



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 26, 2018

Executive Summary:

Somerset Elementary School

5811 Warwick Place

Chevy Chase, Maryland 20815

Round of Testing:	Initial
# of Outlets Tested:	66
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	1.4

Project Status:

Testing Complete: All results less than 20 ppb.



June 26, 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: Somerset Elementary School

5811 Warwick Place
Chevy Chase, Maryland 20815

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 Somerset Elementary School, located at 5811 Warwick Place in Chevy Chase, Maryland 20815.

SCOPE OF SERVICES

KCI conducted lead in water testing at Somerset 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 66 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 Somerset Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06253	1	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06254	1	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06255	28	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06256	28	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06257	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06258	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06259	113	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06260	229	Classroom		Cooler	<1.0	Pass	Testing Complete
LW06261	229	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06262	205	Classroom		Faucet	1.4	Pass	Testing Complete
LW06263	205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06264	207	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06265	207	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06266	315	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06267	315	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06268	313	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06269	313	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06270	313	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06271	323	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06272	323	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06273	307	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06274	307	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06275	131	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06276	131	Classroom	Across From	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M06470	122	Health Room		Faucet	<1.0	Pass	Testing Complete
M06472	100C	Work Room Admin		Faucet	<1.0	Pass	Testing Complete
M06477	131	Classroom		Faucet	<1.0	Pass	Testing Complete
M06479	125	Classroom		Faucet	<1.0	Pass	Testing Complete
M06481	123	Classroom		Faucet	<1.0	Pass	Testing Complete
M06482	123	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06485	135	Classroom		Faucet	1.2	Pass	Testing Complete
M06486	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06502	101A	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M06503	208	Classroom		Faucet	<1.0	Pass	Testing Complete
M06504	208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06509	207	Classroom		Faucet	<1.0	Pass	Testing Complete
M06510	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06511	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M06512	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06513	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M06514	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06518	211	Classroom		Faucet	<1.0	Pass	Testing Complete
M06519	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06520	213	Classroom		Faucet	<1.0	Pass	Testing Complete
M06521	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06522	214	Classroom		Faucet	<1.0	Pass	Testing Complete
M06524	216	Classroom		Faucet	<1.0	Pass	Testing Complete
M06525	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06528	221	Classroom		Faucet	<1.0	Pass	Testing Complete
M06529	221	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
M06533	218	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M06534	218	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06538	17	Classroom		Faucet	1.1	Pass	Testing Complete
M06539	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06541	32	Classroom		Faucet	<1.0	Pass	Testing Complete
M06542	32	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06548	11	Classroom		Faucet	<1.0	Pass	Testing Complete
M06549	11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06555	15	Classroom		Faucet	<1.0	Pass	Testing Complete
M06556	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06569	9	Classroom		Faucet	<1.0	Pass	Testing Complete
M06570	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M06572		Kitchen		Faucet	<1.0	Pass	Testing Complete
M06573		Kitchen		Faucet	<1.0	Pass	Testing Complete
M06574		Kitchen		Faucet	<1.0	Pass	Testing Complete
M06575		Kitchen		Faucet	<1.0	Pass	Testing Complete

*PPB = parts per billion