

Montgomery County Public Schools Lead in Drinking Water Testing Report

Spark M. Matsunaga Elementary School (Includes Longview School)
13902 Bromfield Road
Germantown, MD 20874

Report Date: March 22nd, 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	11/11/2021
# of Outlets Tested	72
# of Outlets \geq 5 ppb	5

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 Matsunaga, Spark M. ES (Includes Longview School)

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03839	In all purpose room 126	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03840	In all purpose room 126	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16265	In classroom 103A	Classroom Sink	<1	Pass	N/A	Testing Complete
M16266	In classroom 103A	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
M16271	In classroom 107A	Classroom Sink	<1	Pass	N/A	Testing Complete
M16272	In classroom 107A	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
M45440	In classroom 112	Classroom Sink	4.0	Pass	N/A	Testing Complete
M16273	In classroom 113A	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M16274	In classroom 113A	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M16279	In classroom 117A	Classroom Sink	<1	Pass	N/A	Testing Complete
M45473	In classroom 11A	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M45474	In classroom 11A	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M16288	In classroom 123A	Classroom Sink	1.1	Pass	N/A	Testing Complete
LW03841	In classroom 124	Classroom Sink	1.2	Pass	N/A	Testing Complete
M16290	In classroom 127A	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
M16291	In classroom 127A	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
M45471	In classroom 12A	Classroom Sink	<1	Pass	N/A	Testing Complete
M45472	In classroom 12A	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16295	In classroom 130	Classroom Sink	<1	Pass	N/A	Testing Complete
M46160	In classroom 134	Classroom Sink	<1	Pass	N/A	Testing Complete
M46155	In classroom 137A	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M46153	In classroom 143	Classroom Sink	<1	Pass	N/A	Testing Complete
M46148	In classroom 147A	Classroom Sink	<1	Pass	N/A	Testing Complete
M45461	In classroom 15A	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
M45462	In classroom 15A	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M45445	In classroom 160	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45446	In classroom 160	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03848	In classroom 161	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45443	In classroom 161	Classroom Sink	1.7	Pass	N/A	Testing Complete
LW03849	In classroom 164	Classroom Sink	1.1	Pass	N/A	Testing Complete

M45452	In classroom 164	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03850	In classroom 165	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45447	In classroom 165	Classroom Sink	3.2	Pass	N/A	Testing Complete
M16249	In conference room 100B	Classroom Sink	5.8	Fail	<1	Testing Complete
LW03837	In hallway adjacent to 100F	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16248	In hallway adjacent to 100F	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03842	In hallway adjacent to 102	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03843	In hallway adjacent to 102	Drinking Fountain	2.1	Pass	N/A	Testing Complete
LW03844	In hallway adjacent to 102	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03845	In hallway adjacent to 102	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16262	In hallway adjacent to 104	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16263	In hallway adjacent to 104	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16264	In hallway adjacent to 104	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03853	In hallway adjacent to 113A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03854	In hallway adjacent to 113A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03855	In hallway adjacent to 113A	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03856	In hallway adjacent to 113A	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16276	In hallway adjacent to 126	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16277	In hallway adjacent to 130	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16278	In hallway adjacent to 130	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03846	In hallway adjacent to 134	Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW03847	In hallway adjacent to 134	Drinking Fountain	1.3	Pass	N/A	Testing Complete
M46163	In hallway adjacent to 134	Drinking Fountain	7.4	Fail	<1	Testing Complete
M46164	In hallway adjacent to 134	Drinking Fountain	4.7	Pass	N/A	Testing Complete
M45463	In hallway adjacent to 15	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45464	In hallway adjacent to 15	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45453	In hallway adjacent to elevator	Drinking Fountain	13.8	Fail	7.7	Testing Complete
M45455	In hallway adjacent to elevator	Drinking Fountain	6.9	Fail	4.2	Testing Complete
M45456	In hallway adjacent to elevator	Drinking Fountain	54.2	Fail	59.8	Testing Complete
M45458	In hallway adjacent to stairwell	Drinking Fountain	<1	Pass	N/A	Testing Complete
M45459	In hallway adjacent to stairwell	Drinking Fountain	<1	Pass	N/A	Testing Complete
M16253	In health room 100K	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M16254	In health room 100K	Nurses Office Sink	<1	Pass	N/A	Testing Complete

LW03838	In kitchen 132	Kitchen Sink	1.2	Pass	N/A	Testing Complete
M16301	In kitchen 132	Kitchen Sink	<1	Pass	N/A	Testing Complete
M16303	In kitchen 132	Kitchen Sink	<1	Pass	N/A	Testing Complete
M16304	In kitchen 132	Kitchen Sink	<1	Pass	N/A	Testing Complete
M16305	In kitchen 132	Kitchen Sink	<1	Pass	N/A	Testing Complete
M46145	In kitchen 151A	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10930	In laundry room 139	Ice Machine	<1	Pass	N/A	Testing Complete
M16245	In work room 100H	Classroom Sink	<1	Pass	N/A	Testing Complete
M45439	In work room adjacent to media center	Classroom Sink	2.9	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 14, 2018

Executive Summary:

Spark M. Matsunaga Elementary School (including Longview School)

13902 Bromfield Road
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	73
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	4.8

Project Status:

Testing Complete: All results less than 20 ppb.



