	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW00398	In classroom 124	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00399	In classroom 124	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00400	In classroom 124	Classroom Combination Drinking Fountain	2.1	Pass	N/A	Testing complete
LW00401	In classroom 123	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00403	In classroom 122	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00404	In classroom 114	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00406	In work room 103B by media center	Classroom Combination Sink	1.1	Pass	N/A	Testing complete
LW00407	In health room 102A	Nurses Office Sink	<1	Pass	N/A	Testing complete
LW00408	In hallway next to 103 - media Cntr	Drinking Fountain	<1	Pass	N/A	Testing complete
LW00409	In hallway next to 103 media Cntr	Drinking Fountain	<1	Pass	N/A	Testing complete
LW00410	In classroom 196	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00709	In break room 186	Teachers Lounge Sink	<1	Pass	N/A	Testing complete
LW00710	In kitchen 163	Kitchen Sink	2.0	Pass	N/A	Testing complete
LW00711	In kitchen 163	Kitchen Sink	<1	Pass	N/A	Testing complete
LW00712	In kitchen 163	Kitchen Sink	<1	Pass	N/A	Testing complete
LW00713	In conference room 170C by special ed	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00714	In classroom 132	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW00715	In classroom 132	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
LW02081	In hallway left of 167	Drinking Fountain	<1	Pass	N/A	Testing complete
LW02082	In hallway left of 167	Drinking Fountain	<1	Pass	N/A	Testing complete
M00610	In work room 100D	Classroom Combination Sink	2.4	Pass	N/A	Testing complete

M00612	In resource 106	Classroom Combination Sink	1.1	Pass	N/A	Testing complete
M00620	In office 118 pep	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M00621	In classroom 120 by lab	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M00628	In classroom 123	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M00642	In classroom 130	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M00644	In classroom 132	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M00646	In music 133	Classroom Combination Sink	3.0	Pass	N/A	Testing complete
M00663	In classroom 188	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M00665	In classroom 190	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M00667	In classroom 173	Classroom Combination Sink	2.0	Pass	N/A	Testing complete
M00669	In classroom 192	Classroom Combination Sink	2.6	Pass	N/A	Testing complete
M00671	In classroom 175	Classroom Combination Sink	2.5	Pass	N/A	Testing complete
M00673	In classroom 194	Classroom Combination Sink	1.2	Pass	N/A	Testing complete
M00677	In classroom 177	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09791	In hallway across from CR151	Drinking Fountain	<1	Pass	N/A	Testing complete
M09792	In hallway near CR 151	Drinking Fountain	<1	Pass	N/A	Testing complete
M09799	In resource 151	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09801	In resource 153	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09803	In resource 157	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09805	In classroom 147	Classroom Combination Sink	4.7	Pass	N/A	Testing complete
M09806	In classroom 147	Classroom Combination Drinking Fountain	1.0	Pass	N/A	Testing complete
M09807	In classroom 150	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09808	In classroom 150	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09812	In classroom 146	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09816	In hallway left of office 152	Drinking Fountain	<1	Pass	N/A	Testing complete
M09817	In hallway left of office 152	Drinking Fountain	<1	Pass	N/A	Testing complete
M09818	In classroom 144	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09819	In classroom 144	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09829	In classroom 140	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09830	In classroom 140	Classroom Combination Drinking Fountain	4.5	Pass	N/A	Testing complete
M09832	In classroom 138	Classroom Combination Sink	<1	Pass	N/A	Testing complete

M09833	In classroom 138	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09835	In classroom 121	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09836	In classroom 121	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09838	In classroom 202	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09839	In classroom 202	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09840	In classroom 210	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09841	In classroom 210	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09850	In classroom 214	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09851	In classroom 214	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09852	In classroom 209	Classroom Combination Sink	3.1	Pass	N/A	Testing complete
M09853	In classroom 209	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09855	In classroom 211	Classroom Combination Sink	2.7	Pass	N/A	Testing complete
M09856	In classroom 211	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09857	In classroom 220	Classroom Combination Sink	5.9	Fail	NC	Remediation Action Plan
M09858	In classroom 220	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing complete
M09859	In classroom 215	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09860	In classroom 215	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09861	In classroom 224	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09863	In hallway near CR 215	Drinking Fountain	<1	Pass	N/A	Testing complete
M09864	In hallway near CR 215	Drinking Fountain	<1	Pass	N/A	Testing complete

NC - Not Collected (No follow-up sample collected due to COVID-19 (Coronavirus) Stay-at-Home Order.)



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

Executive Summary:

Montgomery Knolls Elementary School

807 Daleview Drive
Silver Spring, MD 20901

Date of Test Report:	03/12/2018
Round of Testing:	Initial
# of Outlets Tested:	86
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	6.3

Project Status

Initial testing complete: All results less than 20 ppb.



March 12, 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: Montgomery Knolls Elementary School
807 Daleview Drive
Silver Spring, MD 20901

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 Montgomery Knolls Elementary School, located at 807 Daleview Drive, Silver Spring, MD 20901.

