



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 24, 2018

Executive Summary:
Cresthaven Elementary School
1234 Cresthaven Drive
Silver Spring, Maryland 20903

Round of Testing:	Initial
# of Outlets Tested:	75
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	4.0

Project Status:
Testing Complete: All results less than 20 ppb.



May 24, 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: Cresthaven Elementary School

1234 Cresthaven Drive
Silver Spring, Maryland 20903

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 Cresthaven Elementary School, located at 1234 Cresthaven Drive in Silver Spring, Maryland 20903.

SCOPE OF SERVICES

KCI conducted lead in water testing at Cresthaven 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 4/17/2018 and 4/18/2017 to collect samples from 75 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 4/18/2017 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 Cresthaven Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06096		Hallway	Outside Of Apr	Cooler	<1.0	Pass	Testing Complete
LW06125		Hallway	Across From Cr 13	Cooler	<1.0	Pass	Testing Complete
LW06126	102A	Office Health Room		Faucet	4.0	Pass	Testing Complete
LW06127		Hallway	Outside Of Apr	Cooler	<1.0	Pass	Testing Complete
M08725	31	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08726	31	Classroom		Faucet	<1.0	Pass	Testing Complete
M08727	1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08728	1	Classroom		Faucet	<1.0	Pass	Testing Complete
M08729	5	Classroom		Faucet	<1.0	Pass	Testing Complete
M08730	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08731	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08732	7	Classroom		Faucet	<1.0	Pass	Testing Complete
M08733	11	Classroom		Faucet	<1.0	Pass	Testing Complete
M08734	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08735	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08736	13	Classroom		Faucet	<1.0	Pass	Testing Complete
M08737		Hallway	Across from CR 13	Cooler	<1.0	Pass	Testing Complete
M08741	17	Classroom		Faucet	<1.0	Pass	Testing Complete
M08742	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08744	19	Classroom		Faucet	<1.0	Pass	Testing Complete
M08749	23	Classroom		Faucet	<1.0	Pass	Testing Complete
M08750	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08751		Kitchen		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M08752		Kitchen		Faucet	<1.0	Pass	Testing Complete
M08753		Kitchen		Faucet	<1.0	Pass	Testing Complete
M08754		Kitchen		Faucet	<1.0	Pass	Testing Complete
M08757	137	Inst Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08758	137	Inst Music		Faucet	<1.0	Pass	Testing Complete
M08766	102	Health		Faucet	<1.0	Pass	Testing Complete
M08769		Office Health Room		Faucet	<1.0	Pass	Testing Complete
M08771	100C	Work Room Admin	inside Admin	Faucet	<1.0	Pass	Testing Complete
M08773	101	Music		Faucet	<1.0	Pass	Testing Complete
M08774	101	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08775	103A	Office Media Center	Inside Imc	Faucet	<1.0	Pass	Testing Complete
M08776	111	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08777	111	Classroom		Faucet	<1.0	Pass	Testing Complete
M08782		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
M08783		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
M08789	114	Break Room		Faucet	<1.0	Pass	Testing Complete
M08792	123	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08793	123	ESOL		Faucet	<1.0	Pass	Testing Complete
M08794	257	Resource		Faucet	<1.0	Pass	Testing Complete
M08795	257	Resource Center		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08796		Hallway	Across from CR 250	Cooler	<1.0	Pass	Testing Complete
M08797		Hallway	Across from CR 250	Cooler	<1.0	Pass	Testing Complete
M08798	250	Classroom		Faucet	<1.0	Pass	Testing Complete
M08799	250	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08800	248	Classroom		Faucet	<1.0	Pass	Testing Complete
M08801	248	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08808	242	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M08809	242	Classroom		Faucet	<1.0	Pass	Testing Complete
M08810	240	Classroom		Faucet	<1.0	Pass	Testing Complete
M08811	240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08812	202	Classroom		Faucet	<1.0	Pass	Testing Complete
M08813	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08814	206	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08815	206	Classroom		Faucet	<1.0	Pass	Testing Complete
M08816	203	Classroom		Faucet	<1.0	Pass	Testing Complete
M08817	203	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08818	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08819	207	Classroom		Faucet	<1.0	Pass	Testing Complete
M08820	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08821	213	Classroom		Faucet	<1.0	Pass	Testing Complete
M08826	219	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08827	219	Classroom		Faucet	<1.0	Pass	Testing Complete
M08828	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08829	222	Classroom		Faucet	<1.0	Pass	Testing Complete
M08830		Hallway	Next to CR 224	Cooler	<1.0	Pass	Testing Complete
M08831		Hallway	Next to CR 224	Cooler	<1.0	Pass	Testing Complete
M08832	224	Classroom		Bubbler - Indoor	3.6	Pass	Testing Complete
M08833	224	Classroom		Faucet	<1.0	Pass	Testing Complete
M08834	225	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08835	225	Classroom		Faucet	<1.0	Pass	Testing Complete
M08839	241	Classroom		Faucet	<1.0	Pass	Testing Complete
M08840	241	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

*PPB = parts per billion