



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 14, 2018

Executive Summary:

Spark M. Matsunaga Elementary School (including Longview School)

13902 Bromfield Road
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	73
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	4.8

Project Status:

Testing Complete: All results less than 20 ppb.



May 14, 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: Spark M. Matsunaga Elementary School (including Longview School)

13902 Bromfield Road
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 Spark M. Matsunaga Elementary School (including Longview School), located at 13902 Bromfield Road in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at Spark M. Matsunaga Elementary School (including Longview 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 4/23/2018 and 4/24/2018 to collect samples from 73 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 4/24/2018 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 Spark M. Matsunaga Elementary School (including Longview School)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03837	100	Hallway Administration	Outside Of 100f	Cooler	<1.0	Pass	Testing Complete
LW03838	132	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03839	126	All Purpose Room		Cooler	<1.0	Pass	Testing Complete
LW03840	126	All Purpose Room		Cooler	<1.0	Pass	Testing Complete
LW03841	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03842		Hallway	Outside Of 102	Cooler	<1.0	Pass	Testing Complete
LW03843		Hallway	Outside Of 102	Cooler	<1.0	Pass	Testing Complete
LW03844		Hallway	Outside Of 102	Cooler	<1.0	Pass	Testing Complete
LW03845		Hallway	Outside Of 102	Cooler	<1.0	Pass	Testing Complete
LW03846		Hallway	Outside 134	Cooler	<1.0	Pass	Testing Complete
LW03847		Hallway	Outside Of 134	Cooler	<1.0	Pass	Testing Complete
LW03848	161	Classroom		Cooler	<1.0	Pass	Testing Complete
LW03849	164	Classroom		Faucet	1.1	Pass	Testing Complete
LW03850	165	Classroom		Cooler	<1.0	Pass	Testing Complete
LW03853		Hallway	Outside Of 113a	Cooler	<1.0	Pass	Testing Complete
LW03854		Hallway	Outside Of 113a	Cooler	<1.0	Pass	Testing Complete
LW03855		Hallway	Outside Of 113a	Cooler	<1.0	Pass	Testing Complete
LW03856		Hallway	Outside Of 113a	Cooler	<1.0	Pass	Testing Complete
M16245	100H	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
M16248		Hallway	Next to Rm 100F	Faucet	<1.0	Pass	Testing Complete
M16249	100B	Conference Room		Faucet	2.4	Pass	Testing Complete
M16253	100K	Health		Faucet	<1.0	Pass	Testing Complete
M16254	100K	Health		Faucet	<1.0	Pass	Testing Complete
M16262		Hallway	Across from CR 104	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M16263		Hallway	Across from CR 104	Cooler	<1.0	Pass	Testing Complete
M16264		Hallway	Across from CR 104	Cooler	<1.0	Pass	Testing Complete
M16265	103A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16266	103A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16271	107A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16272	107A	Classroom	of 109	Bubbler - Indoor	<1.0	Pass	Testing Complete
M16273	113A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16274	113A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16276		Hallway	Across From Rm 126	Cooler	<1.0	Pass	Testing Complete
M16277		Hallway	Across from Rm 130	Cooler	<1.0	Pass	Testing Complete
M16278		Hallway	Across from Rm 130	Cooler	<1.0	Pass	Testing Complete
M16279	117A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16280	117A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16288	123A	Classroom		Faucet	1.5	Pass	Testing Complete
M16289	123A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M16290	127A	Classroom		Faucet	<1.0	Pass	Testing Complete
M16291	127A	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M16295	130	Classroom		Faucet	<1.0	Pass	Testing Complete
M16301		Kitchen		Faucet	<1.0	Pass	Testing Complete
M16303		Kitchen		Faucet	4.4	Pass	Testing Complete
M16304		Kitchen		Faucet	<1.0	Pass	Testing Complete
M16305		Kitchen		Faucet	<1.0	Pass	Testing Complete
M45439		Work Room Media Center		Faucet	4.8	Pass	Testing Complete
M45440	112	Classroom		Faucet	<1.0	Pass	Testing Complete
M45443	161	Classroom		Faucet	1.3	Pass	Testing Complete
M45445	160	Classroom		Cooler	<1.0	Pass	Testing Complete
M45446	160	Classroom		Faucet	<1.0	Pass	Testing Complete
M45447	165	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M45452	164	Classroom		Cooler	<1.0	Pass	Testing Complete
M45453		Hallway	Next Rm 017	Cooler	<1.0	Pass	Testing Complete
M45455		Hallway	Next Rm 017	Cooler	<1.0	Pass	Testing Complete
M45456		Hallway	Next Rm 017	Cooler	<1.0	Pass	Testing Complete
M45458		Hallway	Lower Level Next Stairs	Cooler	<1.0	Pass	Testing Complete
M45459		Hallway	Lower Level Next Stairs	Cooler	<1.0	Pass	Testing Complete
M45461	15A	Classroom		Faucet	<1.0	Pass	Testing Complete
M45462	15A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M45471	12A	Classroom		Faucet	<1.0	Pass	Testing Complete
M45472	12A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M45473	11A	Classroom		Faucet	<1.0	Pass	Testing Complete
M45474	11A	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M46145	151A	Kitchen		Faucet	<1.0	Pass	Testing Complete
M46148	147A	Classroom		Faucet	<1.0	Pass	Testing Complete
M46153	143A	Classroom		Faucet	<1.0	Pass	Testing Complete
M46155	137A	Classroom		Faucet	<1.0	Pass	Testing Complete
M46160	134	Classroom		Faucet	<1.0	Pass	Testing Complete
M46161	134	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M46162	134	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M46163	134	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
M46164	134	Classroom	Outside Of	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion