

Montgomery County Public Schools Lead in Drinking Water Testing Report

Springbrook High School
201 Valley Brook Drive
Silver Spring, MD 20904

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	11/09/2021
# of Outlets Tested	52
# 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. 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 Springbrook HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW05903	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05905	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW05906	In hallway adjacent to B-118	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05907	In health room C102A	Nurses Office Sink	3.0	Pass	N/A	Testing Complete
LW05908	In hallway adjacent to C-106	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05909	In hallway adjacent to C-106	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05910	In hallway adjacent to G-112	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05911	In hallway adjacent to F-108	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05912	In language office E-116	Classroom Sink	1.5	Pass	N/A	Testing Complete
LW05914	In hallway adjacent to D-104 gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05917	In office G-305	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05918	In english office F-303	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05919	In hallway adjacent to E-312	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10942	In hallway adjacent to D104 gym	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10943	In cafeteria lounge B121	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10944	In girls locker D111	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10945	In boys locker room D115	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10973	In hallway adjacent to F308	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11011	In classroom E-108	Classroom Combination Sink	2.2	Pass	N/A	Testing Complete
LW11013	In hallway adjacent to G-112	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11014	In cafeteria dining room	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11015	In cafeteria dining room	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11016	In hallway adjacent to F208	Bottle Filler	<1	Pass	N/A	Testing Complete
M39052	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39053	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39054	In kitchen	Kitchen Sink	8.6	Fail	4.5	Testing Complete
M39055	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39057	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39059	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M39060	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete

M39062	In hallway adjacent to B-118	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39075	In cafeteria dining room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39076	In cafeteria dining room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39078	In work room A112	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M39476	In hallway adjacent to F-106	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39487	In hallway adjacent to E-111	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39491	In classroom E-108	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
M39502	In hallway adjacent to auditorium	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39622	In media center work room C201B	Classroom Sink	<1	Pass	N/A	Testing Complete
M39633	In hallway adjacent to F-207	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39634	In classroom F-201	Classroom Sink	<1	Pass	N/A	Testing Complete
M39637	In hallway adjacent to F-208	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39639	In classroom F-215	Classroom Sink	2.1	Pass	N/A	Testing Complete
M39650	In hallway adjacent to G-202	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39673	In hallway adjacent to G-210	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39745	In hallway adjacent to C-306	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39746	In hallway adjacent to C-310	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39757	In hallway adjacent to E-309	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39760	In hallway adjacent to F-303	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39761	In hallway adjacent to F-308	Drinking Fountain	<1	Pass	N/A	Testing Complete
M39773	In office G-322	Classroom Sink	1.4	Pass	N/A	Testing Complete
M39774	In hallway adjacent to G-321	Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 22, 2018

Executive Summary:

Springbrook High School

201 Valley Brook Drive
Silver Spring, Maryland 20904

Round of Testing:	Initial
# of Outlets Tested:	46
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	3.2

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: Springbrook High School

201 Valley Brook 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 Springbrook High School, located at 201 Valley Brook Drive in Silver Spring, Maryland 20904.

SCOPE OF SERVICES

KCI conducted lead in water testing at Springbrook High 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 4/16/2018 and 4/17/2018 to collect samples from 46 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 4/17/2018 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 Springbrook High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05902	B-120	Kitchen Cafeteria		Icemaker	<1.0	Pass	Testing Complete
LW05903	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW05904	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW05905	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW05906		Hallway	Next To B-117	Cooler	<1.0	Pass	Testing Complete
LW05907	C102A	Health Room		Faucet	3.2	Pass	Testing Complete
LW05908		Hallway	Outside Of C-106	Cooler	<1.0	Pass	Testing Complete
LW05909		Hallway	Outside Of C-106	Cooler	<1.0	Pass	Testing Complete
LW05910		Hallway	Outside Of G-112	Cooler	<1.0	Pass	Testing Complete
LW05911		Hallway	Across From F-108	Cooler	<1.0	Pass	Testing Complete
LW05912	E-116	Language Office		Faucet	<1.0	Pass	Testing Complete
LW05913	E-108	Day Care		Bubbler - Indoor	1.2	Pass	Testing Complete
LW05914	D-104	Hallway	Across From Gym	Cooler	<1.0	Pass	Testing Complete
LW05915		Hallway	Outside Of D-3	Cooler	<1.0	Pass	Testing Complete
LW05916		Hallway	Outside Of D-3	Cooler	<1.0	Pass	Testing Complete
LW05917	G-305	Office Social Studies		Faucet	<1.0	Pass	Testing Complete
LW05918	F-303	English Office		Faucet	1.4	Pass	Testing Complete
LW05919	E-312	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39052	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39053	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39054	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39055	B-120	Kitchen Cafeteria		Faucet	1.4	Pass	Testing Complete
M39057	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M39059	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39060	B-120	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M39062		Hallway	Next To B117	Cooler	<1.0	Pass	Testing Complete
M39075	B-119	Cafeteria		Cooler	<1.0	Pass	Testing Complete
M39078	A112	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
M39476		Hallway	Across From F-106	Cooler	<1.0	Pass	Testing Complete
M39487		Hallway	Outside Of E-109	Cooler	<1.0	Pass	Testing Complete
M39491	E-108	Day Care		Faucet	<1.0	Pass	Testing Complete
M39502		Hallway	Outside Of Auditorium	Cooler	<1.0	Pass	Testing Complete
M39622	C201B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M39633		Hallway	Across From F-207	Cooler	<1.0	Pass	Testing Complete
M39634	F-201	Math		Faucet	1.3	Pass	Testing Complete
M39637		Hallway	Across From F-208	Cooler	<1.0	Pass	Testing Complete
M39639	F-215	Computer Lab		Faucet	<1.0	Pass	Testing Complete
M39650		Hallway	Outside Of G-202	Cooler	<1.0	Pass	Testing Complete
M39673		Hallway	Across From G-210	Cooler	<1.0	Pass	Testing Complete
M39745	C-306	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39746	C-310	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39757	E-307	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39760	F-303	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39761	F-308	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M39773	G-322	Office		Faucet	<1.0	Pass	Testing Complete
M39774	G-322	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion