



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Georgian Forest Elementary School

3100 Regina Drive

Silver Spring, Maryland 20906

Date of Test Report:	3/14/2018
Round of Testing:	Initial
# of Outlets Tested:	95
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	3.4

Project Status:

Initial testing complete; All results less than 20 ppb.



3/14/2018

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
Division of Maintenance
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634186

Location: Georgian Forest Elementary School

3100 Regina Drive
Silver Spring, Maryland 20906

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 Georgian Forest Elementary School, located at 3100 Regina Drive in Silver Spring, Maryland 20906.

SCOPE OF SERVICES

KCI conducted lead in water testing at Georgian Forest 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 1/29/2018 and 1/30/2018 to collect samples from 95 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 1/30/2018 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 Georgian Forest ES

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02501	107	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW02502	107	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02505	117	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW02506	117	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02507	118	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW02508	118	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02509	115	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02510	115	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02511	112	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02512	112	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02513	111	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02514	111	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02515	110	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02516	110	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02517	120	Art		Faucet	<1.0	Pass	Testing Complete
LW02518	120	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02519	121	Music		Faucet	<1.0	Pass	Testing Complete
LW02520	121	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02521	122	Music		Faucet	<1.0	Pass	Testing Complete
LW02522	122	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02523	126	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02524	126	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02525	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02526	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02527		Hallway Gymnasium	In Front Of	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02528	102	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02529	102	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02530	103	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02531	103	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02532	101	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02533	101	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02534	104	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02535	104	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02536	100	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02537	100	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02538	105	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02539	105	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02540		Kitchen		Faucet	2.5	Pass	Testing Complete
LW02541		Kitchen		Faucet	2	Pass	Testing Complete
LW02542		Kitchen		Faucet	1.7	Pass	Testing Complete
LW02543	201	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02544	201	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02545		Hallway Media Center	Outside Of	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02566		Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW02567		Break Room	Across From Main Office	Faucet	<1.0	Pass	Testing Complete
LW02568	119	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02569	119	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02570	210	Classroom		Faucet	2.2	Pass	Testing Complete
LW02571	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02572	209	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02573	209	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02574	208	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02575	208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02576	207	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02577	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02578	206	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02579	206	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02580	205	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02581	205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02582	211	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02583	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02584	213	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02585	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02586	214	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02587	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02588	216	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02589	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02590	217	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02591	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02592	219	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02593	219	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02594	220	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02595	220	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02596	222	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02597	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02598	223	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02599	223	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02600	200	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02601	200	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M04068		Health Room Administration	Inside Of	Faucet	<1.0	Pass	Testing Complete
M04072		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M04090		Hallway	Hall Outside APR	Cooler	<1.0	Pass	Testing Complete
M04096		Kitchen		Faucet	3.4	Pass	Testing Complete
M31387	225	Classroom		Faucet	<1.0	Pass	Testing Complete
M31388	225	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31389		Hallway	Across From CR 223	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M31390		Hallway	Across From CR 223	Cooler	<1.0	Pass	Testing Complete
M31414	229	Classroom		Faucet	<1.0	Pass	Testing Complete
M31415	229	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31416	231	Classroom		Faucet	<1.0	Pass	Testing Complete
M31417	231	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31420	232	Classroom		Faucet	<1.0	Pass	Testing Complete
M31421	232	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M31424	234	Classroom		Faucet	<1.0	Pass	Testing Complete
M31425	234	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

*PPB = parts per billion