

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Dr. Ronald E. McNair Elementary School
13881 Hopkins Road
Germantown, MD 20874**

Report Date: March 28th, 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	11/23/2021
# of Outlets Tested	76
# 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 Dr. Ronald E. McNair ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
M12193	In classroom 1	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M12194	In classroom 1	Classroom Combination Drinking Fountain	3.3	Pass	N/A	Testing Complete
M12158	In classroom 10	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12155	In classroom 10	Classroom Combination Drinking Fountain	2.3	Pass	N/A	Testing Complete
LW04144	In classroom 11	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04145	In classroom 11	Classroom Combination Drinking Fountain	2.1	Pass	N/A	Testing Complete
M12156	In classroom 12	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12153	In classroom 12	Classroom Combination Drinking Fountain	1.9	Pass	N/A	Testing Complete
LW04146	In classroom 13	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04147	In classroom 13	Classroom Combination Drinking Fountain	2.0	Pass	N/A	Testing Complete
LW04148	In classroom 14	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12135	In classroom 14	Classroom Combination Drinking Fountain	3.0	Pass	N/A	Testing Complete
LW04149	In classroom 15	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
LW04150	In classroom 15	Classroom Combination Drinking Fountain	2.7	Pass	N/A	Testing Complete
M12136	In classroom 16	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12133	In classroom 16	Classroom Combination Drinking Fountain	1.5	Pass	N/A	Testing Complete
LW04151	In classroom 17	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04152	In classroom 17	Classroom Combination Drinking Fountain	2.2	Pass	N/A	Testing Complete
LW04153	In classroom 18	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12129	In classroom 18	Classroom Combination Drinking Fountain	2.5	Pass	N/A	Testing Complete
LW04154	In classroom 19	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04155	In classroom 19	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04128	In classroom 2	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04129	In classroom 2	Classroom Combination Drinking Fountain	2.7	Pass	N/A	Testing Complete
LW04156	In classroom 20	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW04157	In classroom 20	Classroom Combination Drinking Fountain	1.7	Pass	N/A	Testing Complete
LW04158	In classroom 21	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04159	In classroom 21	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW04160	In classroom 22	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04161	In classroom 22	Classroom Combination Drinking Fountain	2.0	Pass	N/A	Testing Complete

M12109	In classroom 23	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12110	In classroom 23	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04162	In classroom 24	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04163	In classroom 24	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
M12187	In classroom 3	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12188	In classroom 3	Classroom Combination Drinking Fountain	3.3	Pass	N/A	Testing Complete
M12185	In classroom 4	Classroom Sink	<1	Pass	N/A	Testing Complete
M12186	In classroom 4	Classroom Combination Drinking Fountain	1.6	Pass	N/A	Testing Complete
M12211	In classroom 5	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12210	In classroom 6	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M12209	In classroom 6	Classroom Combination Sink	2.9	Pass	N/A	Testing Complete
M12207	In classroom 7	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12208	In classroom 7	Classroom Combination Drinking Fountain	3.5	Pass	N/A	Testing Complete
M12205	In classroom 8	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12206	In classroom 8	Classroom Combination Drinking Fountain	2.6	Pass	N/A	Testing Complete
M12204	In classroom 9	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M12203	In classroom 9	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW04135	In classroom K1	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04136	In classroom K1	Classroom Combination Drinking Fountain	4.0	Pass	N/A	Testing Complete
LW04137	In classroom K2	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04138	In classroom K2	Classroom Combination Drinking Fountain	2.1	Pass	N/A	Testing Complete
LW04139	In classroom K3	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04140	In classroom K3	Classroom Combination Drinking Fountain	1.9	Pass	N/A	Testing Complete
LW04141	In classroom K4	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04142	In classroom K4	Classroom Combination Drinking Fountain	1.7	Pass	N/A	Testing Complete
M12182	In dual purpose room by dual purpose room	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M12179	In dual purpose room by dual purpose room	Classroom Combination Drinking Fountain	2.5	Pass	N/A	Testing Complete
LW04164	In hallway across from 24	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04133	In hallway across from 9	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04130	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04134	In hallway outside of Mpr	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04143	In hallway to the right of 11	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04126	In health room	Nurses Office Sink	<1	Pass	N/A	Testing Complete

M12224	In kitchen	Kitchen Sink	2.5	Pass	N/A	Testing Complete
M12223	In kitchen	Kitchen Sink	3.1	Pass	N/A	Testing Complete
M12225	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M12226	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW04127	In media center	Classroom Sink	1.5	Pass	N/A	Testing Complete
M12177	In music by music	Classroom Combination Drinking Fountain	2.0	Pass	N/A	Testing Complete
M12180	In music by music	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
LW04132	In team room	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M12162	Inside instrumental music room	Classroom Sink	8.0	Fail	<1	Testing Complete
LW11337	Inside kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
LW11338	Inside staff work room	Classroom Sink	<1	Pass	N/A	Testing Complete
M12137	Inside support room	Classroom Sink	3.5	Pass	N/A	Testing Complete
M12117	Inside therapy room	Classroom Sink	3.7	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 1, 2018

Executive Summary:

Ronald A. McNair Elementary School

13881 Hopkins 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):	3.2

Project Status:

Testing Complete: All results less than 20 ppb.



June 1, 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: Ronald A. McNair Elementary School

13881 Hopkins 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 Ronald A. McNair Elementary School, located at 13881 Hopkins Road in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at Ronald A. McNair 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 4/25/2018 and 4/26/2018 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 4/26/2018 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 Ronald A. McNair Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04126		Health Room		Faucet	1.2	Pass	Testing Complete
LW04127		Media Center		Faucet	1.2	Pass	Testing Complete
LW04128	2	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04129	2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04130		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW04131		Team Room		Instant Hot Water	<1.0	Pass	Testing Complete
LW04132		Team Room		Faucet	<1.0	Pass	Testing Complete
LW04133		Hallway	Across From 9	Cooler	<1.0	Pass	Testing Complete
LW04134		Hallway	Outside Of Mpr	Cooler	<1.0	Pass	Testing Complete
LW04135	K1	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04136	K1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04137	K2	Classroom		Faucet	2.9	Pass	Testing Complete
LW04138	K2	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW04139	K3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04140	K3	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW04141	K4	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04142	K4	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW04143		Hallway	To The Right Of 11	Cooler	<1.0	Pass	Testing Complete
LW04144	11	Classroom		Faucet	1.2	Pass	Testing Complete
LW04145	11	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW04146	13	Classroom		Faucet	1.2	Pass	Testing Complete
LW04147	13	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW04148	14	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04149	15	Classroom		Faucet	1.1	Pass	Testing Complete
LW04150	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04151	17	Classroom		Faucet	1.8	Pass	Testing Complete
LW04152	17	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW04153	18	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04154	19	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04155	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04156	20	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04157	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04158	21	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04159	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04160	22	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04161	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04162	24	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04163	24	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04164		Hallway	Across From 24	Cooler	<1.0	Pass	Testing Complete
M12109	23	Classroom		Faucet	1.1	Pass	Testing Complete
M12110	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12129	18	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
M12133	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12135	14	Classroom		Bubbler - Indoor	2.2	Pass	Testing Complete
M12136	16	Classroom		Faucet	1.7	Pass	Testing Complete
M12153	12	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
M12155	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12156	12	Classroom		Faucet	<1.0	Pass	Testing Complete
M12158	10	Classroom		Faucet	1.1	Pass	Testing Complete
M12177		Music		Bubbler - Indoor	1.2	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M12179		Dual Purpose Room		Bubbler - Indoor	2.3	Pass	Testing Complete
M12180		Music		Faucet	<1.0	Pass	Testing Complete
M12182		Dual Purpose Room		Faucet	1.2	Pass	Testing Complete
M12185	4	Classroom		Faucet	<1.0	Pass	Testing Complete
M12186	4	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M12187	3	Classroom		Faucet	1.5	Pass	Testing Complete
M12188	3	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M12193	1	Classroom		Faucet	<1.0	Pass	Testing Complete
M12194	1	Classroom		Bubbler - Indoor	1.9	Pass	Testing Complete
M12203	9	Classroom		Faucet	<1.0	Pass	Testing Complete
M12204	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12205	8	Classroom		Faucet	1.6	Pass	Testing Complete
M12206	8	Classroom		Bubbler - Indoor	3.2	Pass	Testing Complete
M12207	7	Classroom		Faucet	<1.0	Pass	Testing Complete
M12208	7	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M12209	6	Classroom		Faucet	<1.0	Pass	Testing Complete
M12210	6	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M12211	5	Classroom		Faucet	<1.0	Pass	Testing Complete
M12212	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12223		Kitchen		Faucet	1.8	Pass	Testing Complete
M12224		Kitchen		Faucet	3.2	Pass	Testing Complete
M12225		Kitchen		Faucet	1.3	Pass	Testing Complete
M12226		Kitchen		Faucet	<1.0	Pass	Testing Complete

*PPB = parts per billion