

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Brooke Grove Elementary School  
2700 Spartan Road  
Olney, MD 20832

Report Date: February 24<sup>th</sup>, 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	67
# of Outlets $\geq$ 5 ppb	4

## 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](mailto: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](http://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 Brooke Grove ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW04857	In break room	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M23105	In classroom 1	Classroom Combination Sink	3.1	Pass	N/A	Testing Complete
M23106	In classroom 1	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04863	In classroom 10	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23024	In classroom 11	Classroom Combination Sink	3.2	Pass	N/A	Testing Complete
M23025	In classroom 11	Classroom Combination Drinking Fountain	3.5	Pass	N/A	Testing Complete
M23064	In classroom 12	Classroom Combination Sink	3.7	Pass	N/A	Testing Complete
M23065	In classroom 12	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23066	In classroom 13	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
M23067	In classroom 13	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23070	In classroom 14	Classroom Combination Sink	3.7	Pass	N/A	Testing Complete
M23072	In classroom 15	Classroom Combination Sink	7.8	Fail	<1	Testing Complete
M23073	In classroom 15	Classroom Combination Drinking Fountain	2.2	Pass	N/A	Testing Complete
LW04883	In classroom 16	Classroom Combination Sink	3.7	Pass	N/A	Testing Complete
LW04884	In classroom 16	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23080	In classroom 17	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
M23081	In classroom 17	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23082	In classroom 18	Classroom Combination Sink	3.1	Pass	N/A	Testing Complete
M23084	In classroom 19	Classroom Combination Sink	6.7	Fail	<1	Testing Complete
M23085	In classroom 19	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23103	In classroom 2	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
M23104	In classroom 2	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04886	In classroom 20	Classroom Combination Sink	4.4	Pass	N/A	Testing Complete
LW04887	In classroom 20	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23068	In classroom 22	Classroom Combination Sink	2.5	Pass	N/A	Testing Complete
M23069	In classroom 22	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04874	In classroom 3	Classroom Combination Sink	3.8	Pass	N/A	Testing Complete
LW04875	In classroom 3	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04872	In classroom 4	Classroom Combination Sink	3.5	Pass	N/A	Testing Complete
LW04873	In classroom 4	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

LW04866	In classroom 5	Classroom Combination Sink	3.4	Pass	N/A	Testing Complete
LW04867	In classroom 5	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23038	In classroom 7	Classroom Combination Sink	2.6	Pass	N/A	Testing Complete
LW04864	In classroom 8	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23036	In classroom 8	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M23034	In classroom 9	Classroom Combination Sink	4.5	Pass	N/A	Testing Complete
M23035	In classroom 9	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04878	In classroom K1	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04879	In classroom K1	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04876	In classroom K2	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
LW04877	In classroom K2	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04870	In classroom K3	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW04871	In classroom K3	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04868	In classroom K4	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW04869	In classroom K4	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M23019	In counselor SPT	Teacher's Lounge Sink	2.9	Pass	N/A	Testing Complete
LW04880	In hallway adjacent to gym office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04856	In hallway adjacent to health room 100M	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10599	In hallway adjacent to health room 100M	Bottle Filler	<1	Pass	N/A	Testing Complete
LW04881	In hallway adjacent to main office 100	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04862	In hallway adjacent to room 10	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10598	In hallway adjacent to room 11	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04882	In hallway adjacent to room 12	Bottle Filler	<1	Pass	N/A	Testing Complete
LW04885	In hallway adjacent to room 17	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW04865	In hallway adjacent to room 5	Drinking Fountain	<1	Pass	N/A	Testing Complete
M23116	In health room 100M	Nurses Office Sink	3.1	Pass	N/A	Testing Complete
LW04858	In kitchen	Kitchen Sink	3.3	Pass	N/A	Testing Complete
M23006	In kitchen	Kitchen Sink	3.0	Pass	N/A	Testing Complete
M23007	In kitchen	Kitchen Sink	3.0	Pass	N/A	Testing Complete
M23008	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M23013	In music	Classroom Combination Sink	7.4	Fail	<1	Testing Complete
LW04859	In music room	Classroom Combination Sink	1.7	Pass	N/A	Testing Complete
LW04860	In music room	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M23111	In office Nicholl	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M23020	In resources room	Classroom Combination Sink	16.6	Fail	<1	Testing Complete
M23112	In work room 100F	Teacher's Lounge Sink	1.3	Pass	N/A	Testing Complete
M23040	In work room adjacent to media center	Teacher's Lounge Sink	3.5	Pass	N/A	Testing Complete



## Montgomery County Public Schools Lead in Drinking Water Testing 2018

### Executive Summary:

#### Brooke Grove Elementary School

2700 Spartan Road

Olney, Maryland 20832

Date of Test Report:	4/5/2018
Round of Testing:	Initial
# of Outlets Tested:	72
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	14.4

### Project Status:

Initial testing complete: All results less than 20 ppb.



