

Montgomery County Public Schools Lead in Drinking Water Testing Report

Great Seneca Creek Elementary School
13010 Dairymaid Drive
Germantown, MD 20874

Report Date: February 20th, 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	11/16/2021
# of Outlets Tested	83
# of Outlets \geq 5 ppb	3

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 Great Seneca Creek ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW06161	In classroom 137	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06162	In classroom 155	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06163	In classroom 155	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06164	In classroom 157	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06165	In classroom 175	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06166	In classroom 179	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06169	In classroom 225	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW06170	In classroom 225	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06171	In classroom 214	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW06172	In classroom 214	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06173	In classroom 211	Classroom Sink	1.7	Pass	N/A	Testing Complete
LW11339	In classroom 203	Classroom Sink	3.2	Pass	N/A	Testing Complete
M28946	In work room 100C	Classroom Sink	3.3	Pass	N/A	Testing Complete
M28947	In break room 106	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M28949	In health room 102C exam room	Nurses Office Sink	10.4	Fail	3.4	Testing Complete
M28951	In health room 102	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M28952	In work room 111 adjacent to media center	Classroom Sink	<1	Pass	N/A	Testing Complete
M28959	In hallway room 116 adjacent to girls bathroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28960	In hallway room 116 adjacent to girls bathroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28961	In classroom 181	Classroom Sink	3.5	Pass	N/A	Testing Complete
M28971	In hallway adjacent to room 181	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28972	In hallway adjacent to room 181	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28974	In classroom 179	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M28975	In classroom 176	Classroom Sink	<1	Pass	N/A	Testing Complete
M28977	In classroom 172	Classroom Sink	<1	Pass	N/A	Testing Complete
M28979	In classroom 175	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28981	In classroom 173	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28982	In classroom 173	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M28983	In classroom 169	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28984	In classroom 169	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M28985	In classroom 165	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28986	In classroom 165	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M28988	In classroom 161	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28989	In classroom 161	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M28991	In classroom 157	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28997	In classroom 151	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28998	In classroom 151	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29000	In classroom 142	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M29001	In classroom 142	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29002	In classroom 141	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29003	In classroom 141	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29004	In hallway adjacent to room 135	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29005	In hallway adjacent to room 135	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29008	In classroom 138	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29009	In classroom 138	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29019	In kitchen adjacent to room 108	Kitchen Sink	152	Fail	<1	Testing Complete
M29020	In kitchen adjacent to room 108	Kitchen Sink	8.9	Fail	<1	Testing Complete
M29021	In kitchen adjacent to room 108	Kitchen Sink	1.7	Pass	N/A	Testing Complete
M29022	In kitchen adjacent to room 108	Kitchen Sink	1.9	Pass	N/A	Testing Complete
M29027	In music room 126	Classroom Combination Sink	2.7	Pass	N/A	Testing Complete
M29028	In music 126	Classroom Sink	3.5	Pass	N/A	Testing Complete
M29029	In classroom 126	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29030	In classroom 122	Classroom Sink	<1	Pass	N/A	Testing Complete
M29032	In art room 124	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29035	In art room 128	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29037	In hallway adjacent to room 123	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29038	In hallway adjacent to room 123	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29043	In classroom 258	Classroom Sink	<1	Pass	N/A	Testing Complete
M29045	In girls bathroom adjacent to room 248	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29046	In girls bathroom adjacent to room 248	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29055	In classroom 249	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29056	In classroom 249	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29057	In classroom 246	Classroom Sink	<1	Pass	N/A	Testing Complete

M29059	In classroom 242	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M29060	In classroom 242	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29061	In classroom 245	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29062	In classroom 245	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29063	In classroom 243	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29064	In classroom 243	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29065	In classroom 239	Classroom Combination Sink	2	Pass	N/A	Testing Complete
M29066	In classroom 239	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29067	In classroom 235	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29068	In classroom 235	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29069	In classroom 231	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29070	In classroom 231	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29071	In classroom 227	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29072	In classroom 227	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29075	In classroom 221	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M29076	In classroom 221	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M29081	In classroom 210	Classroom Sink	1.5	Pass	N/A	Testing Complete
M29083	In classroom 207	Classroom Sink	<1	Pass	N/A	Testing Complete
M29085	In hallway adjacent to room 205	Drinking Fountain	<1	Pass	N/A	Testing Complete
M29086	In hallway adjacent to room 205	Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 1, 2018

Executive Summary:

Great Seneca Creek Elementary School

13010 Dairymaid Drive
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	86
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	4.3

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: Great Seneca Creek Elementary School

13010 Dairymaid Drive
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 Great Seneca Creek Elementary School, located at 13010 Dairymaid Drive in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at Great Seneca Creek 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 4/19/2018 and 4/20/2018 to collect samples from 86 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 4/20/2018 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 Great Seneca Creek Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06161	137	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06162	155	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06163	155	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06164	157	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06165	175	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06167	176	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06168	124	Art		Faucet	<1.0	Pass	Testing Complete
LW06169	225	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06170	225	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06171	214	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06172	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06173	211	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06174	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M28946	100 C	Work Room		Faucet	1.3	Pass	Testing Complete
M28947	106	Break Room		Faucet	1.0	Pass	Testing Complete
M28951	102	Health		Faucet	<1.0	Pass	Testing Complete
M28952	111	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M28959	116	Hallway	RT of GBR	Cooler	<1.0	Pass	Testing Complete
M28960	116	Hallway	RT of GBR	Cooler	<1.0	Pass	Testing Complete
M28961	181	Classroom		Faucet	<1.0	Pass	Testing Complete
M28962	181	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28971	181	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M28972	181	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M28975	176	Classroom		Faucet	<1.0	Pass	Testing Complete
M28977	172	Classroom		Faucet	<1.0	Pass	Testing Complete
M28978	172	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28979	175	Classroom		Faucet	<1.0	Pass	Testing Complete
M28981	173	Classroom		Faucet	<1.0	Pass	Testing Complete
M28982	173	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28983	169	Classroom		Faucet	<1.0	Pass	Testing Complete
M28984	169	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28985	165	Classroom		Faucet	<1.0	Pass	Testing Complete
M28986	165	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28988	161	Classroom		Faucet	<1.0	Pass	Testing Complete
M28989	161	Classroom		Bubbler	<1.0	Pass	Testing Complete
M28991	157	Classroom		Faucet	<1.0	Pass	Testing Complete
M28997	151	Classroom		Faucet	<1.0	Pass	Testing Complete
M28998	151	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29000	142	Classroom		Faucet	<1.0	Pass	Testing Complete
M29001	142	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29002	141	Classroom		Faucet	<1.0	Pass	Testing Complete
M29003	141	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29004	135	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M29005	135	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M29007	137	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29008	138	Classroom		Faucet	<1.0	Pass	Testing Complete
M29009	138	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29019	108	Kitchen		Faucet	1.5	Pass	Testing Complete
M29021	108	Kitchen		Faucet	<1.0	Pass	Testing Complete
M29022	108	Kitchen		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M29027	126	Music		Faucet	4.3	Pass	Testing Complete
M29028	126	Music		Faucet	3.4	Pass	Testing Complete
M29029	126	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29032	124	Art		Bubbler	<1.0	Pass	Testing Complete
M29034	128	Art		Faucet	<1.0	Pass	Testing Complete
M29035	128	Art		Bubbler	<1.0	Pass	Testing Complete
M29037	123	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M29038	123	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M29045	248	Girls Bathroom	Left	Cooler	<1.0	Pass	Testing Complete
M29046	248	Girls Bathroom	Left	Cooler	<1.0	Pass	Testing Complete
M29055	249	Classroom		Faucet	2.1	Pass	Testing Complete
M29056	249	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29057	246	Classroom		Faucet	<1.0	Pass	Testing Complete
M29058	246	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29059	242	Classroom		Faucet	<1.0	Pass	Testing Complete
M29060	242	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29061	245	Classroom		Faucet	<1.0	Pass	Testing Complete
M29062	245	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29063	243	Classroom		Faucet	<1.0	Pass	Testing Complete
M29064	243	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29065	239	Classroom		Faucet	1.4	Pass	Testing Complete
M29066	239	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29067	235	Classroom		Faucet	<1.0	Pass	Testing Complete
M29068	235	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29069	231	Classroom		Faucet	<1.0	Pass	Testing Complete
M29070	231	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29071	227	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M29072	227	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29075	221	Classroom		Faucet	<1.0	Pass	Testing Complete
M29076	221	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29081	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M29082	210	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29083	207	Classroom		Faucet	<1.0	Pass	Testing Complete
M29084	207	Classroom		Bubbler	<1.0	Pass	Testing Complete
M29085	205	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M29086	205	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion