

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Bells Mill Elementary School
8225 Bells Mill Road
Potomac, MD 20854**

Report Date: March 30th, 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	3/11/2020
# of Outlets Tested	80
# 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 Bells Mill ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03192	In kitchen 160A	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03193	In work room 100F	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW03194	In break room 108 by office	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW03195	In classroom 120	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
LW03196	In classroom 120	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03197	In classroom 124	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03198	In classroom 124	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03199	In classroom 121	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03200	In classroom 121	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03201	In classroom 128	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03202	In classroom 128	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03203	In classroom 132	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03204	In classroom 125	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03205	In classroom 129	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03206	In classroom 129	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03207	In classroom 148	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03208	In classroom 153	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03209	In classroom 153	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03210	In classroom 150	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03211	In classroom 155	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03212	In classroom 154	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03213	In classroom 159	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03214	In classroom 159	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03216	In art 163	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03217	In classroom 163	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03218	In classroom 164	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03219	In classroom 164	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

LW03220	In health room 102	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW03221	In classroom 229	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03222	In classroom 229	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03223	In classroom 233	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03224	In classroom 236	Classroom Combination Sink	1.0	Pass	N/A	Testing Complete
LW03225	In classroom 236	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03226	In classroom 235	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03227	In classroom 239	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03228	In classroom 239	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03502	In classroom 240	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW03503	In classroom 240	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03504	In classroom 209	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03505	In classroom 209	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03506	In classroom 213	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03507	In classroom 217	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03508	In classroom 212	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03509	In classroom 219	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW03510	In classroom 219	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03511	In classroom 214	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03512	In classroom 223	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03513	In classroom 218	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M50007	In classroom 218	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
M50008	In classroom 214	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M50011	In classroom 223	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M50015	In classroom 217	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M50017	In classroom 212	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
M50019	In classroom 213	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
M50026	In hallway across from CR 209	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50027	In hallway across from CR 209	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50030	In office 226 by media center	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete

M50031	In hallway hall by 228	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50032	In hallway hall by 228	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50043	In classroom 233	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M50047	In classroom 235	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
M50058	In classroom 125	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
M50061	In classroom 132	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M50079	In hallway hall near 114	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50081	In hallway hall near 114	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50093	In classroom 135	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M50094	In classroom 135	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
M50097	In classroom 154	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M50101	In classroom 150	Classroom Sink	<1	Pass	N/A	Testing Complete
M50102	In classroom 155	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M50104	In classroom 148	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M50115	In classroom 149	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M50116	In classroom 149	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
M50117	In hallway across from CR 149	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50118	In hallway across from CR 149	Drinking Fountain	<1	Pass	N/A	Testing Complete
M50124	In kitchen 160A	Kitchen Sink	<1	Pass	N/A	Testing Complete
M50125	In kitchen 160A	Kitchen Sink	1.2	Pass	N/A	Testing Complete
M50127	In music 165	Classroom Sink	<1	Pass	N/A	Testing Complete
M50128	In music 103	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M50129	In music 103	Classroom Combination Sink	7.5	Fail	NC	Remediation Action Form

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:

Bells Mill Elementary School

8225 Bells Mill Road

Potomac, Maryland 20854

Date of Test Report:	4/13/2018
Round of Testing:	Initial
# of Outlets Tested:	83
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	12.0

Project Status:

Initial testing complete: All results less than 20 ppb.



4/13/2018

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: Bells Mill Elementary School

8225 Bells Mill Road
Potomac, Maryland 20854

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 Bells Mill Elementary School, located at 8225 Bells Mill Road in Potomac, Maryland 20854.

SCOPE OF SERVICES

KCI conducted lead in water testing at Bells Mill 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 3/12/2018 and 3/13/2018 to collect samples from 83 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 3/13/2018 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 Bells Mill Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03192	160A	Kitchen		Faucet	1.3	Pass	Testing Complete
LW03193	100F	Work Room		Faucet	<1.0	Pass	Testing Complete
LW03194	108	Break Room Office		Faucet	<1.0	Pass	Testing Complete
LW03195	120	Classroom		Faucet	1.1	Pass	Testing Complete
LW03196	120	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03197	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03198	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03199	121	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03200	121	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03201	128	Classroom		Faucet	2.4	Pass	Testing Complete
LW03202	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03203	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03204	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03205	129	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03206	129	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03207	148	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03208	153	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03209	153	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03210	150	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03211	155	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03212	154	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03213	159	Classroom		Faucet	1.1	Pass	Testing Complete
LW03214	159	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03215	163	Art		Faucet	<1.0	Pass	Testing Complete
LW03216	163	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03217	163	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03218	164	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03219	164	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03220	102	Health Room		Faucet	<1.0	Pass	Testing Complete
LW03221	229	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03222	229	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03223	233	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03224	236	Classroom		Faucet	1.6	Pass	Testing Complete
LW03225	236	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03226	235	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03227	239	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03228	239	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03502	240	Classroom		Faucet	2.7	Pass	Testing Complete
LW03503	240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03504	209	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03505	209	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03506	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03507	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03508	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03509	219	Classroom		Faucet	2.6	Pass	Testing Complete
LW03510	219	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03511	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03512	223	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03513	218	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M50007	218	Classroom		Faucet	3.2	Pass	Testing Complete
M50008	214	Classroom		Faucet	<1.0	Pass	Testing Complete
M50011	223	Classroom		Faucet	<1.0	Pass	Testing Complete
M50015	217	Classroom		Faucet	<1.0	Pass	Testing Complete
M50017	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M50019	213	Classroom		Faucet	1.4	Pass	Testing Complete
M50026		Hallway	Across From Cr 209	Cooler	<1.0	Pass	Testing Complete
M50027		Hallway	Across From Cr 209	Cooler	<1.0	Pass	Testing Complete
M50030	226	Office Media Center		Faucet	<1.0	Pass	Testing Complete
M50031		Hallway	Hall By 228	Cooler	<1.0	Pass	Testing Complete
M50032		Hallway	Hall By 228	Cooler	<1.0	Pass	Testing Complete
M50043	233	Classroom		Faucet	2.2	Pass	Testing Complete
M50047	235	Classroom		Faucet	1.7	Pass	Testing Complete
M50058	125	Classroom		Faucet	1.1	Pass	Testing Complete
M50061	132	Classroom		Faucet	1.1	Pass	Testing Complete
M50079		Hallway	Hall Near 114	Bubbler - Indoor	<1.0	Pass	Testing Complete
M50081		Hallway	Hall Near 114	Cooler	<1.0	Pass	Testing Complete
M50091	105	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50092	105	Classroom		Faucet	12.0	Pass	Testing Complete
M50093	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50094	135	Classroom		Faucet	1.9	Pass	Testing Complete
M50097	154	Classroom		Faucet	<1.0	Pass	Testing Complete
M50101	150	Classroom		Faucet	<1.0	Pass	Testing Complete
M50102	155	Classroom		Faucet	<1.0	Pass	Testing Complete
M50104	148	Classroom		Faucet	1.3	Pass	Testing Complete
M50115	149	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50116	149	Classroom		Faucet	2.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M50117		Hallway	Across From Cr 149	Bubbler - Indoor	<1.0	Pass	Testing Complete
M50118		Hallway	Across From Cr 149	Bubbler - Indoor	<1.0	Pass	Testing Complete
M50124	160A	Kitchen		Faucet	<1.0	Pass	Testing Complete
M50125	160A	Kitchen		Faucet	<1.0	Pass	Testing Complete
M50127	165	Music		Faucet	3.5	Pass	Testing Complete
M50128	103	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M50129	103	Music		Faucet	2.3	Pass	Testing Complete

*PPB = parts per billion