



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Flora Singer Elementary School

2600 Hayden Drive

Silver Spring, Maryland 20902

Date of Test Report:	3/9/2018
Round of Testing:	Initial
# of Outlets Tested:	99
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	2.1

Project Status:

Initial testing complete; All results less than 20 ppb.



3/9/2018

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: Flora Singer Elementary School

2600 Hayden Drive
Silver Spring, Maryland 20902

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 Flora Singer Elementary School, located at 2600 Hayden Drive in Silver Spring, Maryland 20902.

SCOPE OF SERVICES

KCI conducted lead in water testing at Flora Singer 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 2/20/2018 and 2/21/2018 to collect samples from 99 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 2/21/2018 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 Flora Singer ES

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05101	204	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05102	221	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05103	137	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05104	104	Break Room		Faucet	<1.0	Pass	Testing Complete
M30230	102	Health Room Health		Faucet	1.1	Pass	Testing Complete
M30231	102A	Office Health	inside Health	Faucet	1.3	Pass	Testing Complete
M30232	102B	Office Health	inside Health	Faucet	<1.0	Pass	Testing Complete
M30234	100JC	Work Room Admin	inside Admin	Faucet	<1.0	Pass	Testing Complete
M30240		Kitchen Kitchen	inside Kitchen	Faucet	<1.0	Pass	Testing Complete
M30241		Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
M30242		Kitchen Kitchen		Faucet	<1.0	Pass	Testing Complete
M30243		Kitchen	By Windows inside Kitchen	Faucet	<1.0	Pass	Testing Complete
M30247		Hallway	Across from 109 APR	Cooler	<1.0	Pass	Testing Complete
M30248		Hallway	Across from 109 APR	Cooler	<1.0	Pass	Testing Complete
M30259	113	Classroom Music		Faucet	1.3	Pass	Testing Complete
M30260	113	Classroom Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30261	115	Classroom Music		Faucet	3.4	Pass	Testing Complete
M30262	115	Classroom Music		Bubbler - Indoor	1.2	Pass	Testing Complete
M30263	121	Classroom		Faucet	<1.0	Pass	Testing Complete
M30264	121	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30265	121	Classroom		Faucet	1.4	Pass	Testing Complete
M30266	114	Classroom Art		Faucet	<1.0	Pass	Testing Complete
M30267	114	Classroom Art		Faucet	<1.0	Pass	Testing Complete
M30268	114	Classroom Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30270	122	Classroom		Faucet	<1.0	Pass	Testing Complete
M30271	122	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M30272	129	Classroom		Faucet	<1.0	Pass	Testing Complete
M30273	129	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30276	128	Classroom		Faucet	1.1	Pass	Testing Complete
M30278	133	Classroom		Faucet	1.2	Pass	Testing Complete
M30280	130	Classroom		Faucet	1.9	Pass	Testing Complete
M30281	130	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30283	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30285	134	Classroom		Faucet	<1.0	Pass	Testing Complete
M30286	134	Classroom		Bubbler - Indoor	1	Pass	Testing Complete
M30287	141	Classroom		Faucet	1	Pass	Testing Complete
M30288	141	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30289	252	Classroom		Faucet	2.7	Pass	Testing Complete
M30290	252	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30292	221	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30293	248	Classroom		Faucet	1.1	Pass	Testing Complete
M30294	248	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30295	217	Classroom		Faucet	<1.0	Pass	Testing Complete
M30296	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30297	246	Classroom		Faucet	<1.0	Pass	Testing Complete
M30298	246	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30299	215	Classroom		Faucet	<1.0	Pass	Testing Complete
M30300	215	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30301	240	Classroom		Faucet	<1.0	Pass	Testing Complete
M30302	240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30303	209	Classroom		Faucet	<1.0	Pass	Testing Complete
M30304	209	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30306	207	Classroom		Faucet	<1.0	Pass	Testing Complete
M30307	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30308	234	Classroom		Faucet	<1.0	Pass	Testing Complete
M30310	203	Classroom		Faucet	1.2	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M30312	201	Classroom		Faucet	<1.0	Pass	Testing Complete
M30313	201	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30314	228	Classroom		Faucet	<1.0	Pass	Testing Complete
M30315	228	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30316		Hallway	Next to Upper Level Elevator and Rm 220	Cooler	<1.0	Pass	Testing Complete
M30317		Hallway	Next to Upper Level Elevator and Rm 220	Cooler	<1.0	Pass	Testing Complete
M30328	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M30329	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30330	206	Classroom		Faucet	<1.0	Pass	Testing Complete
M30331	206	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30333	204	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30334	200	Classroom		Faucet	<1.0	Pass	Testing Complete
M30335	200	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30336	15	Classroom		Faucet	<1.0	Pass	Testing Complete
M30337	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30339	7	Classroom		Faucet	1.4	Pass	Testing Complete
M30340	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30341	19	Classroom		Faucet	<1.0	Pass	Testing Complete
M30342	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30343	21	Classroom		Faucet	<1.0	Pass	Testing Complete
M30344	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30347	27	Classroom		Faucet	2.7	Pass	Testing Complete
M30348	27	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30349	29	Classroom		Faucet	<1.0	Pass	Testing Complete
M30350	29	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30351	35	Classroom		Faucet	<1.0	Pass	Testing Complete
M30352	35	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30353	39	Classroom		Faucet	<1.0	Pass	Testing Complete
M30354	39	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30357	22	Classroom		Faucet	1.2	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M30358	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30360	43	Classroom		Faucet	1	Pass	Testing Complete
M30361	43	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30363	45	Classroom		Faucet	<1.0	Pass	Testing Complete
M30364	45	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30366	24	Classroom		Faucet	1.1	Pass	Testing Complete
M30367	24	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30369	49	Classroom		Faucet	<1.0	Pass	Testing Complete
M30370	49	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M30372	28	Classroom		Faucet	2.1	Pass	Testing Complete
M30373	28	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
M30375		Hallway	Next to Gym	Cooler	<1.0	Pass	Testing Complete
M30376		Hallway	Next to Gym	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion