

Montgomery County Public Schools Lead in Drinking Water Testing Report

Cedar Grove Elementary School
24001 Ridge Road
Germantown, MD 20876

Report Date: February 16th, 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	10/26/2021
# of Outlets Tested	40
# of Outlets \geq 5 ppb	8

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 Cedar Grove ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
Lw10860	Adjacent classroom 1	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw10859	Adjacent to room 1	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW05830	Hallway adjacent to all purpose room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04923	In break room 1B	Teachers Lounge Sink	1.7	Pass	N/A	Testing Complete
LW04925	In classroom 1	Classroom Sink	2.2	Pass	N/A	Testing Complete
M15857	In classroom 10	Classroom Combination Drinking Fountain	4.9	Pass	N/A	Testing Complete
M15858	In classroom 10	Classroom Combination Sink	3.6	Pass	N/A	Testing Complete
M15854	In classroom 11	Classroom Sink	2.8	Pass	N/A	Testing Complete
M15852	In classroom 12	Classroom Sink	3.3	Pass	N/A	Testing Complete
M15850	In classroom 13	Classroom Sink	3.8	Pass	N/A	Testing Complete
M15848	In classroom 14	Classroom Sink	5.7	Fail	3.0	Testing Complete
M15838	In classroom 16	Classroom Sink	5.8	Fail	4.6	Testing Complete
M15841	In classroom 17	Classroom Combination Drinking Fountain	2.5	Pass	N/A	Testing Complete
M15842	In classroom 17	Classroom Combination Sink	302	Fail	12.7	Testing Complete
M15840	In classroom 18	Classroom Sink	2.1	Pass	N/A	Testing Complete
M15876	In classroom 2	Classroom Sink	5.6	Fail	4.8	Testing Complete
M15882	In classroom 3	Classroom Sink	1.2	Pass	N/A	Testing Complete
M15878	In classroom 4	Classroom Sink	6.0	Fail	6.9	Testing Complete
M15880	In classroom 5	Classroom Sink	3.1	Pass	N/A	Testing Complete
Lw10858	In classroom 5	Classroom Combination Drinking Fountain	8.6	Fail	1.7	Testing Complete
M15869	In classroom 6	Teacher's Lounge Sink	1.5	Pass	N/A	Testing Complete
M15868	In classroom 8	Classroom Sink	1.4	Pass	N/A	Testing Complete
LW04927	In classroom 9	Classroom Sink	<1	Pass	N/A	Testing Complete
LW05829	In classroom K1	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04931	In classroom K2	Classroom Sink	<1	Pass	N/A	Testing Complete
LW04930	In classroom K3	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10856	In hallway adjacent to gym	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10857	In hallway adjacent to gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04928	In hallway adjacent to room 10	Drinking Fountain	<1	Pass	N/A	Testing Complete
LE10855	In hallway adjacent to room K3	Drinking Fountain	<1	Pass	N/A	Testing Complete

M15888	In health room by administration	Nurses Office Sink	3.1	Pass	N/A	Testing Complete
M15813	In kitchen	Kitchen Sink	2.8	Pass	N/A	Testing Complete
M15815	In kitchen	Kitchen Sink	4.7	Pass	N/A	Testing Complete
M15814	In kitchen	Kitchen Sink	3.5	Pass	N/A	Testing Complete
M15816	In kitchen	Kitchen Sink	4.3	Pass	N/A	Testing Complete
M15817	In music	Classroom Sink	11.1	Fail	61.6	Testing Complete
M15874	In reading	Kitchen Sink	<1	Pass	N/A	Testing Complete
M15844	In room 15	Classroom Sink	32	Fail	19	Testing Complete
M15887	In work room by administration	Teachers Lounge Sink	1.9	Pass	N/A	Testing Complete
M15826	In work room by media center	Classroom Sink	1.4	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Cedar Grove Elementary School

24001 Ridge Road

Germantown, Maryland 20876

Date of Test Report:	4/10/2018
Round of Testing:	Initial
# of Outlets Tested:	39
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	9.4

Project Status:

Initial testing complete: All results less than 20 ppb.



4/10/2018

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: Cedar Grove Elementary School

24001 Ridge Road
Germantown, Maryland 20876

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 Cedar Grove Elementary School, located at 24001 Ridge Road in Germantown, Maryland 20876.

SCOPE OF SERVICES

KCI conducted lead in water testing at Cedar Grove 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 3/22/2018 and 3/23/2018 to collect samples from 39 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 3/23/2018 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 Cedar Grove Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04923	1B	Break Room		Faucet	1.0	Pass	Testing Complete
LW04924	1B	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW04925	1	Classroom		Faucet	4.7	Pass	Testing Complete
LW04927	9	Classroom		Faucet	1.1	Pass	Testing Complete
LW04928	10	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW04929	GYM	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW04930	K3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04931	K2	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05829	K1	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05830		Hallway All Purpose Room	Across From	Cooler	<1.0	Pass	Testing Complete
M15813		Kitchen		Faucet	1.1	Pass	Testing Complete
M15814		Kitchen		Faucet	1.2	Pass	Testing Complete
M15815		Kitchen		Faucet	3.2	Pass	Testing Complete
M15816		Kitchen		Faucet	4.1	Pass	Testing Complete
M15817		Music Music		Faucet	2.4	Pass	Testing Complete
M15826		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M15838	16	Classroom		Faucet	3.5	Pass	Testing Complete
M15840	18	Classroom		Faucet	2.7	Pass	Testing Complete
M15841	17	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
M15842	17	Classroom		Faucet	2.7	Pass	Testing Complete
M15843	15	Classroom		Bubbler - Indoor	5.9	Pass	Testing Complete
M15844	15	Classroom		Faucet	9.4	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M15848	14	Classroom		Faucet	3.1	Pass	Testing Complete
M15850	13	Classroom		Faucet	<1.0	Pass	Testing Complete
M15852	12	Classroom		Faucet	3.7	Pass	Testing Complete
M15853	11	Classroom		Bubbler - Indoor	6.9	Pass	Testing Complete
M15854	11	Classroom		Faucet	1.5	Pass	Testing Complete
M15857	10	Classroom		Bubbler - Indoor	1.9	Pass	Testing Complete
M15858	10	Classroom		Faucet	2.0	Pass	Testing Complete
M15868	8	Classroom		Faucet	1.6	Pass	Testing Complete
M15869	6	Classroom		Faucet	3.9	Pass	Testing Complete
M15874		Reading		Faucet	<1.0	Pass	Testing Complete
M15876	2	Classroom		Faucet	1.0	Pass	Testing Complete
M15878	4	Classroom		Faucet	1.5	Pass	Testing Complete
M15879	3	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
M15880	5	Classroom		Faucet	2.6	Pass	Testing Complete
M15882	3	Classroom		Faucet	1.0	Pass	Testing Complete
M15887		Work Room Administration		Faucet	1.1	Pass	Testing Complete
M15888		Health Room Administration		Faucet	1.2	Pass	Testing Complete

*PPB = parts per billion