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: Brooke Grove Elementary School**

2700 Spartan 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 Brooke Grove Elementary School, located at 2700 Spartan Road in Olney, Maryland 20832.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Brooke 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 3/14/2018 and 3/15/2018 to collect samples from 72 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.



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## **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 3/15/2018 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 Brooke Grove Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04856		Hallway	Outside Of Admin. Office	Cooler	<1.0	Pass	Testing Complete
LW04857		Break Room		Faucet	<1.0	Pass	Testing Complete
LW04858		Kitchen		Faucet	3.6	Pass	Testing Complete
LW04859		Music		Faucet	1.1	Pass	Testing Complete
LW04860		Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04861		Resource Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04862	10	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW04863	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04864	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04865	5	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW04866	5	Classroom		Faucet	2.6	Pass	Testing Complete
LW04867	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04868	K4	Classroom		Faucet	1.3	Pass	Testing Complete
LW04869	K4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04870	K3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04871	K3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04872	4	Classroom		Faucet	3.8	Pass	Testing Complete
LW04873	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04874	3	Classroom		Faucet	4.2	Pass	Testing Complete
LW04875	3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04876	K2	Classroom		Faucet	1.2	Pass	Testing Complete
LW04877	K2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04878	K1	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04879	K1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04880		Hallway Gymnasium Office	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW04881		Hallway Work Room	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW04882	12	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW04883	16	Classroom		Faucet	1.5	Pass	Testing Complete
LW04884	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04885	17	Hallway	Outside Of	Cooler	1.0	Pass	Testing Complete
LW04886	20	Classroom		Faucet	2.9	Pass	Testing Complete
LW04887	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23006		Kitchen		Faucet	4.0	Pass	Testing Complete
M23007		Kitchen		Faucet	1.2	Pass	Testing Complete
M23008		Kitchen		Faucet	<1.0	Pass	Testing Complete
M23013		Music		Faucet	14.4	Pass	Testing Complete
M23014		Music		Bubbler - Indoor	2.4	Pass	Testing Complete
M23019	SPT	Counselor		Faucet	3.3	Pass	Testing Complete
M23020		Resource		Faucet	13.3	Pass	Testing Complete
M23024	11	Classroom		Faucet	3.6	Pass	Testing Complete
M23025	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23032	10	Classroom		Faucet	9.4	Pass	Testing Complete
M23034	9	Classroom		Faucet	2.4	Pass	Testing Complete
M23035	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23036	8	Classroom		Faucet	<1.0	Pass	Testing Complete
M23038	7	Classroom		Faucet	2.1	Pass	Testing Complete
M23039	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23040		Work Room Media Center		Faucet	2.6	Pass	Testing Complete
M23041	6	Classroom		Faucet	<1.0	Pass	Testing Complete
M23042	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23064	12	Classroom		Faucet	1.6	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M23065	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23066	13	Classroom		Faucet	<1.0	Pass	Testing Complete
M23067	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23068	22	Classroom		Faucet	1.5	Pass	Testing Complete
M23069	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23070	14	Classroom		Faucet	1.9	Pass	Testing Complete
M23072	15	Classroom		Faucet	<1.0	Pass	Testing Complete
M23073	15	Classroom		Bubbler	<1.0	Pass	Testing Complete
M23076	21	Classroom		Faucet	5.6	Pass	Testing Complete
M23080	17	Classroom		Faucet	2.0	Pass	Testing Complete
M23081	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23082	18	Classroom		Faucet	1.5	Pass	Testing Complete
M23084	19	Classroom		Faucet	<1.0	Pass	Testing Complete
M23085	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23103	2	Classroom		Faucet	2.1	Pass	Testing Complete
M23104	2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M23105	1	Classroom		Faucet	1.4	Pass	Testing Complete
M23106	1	Classroom		Bubbler	<1.0	Pass	Testing Complete
M23111	23	Office		Faucet	1.0	Pass	Testing Complete
M23112		Work Room Administration		Faucet	1.0	Pass	Testing Complete
M23116		Health Room Administration		Faucet	1.7	Pass	Testing Complete

\*PPB = parts per billion