Montgomery County Public Schools
Lead in Drinking Water Testing Report

William H. Farquhar Middle School
17017 Batchellors Forest Road
Olney, MD 20832

Report Date: February 7th, 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	11/30/2021
# of Outlets Tested	47
# of Outlets ≥ 5 ppb	0

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 William H. Farquhar MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW04850	In kitchen 139	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04851	In kitchen 139	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04852	In kitchen 139	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04853	In kitchen 139	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04854	In kitchen 139	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04855	In kitchen 139	Ice Machine	<1	Pass	N/A	Testing Complete
Lw11258	In classroom 118	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11259	In hallway adjacent to room 115	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw11260	In classroom 135	Classroom Sink	<1	Pass	N/A	Testing Complete
Lw11261	In cafeteria	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw11262	In hallway adjacent to room 139	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw11263	In 129 music	Classroom Sink	<1	Pass	N/A	Testing Complete
Lw11264	In hallway adjacent to room 148	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw11265	In hallway adjacent to room 15	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw11266	In hallway adjacent to room 215	Bottle Filler	<1	Pass	N/A	Testing Complete
M33473	In hallway adjacent to room 15	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33474	In hallway adjacent to room 15	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33479	In team 10	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33480	In copy 11	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33485	In break room 30	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M33486	In break room 30	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M33487	In break room 120	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M33493	In hallway adjacent to room 115	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33494	In hallway adjacent to room 115	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33499	In team 110	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33500	In copy 111	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33501	In copy 212	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33502	In team 210	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33507	In hallway adjacent to room 215	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33508	In hallway adjacent to room 215	Drinking Fountain	<1	Pass	N/A	Testing Complete

M33516	In work room 233 adjacent to media center	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33517	In mail room 100N	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33521	In health room 159	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M33522	In health room 159D	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M33524	In boys locker room 141	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33527	In girls locker room 143	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33538	In hallway adjacent to room 148	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33539	In hallway adjacent to room 148	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33540	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33541	In cafeteria	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33542	In kitchen 139	Kitchen Sink	<1	Pass	N/A	Testing Complete
M33543	In kitchen 139	Kitchen Sink	<1	Pass	N/A	Testing Complete
M33544	In kitchen 139	Kitchen Sink	<1	Pass	N/A	Testing Complete
M33546	In hallway adjacent to room 139	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33547	In hallway 139 across from	Drinking Fountain	<1	Pass	N/A	Testing Complete
M33549	In team 136	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M33550	In team room 137	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete

KCI TECHNOLOGIES
ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD • SPARKS, MD 21152 • 410-316-7800 • (FAX) 410-316-7935

Montgomery County Public Schools
Lead in Drinking Water Testing 2018

Executive Summary:
William Farquhar Middle School
17017 Batchellors Forest Road
Olney, Maryland 20832

Date of Test Report:	4/5/2018
Round of Testing:	Initial
# of Outlets Tested:	35
# of Outlets ≥20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	1.5

Project Status:
Initial testing complete: All results less than 20 ppb.

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4/5/2018

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

Re: Drinking Water Testing

KCI Job #1214634189

Location: William Farquhar Middle School
17017 Batchellors Forest Road
Olney, Maryland 20832

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 William Farquhar Middle School, located at 17017 Batchellors Forest Road in Olney, Maryland 20832.

SCOPE OF SERVICES

KCI conducted lead in water testing at William Farquhar Middle 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 3/13/2018 and 3/14/2018 to collect samples from 35 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 3/14/2018 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 William Farquhar Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04850	139	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW04851	139	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW04852	139	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW04853	139	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW04854	139	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW04855	139	Kitchen		Icemaker	<1.0	Pass	Testing Complete
M33473	15	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M33474	15	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M33479	10	Team Rm		Faucet	<1.0	Pass	Testing Complete
M33480	11	Copy		Faucet	<1.0	Pass	Testing Complete
M33485	30	Break Room		Faucet	1.3	Pass	Testing Complete
M33486	30	Break Room		Faucet	1.3	Pass	Testing Complete
M33487	120	Break Room		Faucet	<1.0	Pass	Testing Complete
M33493	115	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M33494	115	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M33499	110	Team Rm		Faucet	<1.0	Pass	Testing Complete
M33500	111	Copy		Faucet	<1.0	Pass	Testing Complete
M33501	212	Copy		Faucet	<1.0	Pass	Testing Complete
M33502	210	Team Rm		Faucet	<1.0	Pass	Testing Complete
M33507	215	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M33508	215	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M33516	233	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M33517	100N	Mail Room		Faucet	<1.0	Pass	Testing Complete
M33521	159	Health Room		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M33522	159D	Health Room		Faucet	1.5	Pass	Testing Complete
M33524	141	Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M33538	148	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M33539	148	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M33542	139	Kitchen		Faucet	<1.0	Pass	Testing Complete
M33543	139	Kitchen		Faucet	<1.0	Pass	Testing Complete
M33544	139	Kitchen		Faucet	<1.0	Pass	Testing Complete
M33546	139	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M33547	139	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M33549	136	Team Rm		Faucet	<1.0	Pass	Testing Complete
M33550	137	Team Room		Faucet	<1.0	Pass	Testing Complete

*PPB = parts per billion