

Montgomery County Public Schools Lead in Drinking Water Testing Report

Dr. Charles R. Drew Elementary School
1200 Swingingdale Drive
Silver Spring, MD 20905

Report Date: February 19th, 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	11/03/2021
# of Outlets Tested	66
# of Outlets \geq 5 ppb	4

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 Dr. Charles R. Drew ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW05777	In health room	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW05778	In hallway across from classroom 16	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05790	In classroom 15	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW05791	In classroom 15	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05792	In classroom 20	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW05793	In classroom 20	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05794	In classroom 14	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW05796	In classroom 13	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW05797	In classroom 13	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05798	In classroom 18	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW05799	In classroom 18	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05800	In classroom 19	Classroom Combination Sink	1.8	Pass	N/A	Testing Complete
LW05801	In classroom 19	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05802	In classroom 17	Classroom Combination Sink	1.9	Pass	N/A	Testing Complete
LW05803	In classroom 17	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05804	In classroom 12	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW05805	In classroom 12	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05806	In classroom 1	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05810	In classroom 6	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05811	In classroom 3	Classroom Sink	1.1	Pass	N/A	Testing Complete
LW05812	In classroom 4	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
LW05813	In classroom 4	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW05814	In classroom 7	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW05815	In classroom 7	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05816	In classroom 5	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW05817	In classroom 5	Classroom Combination Drinking Fountain	8.7	Fail	<1	Testing Complete
LW05818	In classroom 8	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW05819	In classroom 8	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05820	In classroom 9	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW05821	In classroom 9	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

LW05822	In classroom 10	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW05823	In classroom 10	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05824	In classroom 11	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW05825	In classroom 11	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05827	In classroom K4	Classroom Sink	1.4	Pass	N/A	Testing Complete
LW05828	In classroom K3	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06098	In hallway adjacent to room 22	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06099	In classroom 21	Classroom Sink	1.3	Pass	N/A	Testing Complete
LW06100	In classroom 16	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
LW06101	In classroom 16	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06128	In classroom K3	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06129	In hallway across from K4	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06130	In hallway across from K4	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06133	In classroom K2	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
LW06134	In classroom K2	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06136	In classroom K1	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06137	In kitchen	Kitchen Sink	5.5	Fail	<1	Testing Complete
LW06138	In kitchen	Kitchen Sink	2.8	Pass	N/A	Testing Complete
LW06139	In hallway across from 5a	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06140	In hallway across from 5a	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37363	In hallway adjacent to classroom 5	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37364	In hallway adjacent to classroom 5	Drinking Fountain	<1	Pass	N/A	Testing Complete
M37381	In classroom 1	Classroom Combination Sink	3.3	Pass	N/A	Testing Complete
M37384	In staff lounge 5A	Classroom Sink	<1	Pass	N/A	Testing Complete
M37385	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M37405	In work room by admin	Classroom Sink	1.4	Pass	N/A	Testing Complete
M37408	In classroom K1	Classroom Sink	8.1	Fail	<1	Testing Complete
M37412	In classroom K2	Classroom Sink	2.6	Pass	N/A	Testing Complete
M37418	In dual purpose room adjacent to K2	Classroom Sink	14.4	Fail	<1	Testing Complete
M37424	In classroom K3	Classroom Sink	1.6	Pass	N/A	Testing Complete
M37429	In classroom K4	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M37435	In office by media center	Classroom Sink	2.7	Pass	N/A	Testing Complete
M37448	In classroom 29	Classroom Sink	2.4	Pass	N/A	Testing Complete

M37450	In break room 24	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
M37453	In staff development 22	Classroom Sink	1.3	Pass	N/A	Testing Complete
M37467	In hallway across from CR 16	Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 24, 2018

Executive Summary:

Dr. Charles R. Drew Elementary School

1200 Swingingdale Drive
Silver Spring, Maryland 20904

Round of Testing:	Initial
# of Outlets Tested:	74
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	17.5

Project Status:

Testing Complete: All results less than 20 ppb.



May 24, 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: Dr. Charles R. Drew Elementary School

1200 Swingingdale Drive
Silver Spring, Maryland 20904

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 Dr. Charles R. Drew Elementary School, located at 1200 Swingingdale Drive in Silver Spring, Maryland 20904.

SCOPE OF SERVICES

KCI conducted lead in water testing at Dr. Charles R. Drew 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 74 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 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

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Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for Dr. Charles R. Drew Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05777		Health Room		Faucet	<1.0	Pass	Testing Complete
LW05778		Hallway	Across From Cr 16	Cooler	<1.0	Pass	Testing Complete
LW05790	15	Classroom		Faucet	2.6	Pass	Testing Complete
LW05791	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05792	20	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05793	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05794	14	Classroom		Faucet	1.6	Pass	Testing Complete
LW05795	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05796	13	Classroom		Faucet	1.2	Pass	Testing Complete
LW05797	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05798	18	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05799	18	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05800	19	Classroom		Faucet	1.4	Pass	Testing Complete
LW05801	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05802	17	Classroom		Faucet	2.4	Pass	Testing Complete
LW05803	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05804	12	Classroom		Faucet	1.4	Pass	Testing Complete
LW05805	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05806	1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05807	2	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05809	6	Classroom		Faucet	1.2	Pass	Testing Complete
LW05810	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05811	3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05812	4	Classroom		Faucet	1.1	Pass	Testing Complete
LW05813	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05814	7	Classroom		Faucet	7.4	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05815	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05816	5	Classroom		Faucet	1.6	Pass	Testing Complete
LW05817	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05818	8	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05819	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05820	9	Classroom		Faucet	1.5	Pass	Testing Complete
LW05821	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05822	10	Classroom		Faucet	1.1	Pass	Testing Complete
LW05823	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05824	11	ESOL		Faucet	1.6	Pass	Testing Complete
LW05825	11	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05826	K4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05827	K4	Classroom		Faucet	1.7	Pass	Testing Complete
LW05828	K3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06098		Hallway	Across From Cr 21	Cooler	<1.0	Pass	Testing Complete
LW06099	21	Classroom		Faucet	1.2	Pass	Testing Complete
LW06100	16	Classroom		Faucet	1.9	Pass	Testing Complete
LW06101	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06128	K3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06129		Hallway	Across From K4	Cooler	<1.0	Pass	Testing Complete
LW06130		Hallway	Across From K4	Cooler	<1.0	Pass	Testing Complete
LW06132		Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06133	K2	Classroom		Faucet	2.8	Pass	Testing Complete
LW06134	K2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06135	K1	Classroom		Faucet	3.2	Pass	Testing Complete
LW06136	K1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06137		Kitchen		Faucet	2.3	Pass	Testing Complete
LW06138		Kitchen		Faucet	3.7	Pass	Testing Complete
LW06139		Hallway	Across From 5a	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06140		Hallway	Across From 5a	Cooler	<1.0	Pass	Testing Complete
M37363		Hallway	Across from CR 5	Cooler	<1.0	Pass	Testing Complete
M37364		Hallway	Across from CR 5	Cooler	<1.0	Pass	Testing Complete
M37381	1	Classroom		Faucet	4.4	Pass	Testing Complete
M37384	5A	Classroom	Near APR Rm	Faucet	2.8	Pass	Testing Complete
M37385		Kitchen		Faucet	1.2	Pass	Testing Complete
M37402		Music	Across From Mpr	Faucet	4.5	Pass	Testing Complete
M37405		Work Room Admin		Faucet	1.1	Pass	Testing Complete
M37408	K1	Classroom		Faucet	17.5	Pass	Testing Complete
M37412	K2	Classroom		Faucet	3.5	Pass	Testing Complete
M37417		Music		Faucet	5.4	Pass	Testing Complete
M37418		Dual Purpose Room		Faucet	1.5	Pass	Testing Complete
M37424	K3	Classroom		Faucet	2.7	Pass	Testing Complete
M37429	K4	Classroom		Faucet	1.1	Pass	Testing Complete
M37435		Office Media Center		Faucet	2.8	Pass	Testing Complete
M37448	29	Reading		Faucet	<1.0	Pass	Testing Complete
M37450	24	Break Room		Faucet	1.1	Pass	Testing Complete
M37453	22	Staff Development		Faucet	<1.0	Pass	Testing Complete
M37467		Hallway	Across from CR 16	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion