



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 5, 2018

Executive Summary:
Westbrook Elementary School
5110 Allan Terrace
Bethesda, Maryland 20816

Round of Testing:	Initial
# of Outlets Tested:	71
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	14.9

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



June 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 #1214634193

Location: Westbrook Elementary School

5110 Allan Terrace
Bethesda, Maryland 20816

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 Westbrook Elementary School, located at 5110 Allan Terrace in Bethesda, Maryland 20816.

SCOPE OF SERVICES

KCI conducted lead in water testing at Westbrook 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 4/26/2018 and 4/27/2018 to collect samples from 71 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 4/27/2018 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 Westbrook Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04009		Hallway	Across From 131	Cooler	<1.0	Pass	Testing Complete
LW04010	133	Classroom		Faucet	2.5	Pass	Testing Complete
LW04011	133	Classroom		Bubbler - Indoor	2.4	Pass	Testing Complete
LW04012	132	Classroom		Faucet	4.4	Pass	Testing Complete
LW04013	132	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW04014	136	Classroom		Faucet	3.4	Pass	Testing Complete
LW04015	136	Classroom		Bubbler - Indoor	3.3	Pass	Testing Complete
LW04016		Hallway	Across From Gym	Cooler	<1.0	Pass	Testing Complete
LW04017		Hallway	Left Of B06	Cooler	<1.0	Pass	Testing Complete
LW04018	B11	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04019	B11	Classroom		Bubbler - Indoor	2.7	Pass	Testing Complete
LW04020	B11	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04021		Hallway	Entrance Of Atrium	Cooler	<1.0	Pass	Testing Complete
LW04022	302	Classroom		Faucet	3.6	Pass	Testing Complete
LW04024		Hallway	Across From 302	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04025	211	Classroom		Faucet	14.9	Pass	Testing Complete
LW04026	211	Classroom		Bubbler - Indoor	2.9	Pass	Testing Complete
LW04027		Hallway	To The Left Of 229	Cooler	<1.0	Pass	Testing Complete
LW04028	214	Classroom		Faucet	1.8	Pass	Testing Complete
LW04030	126	Team Room		Faucet	<1.0	Pass	Testing Complete
LW04031	128	Classroom		Faucet	2.2	Pass	Testing Complete
LW04032	128	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW04033	130	Classroom		Faucet	2.3	Pass	Testing Complete
LW04034	130	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW04035		Hallway	Entrance Of Atrium	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04036	106	Classroom		Faucet	1.1	Pass	Testing Complete
LW04037	106	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04038	105	Classroom		Faucet	2.5	Pass	Testing Complete
LW04040	104	Classroom		Faucet	5.1	Pass	Testing Complete
LW04041	104	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW10498	204	Classroom		Faucet	2.6	Pass	Testing Complete
LW10499	204	Classroom		Bubbler - Indoor	2.4	Pass	Testing Complete
LW10500	205	Classroom		Faucet	2.9	Pass	Testing Complete
LW10502	301	Classroom		Faucet	3.9	Pass	Testing Complete
LW10503	301	Classroom		Bubbler - Indoor	9.9	Pass	Testing Complete
M13275		Kitchen		Faucet	1.0	Pass	Testing Complete
M13276		Kitchen		Faucet	2.2	Pass	Testing Complete
M13277		Kitchen		Faucet	2.1	Pass	Testing Complete
M13278		Kitchen		Faucet	1.8	Pass	Testing Complete
M31096	225	Classroom		Faucet	<1.0	Pass	Testing Complete
M31097	225	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31098	223	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31099	223	Classroom		Faucet	<1.0	Pass	Testing Complete
M31100	219	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31101	219	Classroom		Faucet	<1.0	Pass	Testing Complete
M31102	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31103	217	Classroom		Faucet	<1.0	Pass	Testing Complete
M31108	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31109	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M31111	200A	Health		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31112	200A	Health		Faucet	<1.0	Pass	Testing Complete
M31122	120	Classroom		Faucet	<1.0	Pass	Testing Complete
M31123	120	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31124	116	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M31125	116	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31126	121	Classroom		Faucet	<1.0	Pass	Testing Complete
M31127	121	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31128	117	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31129	117	Classroom		Faucet	<1.0	Pass	Testing Complete
M31130	114	Classroom		Faucet	<1.0	Pass	Testing Complete
M31131	114	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31132	115	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31133	115	Classroom		Faucet	<1.0	Pass	Testing Complete
M31134	111	Classroom		Faucet	<1.0	Pass	Testing Complete
M31135	111	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31151	B06	Classroom		Faucet	<1.0	Pass	Testing Complete
M31152	B06	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31154	B08	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31155	B08	Classroom		Faucet	<1.0	Pass	Testing Complete
M31157	B09	Classroom		Faucet	<1.0	Pass	Testing Complete
M31158	B09	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

*PPB = parts per billion