

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**S. Christa McAuliffe Elementary School  
12500 Wisteria Drive  
Germantown, MD 20874**

**Report Date: March 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	11/23/2021
# of Outlets Tested	97
# of Outlets $\geq$ 5 ppb	21

## 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 S. Christa McAuliffe ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
L11119	In hallway adjacent to room 108	Bottle Filler	<1	Pass	N/A	Testing Complete
LW05938	In health room adjacent to administration	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW05939	In classroom 2	Classroom Combination Sink	3.8	Pass	N/A	Testing Complete
LW05940	In classroom 2	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05941	In classroom 4	Classroom Combination Sink	4.4	Pass	N/A	Testing Complete
LW05942	In classroom 4	Classroom Combination Drinking Fountain	2.6	Pass	N/A	Testing Complete
LW05943	In classroom 1	Classroom Combination Sink	2.3	Pass	N/A	Testing Complete
LW05945	In classroom 3	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
LW05947	In classroom 5	Classroom Sink	2.0	Pass	N/A	Testing Complete
LW05949	In classroom 6	Classroom Combination Drinking Fountain	7.1	Fail	19.1	Testing Complete
LW05950	In classroom 7	Classroom Sink	1.4	Pass	N/A	Testing Complete
LW05951	In classroom 8	Classroom Combination Drinking Fountain	4.2	Pass	N/A	Testing Complete
LW05952	In classroom 10	Classroom Combination Drinking Fountain	4.1	Pass	N/A	Testing Complete
LW05953	In classroom 12	Classroom Combination Drinking Fountain	4.5	Pass	N/A	Testing Complete
LW05954	In classroom 14	Classroom Combination Drinking Fountain	6.1	Fail	22.1	Testing Complete
LW05955	In classroom 16	Classroom Combination Drinking Fountain	4.6	Pass	N/A	Testing Complete
LW05956	In classroom 18	Classroom Combination Drinking Fountain	8.8	Fail	3.3	Testing Complete
LW05957	In classroom 25	Classroom Combination Drinking Fountain	1.3	Pass	N/A	Testing Complete
LW05958	In classroom 26	Classroom Combination Drinking Fountain	3.6	Pass	N/A	Testing Complete
LW06141	In classroom 27	Classroom Combination Drinking Fountain	2.7	Pass	N/A	Testing Complete
LW06142	In classroom 29	Classroom Combination Drinking Fountain	5.8	Fail	5.2	Testing Complete
LW06143	In classroom 30	Classroom Combination Drinking Fountain	3.1	Pass	N/A	Testing Complete
LW06144	In classroom 31	Classroom Combination Drinking Fountain	6.1	Fail	1.8	Testing Complete
LW06145	In classroom 33	Classroom Combination Drinking Fountain	23.1	Fail	29.8	Testing Complete
LW06146	In classroom 34	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW06147	In classroom 36	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06148	In classroom 35	Classroom Combination Drinking Fountain	5.5	Fail	<1	Testing Complete
LW06149	In classroom 37	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW06150	In classroom 38	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06151	In classroom 38	Classroom Combination Sink	3.8	Pass	N/A	Testing Complete

LW06152	In classroom 40	Classroom Combination Sink	2.6	Pass	N/A	Testing Complete
LW06153	In classroom 40	Classroom Combination Drinking Fountain	1.6	Pass	N/A	Testing Complete
LW06155	In classroom 42	Classroom Combination Drinking Fountain	3.1	Pass	N/A	Testing Complete
LW06156	In classroom 42	Classroom Combination Sink	3.5	Pass	N/A	Testing Complete
LW06157	In classroom 43	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06158	In hallway adjacent to music room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06159	In hallway adjacent to administration	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06160	In hallway adjacent to room 34	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11108	In room 102	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW11109	In room 103	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW11110	In room 103	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
LW11111	In room 104	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW11112	In room 104	Classroom Combination Drinking Fountain	2.9	Pass	N/A	Testing Complete
LW11113	In room 105	Classroom Combination Sink	2.5	Pass	N/A	Testing Complete
LW11114	In room 105	Classroom Combination Drinking Fountain	2.0	Pass	N/A	Testing Complete
LW11115	In room 106	Classroom Combination Sink	8.0	Fail	<1	Testing Complete
LW11116	In room 106	Classroom Combination Drinking Fountain	2.5	Pass	N/A	Testing Complete
LW11117	In room 108	Classroom Combination Sink	2.9	Pass	N/A	Testing Complete
LW11118	In room 108	Classroom Combination Drinking Fountain	7.9	Fail	<1	Testing Complete
LW11120	In hallway adjacent to room 108	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11121	In hallway adjacent to room 108	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11122	In room 109	Classroom Combination Sink	10.8	Fail	<1	Testing Complete
LW11123	In room 109	Classroom Combination Drinking Fountain	7.2	Fail	1.9	Testing Complete
LW11124	In room 210	Classroom Sink	<1	Pass	N/A	Testing Complete
LW11125	In hallway adjacent to room 207 and 208	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11126	In hallway adjacent to room 207 and 208	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11127	In hallway adjacent to 207 and 208	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11128	In room 206	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
LW11129	In room 206	Classroom Combination Drinking Fountain	1.9	Pass	N/A	Testing Complete
LW11130	In room 205	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW11131	In room 205	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11132	In room 204	Classroom Combination Sink	2.4	Pass	N/A	Testing Complete
LW11133	In room 204	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

LW11134	In room 203	Classroom Combination Sink	2.7	Pass	N/A	Testing Complete
LW11135	In room 203	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11136	In room 202	Classroom Combination Sink	10.8	Fail	<1	Testing Complete
LW11137	In room 202	Classroom Combination Drinking Fountain	6.6	Fail	<1	Testing Complete
LW11138	In room 201	Classroom Combination Drinking Fountain	3.1	Pass	N/A	Testing Complete
LW11139	In room 201	Classroom Combination Drinking Fountain	3.0	Pass	N/A	Testing Complete
LW11140	In room 32	Classroom Combination Drinking Fountain	7.7	Fail	<1	Testing Complete
M15261	In kitchen	Kitchen Sink	4.3	Pass	N/A	Testing Complete
M15262	In kitchen	Kitchen Sink	1.9	Pass	N/A	Testing Complete
M15263	In kitchen	Kitchen Sink	1.6	Pass	N/A	Testing Complete
M15264	In kitchen	Kitchen Sink	1.9	Pass	N/A	Testing Complete
M15285	In classroom 43	Classroom Combination Sink	1.8	Pass	N/A	Testing Complete
M15291	In classroom 37	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
M15299	In classroom 36	Classroom Combination Sink	3.6	Pass	N/A	Testing Complete
M15301	In room 33	Classroom Combination Sink	20.7	Fail	20.2	Testing Complete
M15303	In classroom 34	Classroom Combination Drinking Fountain	5.0	Fail	<1	Testing Complete
M15305	In room 32	Classroom Combination Sink	4.0	Pass	N/A	Testing Complete
M15307	In classroom 31	Classroom Combination Sink	4.1	Pass	N/A	Testing Complete
M15309	In classroom 30	Classroom Combination Sink	95.2	Fail	<1	Testing Complete
M15311	In classroom 29	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
M15314	In classroom 28	Classroom Combination Drinking Fountain	3.2	Pass	N/A	Testing Complete
M15315	In classroom 27	Classroom Combination Sink	1.9	Pass	N/A	Testing Complete
M15317	In classroom 26	Classroom Combination Drinking Fountain	1.9	Pass	N/A	Testing Complete
M15319	In classroom 25	Classroom Combination Sink	3.9	Pass	N/A	Testing Complete
M15329	In work room adjacent to media center	Classroom Sink	<1	Pass	N/A	Testing Complete
M15333	In classroom 18	Classroom Combination Sink	4.2	Pass	N/A	Testing Complete
M15335	In classroom 16	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M15340	In classroom 14	Classroom Combination Sink	7.2	Fail	<1	Testing Complete
M15342	In classroom 12	Classroom Combination Sink	4.5	Pass	N/A	Testing Complete
M15344	In classroom 10	Classroom Combination Sink	3.4	Pass	N/A	Testing Complete
M15352	In classroom 8	Classroom Combination Sink	6.7	Fail	<1	Testing Complete
M15356	In classroom 6	Classroom Combination Sink	3.2	Pass	N/A	Testing Complete
M15365	In counselor	Classroom Sink	27.2	Fail	<1	Testing Complete

M15368	In work room adjacent to administration	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
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## Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 22, 2018

### Executive Summary:

#### S. Christa McAuliffe Elementary School

12500 Wisteria Drive

Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	69
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	12.6

### Project Status:

**Testing Complete: All results less than 20 ppb.**





May 22, 2018

Mr. Brian Mullikin, MS  
Environmental Team Leader  
Montgomery County Public Schools  
Division of Maintenance  
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634193

**Location: S. Christa McAuliffe Elementary School**

12500 Wisteria Drive  
Germantown, Maryland 20874

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of Initial lead in water testing at S. Christa McAuliffe Elementary School, located at 12500 Wisteria Drive in Germantown, Maryland 20874.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at S. Christa McAuliffe 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.

KCI visited the site on 4/18/2018 and 4/19/2018 to collect samples from 69 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.

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## **RESULTS**

There are no results of the lead in water analysis at or above 20 parts per billion (ppb). The lead in water sample results for sample collection date 4/19/2018 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,  
KCI Technologies, Inc.



Kamau McAbee  
MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

# ATTACHMENT A

## Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

**Contractor:** KCI Technologies, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Sample Results for S. Christa McAuliffe Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05938		Health Room Administration		Faucet	1.5	Pass	Testing Complete
LW05939	2	Classroom		Faucet	2.1	Pass	Testing Complete
LW05940	2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05941	4	Classroom		Faucet	2.2	Pass	Testing Complete
LW05942	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05943	1	Classroom		Faucet	1.0	Pass	Testing Complete
LW05944	1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05945	3	Classroom		Faucet	2.8	Pass	Testing Complete
LW05946	3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05947	5	Classroom		Faucet	1.4	Pass	Testing Complete
LW05948	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05949	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05950	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05951	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05952	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05953	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05954	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05955	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05956	18	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW05957	25	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05958	26	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW06141	27	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06142	29	Classroom		Bubbler - Indoor	3.6	Pass	Testing Complete
LW06144	31	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06146	34	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06147	36	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06148	35	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW06149	37	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06150	38	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06151	38	Classroom		Faucet	1.6	Pass	Testing Complete
LW06152	40	Classroom		Faucet	1.8	Pass	Testing Complete
LW06153	40	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06154	41	Dual Purpose Room		Bubbler - Indoor	8.4	Pass	Testing Complete
LW06155	42	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06156	42	Classroom		Faucet	2.1	Pass	Testing Complete
LW06157	43	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06158		Hallway Music	Across From	Cooler	<1.0	Pass	Testing Complete
LW06159		Hallway Administration	Across From	Cooler	<1.0	Pass	Testing Complete
LW06160	34	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M15261		Kitchen Cafeteria	in cafeteria	Faucet	3.3	Pass	Testing Complete
M15262		Kitchen		Faucet	3.3	Pass	Testing Complete
M15263		Kitchen Cafeteria	in cafeteria	Faucet	2.8	Pass	Testing Complete
M15264		Kitchen Cafeteria	in cafeteria	Faucet	3.2	Pass	Testing Complete
M15283	41	Dual Purpose Room		Faucet	1.2	Pass	Testing Complete
M15285	43	Classroom		Faucet	1.6	Pass	Testing Complete
M15291	37	Classroom		Faucet	1.6	Pass	Testing Complete
M15297	35	Classroom		Faucet	5.3	Pass	Testing Complete
M15299	36	Classroom		Faucet	1.5	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M15301	33	Classroom		Faucet	12.6	Pass	Testing Complete
M15303	34	Classroom		Faucet	2.2	Pass	Testing Complete
M15307	31	Classroom		Faucet	2.3	Pass	Testing Complete
M15309	30	Classroom		Faucet	3.5	Pass	Testing Complete
M15311	29	Classroom		Faucet	1.4	Pass	Testing Complete
M15313	28	Classroom		Faucet	8.5	Pass	Testing Complete
M15314	28	Classroom		Bubbler - Indoor	3.1	Pass	Testing Complete
M15315	27	Classroom		Faucet	1.7	Pass	Testing Complete
M15317	26	Classroom		Faucet	3.0	Pass	Testing Complete
M15319	25	Classroom		Faucet	2.6	Pass	Testing Complete
M15329		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M15333	18	Classroom		Faucet	<1.0	Pass	Testing Complete
M15335	16	Classroom		Faucet	<1.0	Pass	Testing Complete
M15340	14	Classroom		Faucet	1.4	Pass	Testing Complete
M15342	12	Classroom		Faucet	1.7	Pass	Testing Complete
M15344	10	Classroom		Faucet	<1.0	Pass	Testing Complete
M15352	8	Classroom		Faucet	1.8	Pass	Testing Complete
M15354	7	Classroom		Faucet	1.7	Pass	Testing Complete
M15356	6	Classroom		Faucet	1.5	Pass	Testing Complete
M15365		Counselor		Faucet	2.4	Pass	Testing Complete
M15368		Work Room Administration		Faucet	1.0	Pass	Testing Complete

\*PPB = parts per billion