Scope of Services:

PSI conducted lead in water testing at Montgomery Knolls 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 02/07/18 and 02/08/18 to collect samples from 86 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 02/08/18 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

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 Montgomery Knolls Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00391	130	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00392	125	Classroom		Faucet	1.8	Pass	Testing Complete
LW00393	125	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00394	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00395	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00396	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00397	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00398	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00399	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00400	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00401	123	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00403	122	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00404	114	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00405		Hallway	Across From CR 114	Cooler	<1.0	Pass	Testing Complete
LW00407	102A	Health Room		Faucet	1.8	Pass	Testing Complete
LW00408		Hallway	Next To 103 - Media Center	Cooler	1.1	Pass	Testing Complete
LW00409		Hallway	Next To 103 Media Center	Cooler	<1.0	Pass	Testing Complete
LW00410	196	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00411	224	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00709	186	Break Room		Faucet	<1.0	Pass	Testing Complete
LW00710	163	Kitchen		Faucet	2.4	Pass	Testing Complete
LW00711	163	Kitchen		Faucet	4.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00712	163	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00713	170C	Conference Room Special Ed		Faucet	<1.0	Pass	Testing Complete
LW00714	132	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00715	132	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
LW02081		Hallway	Left Of CR 167	Cooler	<1.0	Pass	Testing Complete
LW02082		Hallway	Left Of CR 167	Cooler	<1.0	Pass	Testing Complete
M00610	100D	Work Room		Faucet	3.6	Pass	Testing Complete
M00612	106	Resource		Faucet	2.4	Pass	Testing Complete
M00620	118	Office	PEP	Faucet	<1.0	Pass	Testing Complete
M00621	120	Classroom		Faucet	1.2	Pass	Testing Complete
M00628	123	Classroom		Faucet	<1.0	Pass	Testing Complete
M00642	130	Classroom		Faucet	<1.0	Pass	Testing Complete
M00644	132	Classroom		Faucet	1.5	Pass	Testing Complete
M00646	133	Music		Faucet	1.6	Pass	Testing Complete
M00663	188	Classroom		Faucet	1.6	Pass	Testing Complete
M00665	190	Classroom		Faucet	<1.0	Pass	Testing Complete
M00667	173	Classroom		Faucet	2.6	Pass	Testing Complete
M00669	192	Classroom		Faucet	1.8	Pass	Testing Complete
M00671	175	Classroom		Faucet	1	Pass	Testing Complete
M00673	194	Classroom		Faucet	1.9	Pass	Testing Complete
M00677	177	Classroom		Faucet	2.7	Pass	Testing Complete
M09791		Hallway	Across From CR 151	Cooler	<1.0	Pass	Testing Complete
M09792		Hallway	Near CR 151	Cooler	<1.0	Pass	Testing Complete
M09799	151	Resource		Faucet	<1.0	Pass	Testing Complete
M09800	151	Resource		Bubbler - Indoor	4.9	Pass	Testing Complete
M09801	153	Resource		Faucet	2.7	Pass	Testing Complete
M09802	153	Resource		Bubbler - Indoor	6.3	Pass	Testing Complete
M09803	157	Resource		Faucet	2.9	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M09804	157	Resource		Bubbler - Indoor	3	Pass	Testing Complete
M09805	147	Classroom		Faucet	<1.0	Pass	Testing Complete
M09806	147	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09807	150	Classroom		Faucet	<1.0	Pass	Testing Complete
M09808	150	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M09810	143	Art		Faucet	<1.0	Pass	Testing Complete
M09811	143	Art		Faucet	<1.0	Pass	Testing Complete
M09812	146	Classroom		Faucet	3.7	Pass	Testing Complete
M09813	146	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M09816		Hallway	Left Of Office 152	Cooler	<1.0	Pass	Testing Complete
M09817		Hallway	Left Of Office 152	Cooler	<1.0	Pass	Testing Complete
M09818	144	Classroom		Faucet	<1.0	Pass	Testing Complete
M09819	144	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09829	140	Classroom		Faucet	<1.0	Pass	Testing Complete
M09830	140	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09832	138	Classroom		Faucet	<1.0	Pass	Testing Complete
M09833	138	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M09835	121	Classroom		Faucet	<1.0	Pass	Testing Complete
M09836	121	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M09838	202	Classroom		Faucet	<1.0	Pass	Testing Complete
M09839	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09840	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M09841	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09850	214	Classroom		Faucet	1.7	Pass	Testing Complete
M09851	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09852	209	Classroom		Faucet	1.4	Pass	Testing Complete
M09853	209	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
M09855	211	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M09856	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09857	220	Classroom		Faucet	<1.0	Pass	Testing Complete
M09858	220	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09859	215	Classroom		Faucet	<1.0	Pass	Testing Complete
M09860	215	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09861	224	Classroom		Faucet	<1.0	Pass	Testing Complete
M09863		Hallway	Near CR 215	Cooler	<1.0	Pass	Testing Complete
M09864		Hallway	Near CR 215	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion