

Montgomery County Public Schools Lead in Drinking Water Testing Report

Brookhaven Elementary School
4610 Renn Street
Rockville, MD 20853

Report Date: April 8th, 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	2/7/2020
# of Outlets Tested	75
# 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 Brookhaven ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW02603	In health room by administration	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW02604	In other (see location notes) inside of health Bath	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW02605	In office by administration	Classroom Sink	<1	Pass	N/A	Testing Complete
LW02606	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02607	In hallway across from office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02608	In hallway across from 129	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02609	In media center office 131 by media center	Teachers Lounge Sink	7.8	Fail	<1	Remediation Action Plan
LW02610	In break room	Teachers Lounge Sink	5.4	Fail	<1	Remediation Action Plan
LW02612	In classroom 118 by classroom	Classroom Sink	<1	Pass	N/A	Testing Complete
LW02613	In classroom 131 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02614	In classroom 131 by classroom	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02615	In classroom 133 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02616	In classroom 133 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02618	In therapy 132 by therapy	Classroom Combination Sink	3.8	Pass	N/A	Testing Complete
LW02619	In therapy 132 by therapy	Classroom Combination Drinking Fountain	2.7	Pass	N/A	Testing Complete
LW02620	In classroom 135 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02621	In classroom 135 by classroom	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02622	In classroom 135 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02623	In classroom 137 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02625	In classroom 137 by classroom	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02626	In office 139 by office	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02628	In office 138 by office	Classroom Combination Sink	2.1	Pass	N/A	Testing Complete
LW02629	In office 138 by office	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW02630	In office 136 by office	Classroom Sink	<1	Pass	N/A	Testing Complete
LW02631	In classroom 163 by classroom	Classroom Sink	2.7	Pass	N/A	Testing Complete
LW02632	In classroom 161 by classroom	Classroom Sink	<1	Pass	N/A	Testing Complete
LW02633	In hallway outside of gym (164)	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02634	In hallway outside of gym (164)	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02635	In classroom 110 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

LW02637	In classroom 109 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02639	In classroom 108 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02641	In classroom 130 by classroom	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02644	In hallway 202 across from CR 202	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02645	In hallway 211 across from CR 211	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02646	In hallway 101 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02647	In classroom 105	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02651	In classroom 103	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02652	In classroom inside of art room 103	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02826	In hallway outside of CR 222	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02827	In hallway outside of CR 222	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02828	In classroom 222	Classroom Combination Sink	3.8	Pass	N/A	Testing Complete
LW02829	In classroom 222	Classroom Combination Drinking Fountain	5.4	Fail	<1	Remediation Action Plan
LW02830	In classroom 224	Classroom Combination Sink	2.6	Pass	N/A	Testing Complete
LW02832	In classroom 226	Classroom Combination Sink	5.1	Fail	<1	Remediation Action Plan
LW02834	In classroom 232	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02835	In classroom 230	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02836	In classroom 216	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02838	In classroom 213	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02839	In classroom 213	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02840	In classroom 211	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02841	In classroom 211	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02842	In classroom 210	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02844	In classroom 209	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02846	In classroom 208	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW02847	In classroom 208	Classroom Combination Drinking Fountain	3.6	Pass	N/A	Testing Complete
LW02848	In classroom 204	Classroom Combination Sink	4.1	Pass	N/A	Testing Complete
LW02849	In classroom 204	Classroom Combination Drinking Fountain	1.3	Pass	N/A	Testing Complete
M02398	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M02399	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M02400	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09648	In classroom 130 by classroom	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

M09660	In hallway across from CR 135	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09661	In hallway across from CR 135	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09674	In classroom 230	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09675	In classroom 231	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09676	In classroom 231	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09677	In classroom 232	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09679	In classroom 233	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09680	In classroom 233	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09681	In classroom 234	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09682	In classroom 234	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09689	In classroom 235	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09690	In classroom 235	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09691	In classroom 237	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M09692	In classroom 237	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Brookhaven Elementary School

4610 Renn Street

Rockville, Maryland 20853

Date of Test Report:	3/19/2018
Round of Testing:	Initial
# of Outlets Tested:	41
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	6.4

Project Status:

Initial testing complete: All results less than 20 ppb.



3/19/2018

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

Re: Drinking Water Testing

KCI Job #1214634186

Location: Brookhaven Elementary School

4610 Renn Street
Rockville, Maryland 20853

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 Brookhaven Elementary School, located at 4610 Renn Street in Rockville, Maryland 20853.

SCOPE OF SERVICES

KCI conducted lead in water testing at Brookhaven 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 2/1/2018 and 2/2/2018 to collect samples from 41 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 2/2/2018 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 Brookhaven Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02635	110	Classroom Classroom		Faucet	<1.0		Testing Complete
LW02637	109	Classroom Classroom		Faucet	<1.0		Testing Complete
LW02638	109	Classroom Classroom		Bubbler - Indoor	<1.0		Testing Complete
LW02639	108	Classroom Classroom		Faucet	1.2		Testing Complete
LW02644	202	Hallway	Across From Cr 202	Cooler	<1.0		Testing Complete
LW02646	101	Hallway	Across From	Cooler	<1.0		Testing Complete
LW02647	105	Classroom		Faucet	<1.0		Testing Complete
LW02649	101	Classroom		Faucet	5.7		Testing Complete
LW02651	103	Classroom		Faucet	<1.0		Testing Complete
LW02652	103	Classroom	Inside Of Art Room	Bubbler - Indoor	1		Testing Complete
LW02826		Hallway	Outside Of Cr 222	Cooler	<1.0		Testing Complete
LW02827		Hallway	Outside Of Cr 222	Cooler	<1.0		Testing Complete
LW02828	222	Classroom		Faucet	2.2		Testing Complete
LW02829	222	Classroom		Bubbler - Indoor	<1.0		Testing Complete
LW02830	224	Classroom		Faucet	1.3		Testing Complete
LW02832	226	Classroom		Faucet	3.4		Testing Complete
LW02834	232	Classroom		Bubbler - Indoor	<1.0		Testing Complete
LW02835	230	Classroom		Faucet	<1.0		Testing Complete
LW02836	216	Classroom		Faucet	<1.0		Testing Complete
LW02838	213	Classroom		Faucet	3.1		Testing Complete
LW02839	213	Classroom		Bubbler - Indoor	3.6		Testing Complete
LW02840	211	Classroom		Faucet	1.4		Testing Complete
LW02841	211	Classroom		Bubbler - Indoor	<1.0		Testing Complete
LW02842	210	Classroom		Faucet	<1.0		Testing Complete
LW02844	209	Classroom		Faucet	<1.0		Testing Complete
LW02845	209	Classroom		Bubbler - Indoor	<1.0		Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02846	208	Classroom		Faucet	<1.0		Testing Complete
LW02848	204	Classroom		Faucet	2.4		Testing Complete
LW02850	205	Classroom		Faucet	6.4		Testing Complete
M09674	230	Classroom		Bubbler - Indoor	<1.0		Testing Complete
M09675	231	Classroom		Faucet	<1.0		Testing Complete
M09676	231	Classroom		Bubbler - Indoor	<1.0		Testing Complete
M09677	232	Classroom		Faucet	<1.0		Testing Complete
M09679	233	Classroom		Faucet	<1.0		Testing Complete
M09680	233	Classroom		Bubbler - Indoor	<1.0		Testing Complete
M09681	234	Classroom		Faucet	1		Testing Complete
M09682	234	Classroom		Bubbler - Indoor	<1.0		Testing Complete
M09689	235	Classroom		Faucet	<1.0		Testing Complete
M09690	235	Classroom		Bubbler - Indoor	<1.0		Testing Complete
M09691	237	Classroom		Faucet	1.7		Testing Complete
M09692	237	Classroom		Bubbler - Indoor	<1.0		Testing Complete

*PPB = parts per billion