May 14, 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: Spark M. Matsunaga Elementary School (including Longview School)

13902 Bromfield Road
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 Spark M. Matsunaga Elementary School (including Longview School), located at 13902 Bromfield Road in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at Spark M. Matsunaga Elementary School (including Longview 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 4/23/2018 and 4/24/2018 to collect samples from 73 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 4/24/2018 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 Spark M. Matsunaga Elementary School (including Longview School)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03837	100	Hallway Administration	Outside Of 100f	Cooler	<1.0	Pass	Testing Complete
LW03838	132	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03839	126	All Purpose Room		Cooler	<1.0	Pass	Testing Complete
LW03840	126	All Purpose Room		Cooler	<1.0	Pass	Testing Complete
LW03841	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03842		Hallway	Outside Of 102	Cooler	<1.0	Pass	Testing Complete
LW03843		Hallway	Outside Of 102	Cooler	<1.0	Pass	Testing Complete
LW03844		Hallway	Outside Of 102	Cooler	<1.0	Pass	Testing Complete
LW03845		Hallway	Outside Of 102	Cooler	<1.0	Pass	Testing Complete
LW03846		Hallway	Outside 134	Cooler	<1.0	Pass	Testing Complete
LW03847		Hallway	Outside Of 134	Cooler	<1.0	Pass	Testing Complete
LW03848	161	Classroom		Cooler	<1.0	Pass	Testing Complete
LW03849	164	Classroom		Faucet	1.1	Pass	Testing Complete
LW03850	165	Classroom		Cooler	<1.0	Pass	Testing Complete
LW03853		Hallway	Outside Of 113a	Cooler	<1.0	Pass	Testing Complete
LW03854		Hallway	Outside Of 113a	Cooler	<1.0	Pass	Testing Complete
LW03855		Hallway	Outside Of 113a	Cooler	<1.0	Pass	Testing Complete
LW03856		Hallway	Outside Of 113a	Cooler	<1.0	Pass	Testing Complete
M16245	100H	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
M16248		Hallway	Next to Rm 100F	Faucet	<1.0	Pass	Testing Complete
M16249	100B	Conference Room		Faucet	2.4	Pass	Testing Complete
M16253	100K	Health		Faucet	<1.0	Pass	Testing Complete
M16254	100K	Health		Faucet	<1.0	Pass	Testing Complete
M16262		Hallway	Across from CR 104	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M16263		Hallway	Across from CR 104	Cooler	<1.0	Pass	Testing Complete
M16264		Hallway	Across from CR 104	Cooler	<1.0	Pass	Testing Complete
M16265	103A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16266	103A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16271	107A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16272	107A	Classroom	of 109	Bubbler - Indoor	<1.0	Pass	Testing Complete
M16273	113A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16274	113A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16276		Hallway	Across From Rm 126	Cooler	<1.0	Pass	Testing Complete
M16277		Hallway	Across from Rm 130	Cooler	<1.0	Pass	Testing Complete
M16278		Hallway	Across from Rm 130	Cooler	<1.0	Pass	Testing Complete
M16279	117A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16280	117A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16288	123A	Classroom		Faucet	1.5	Pass	Testing Complete
M16289	123A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16290	127A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16291	127A	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M16295	130	Classroom		Faucet	<1.0	Pass	Testing Complete
M16301		Kitchen		Faucet	<1.0	Pass	Testing Complete
M16303		Kitchen		Faucet	4.4	Pass	Testing Complete
M16304		Kitchen		Faucet	<1.0	Pass	Testing Complete
M16305		Kitchen		Faucet	<1.0	Pass	Testing Complete
M45439		Work Room Media Center		Faucet	4.8	Pass	Testing Complete
M45440	112	Classroom		Faucet	<1.0	Pass	Testing Complete
M45443	161	Classroom		Faucet	1.3	Pass	Testing Complete
M45445	160	Classroom		Cooler	<1.0	Pass	Testing Complete
M45446	160	Classroom		Faucet	<1.0	Pass	Testing Complete
M45447	165	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M45452	164	Classroom		Cooler	<1.0	Pass	Testing Complete
M45453		Hallway	Next Rm 017	Cooler	<1.0	Pass	Testing Complete
M45455		Hallway	Next Rm 017	Cooler	<1.0	Pass	Testing Complete
M45456		Hallway	Next Rm 017	Cooler	<1.0	Pass	Testing Complete
M45458		Hallway	Lower Level Next Stairs	Cooler	<1.0	Pass	Testing Complete
M45459		Hallway	Lower Level Next Stairs	Cooler	<1.0	Pass	Testing Complete
M45461	15A	Classroom		Faucet	<1.0	Pass	Testing Complete
M45462	15A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M45471	12A	Classroom		Faucet	<1.0	Pass	Testing Complete
M45472	12A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M45473	11A	Classroom		Faucet	<1.0	Pass	Testing Complete
M45474	11A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M46145	151A	Kitchen		Faucet	<1.0	Pass	Testing Complete
M46148	147A	Classroom		Faucet	<1.0	Pass	Testing Complete
M46153	143A	Classroom		Faucet	<1.0	Pass	Testing Complete
M46155	137A	Classroom		Faucet	<1.0	Pass	Testing Complete
M46160	134	Classroom		Faucet	<1.0	Pass	Testing Complete
M46161	134	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M46162	134	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M46163	134	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M46164	134	Classroom	Outside Of	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion