



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 24, 2018

Executive Summary:

Dr. Charles R. Drew Elementary School

1200 Swingingdale Drive
Silver Spring, Maryland 20904

Round of Testing:	Initial
# of Outlets Tested:	74
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	17.5

Project Status:

Testing Complete: All results less than 20 ppb.



May 24, 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: Dr. Charles R. Drew Elementary School

1200 Swingingdale Drive
Silver Spring, Maryland 20904

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 Dr. Charles R. Drew Elementary School, located at 1200 Swingingdale Drive in Silver Spring, Maryland 20904.

SCOPE OF SERVICES

KCI conducted lead in water testing at Dr. Charles R. Drew 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 4/18/2018 and 4/19/2018 to collect samples from 74 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 4/19/2018 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 Dr. Charles R. Drew Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05777		Health Room		Faucet	<1.0	Pass	Testing Complete
LW05778		Hallway	Across From Cr 16	Cooler	<1.0	Pass	Testing Complete
LW05790	15	Classroom		Faucet	2.6	Pass	Testing Complete
LW05791	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05792	20	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05793	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05794	14	Classroom		Faucet	1.6	Pass	Testing Complete
LW05795	14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05796	13	Classroom		Faucet	1.2	Pass	Testing Complete
LW05797	13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05798	18	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05799	18	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05800	19	Classroom		Faucet	1.4	Pass	Testing Complete
LW05801	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05802	17	Classroom		Faucet	2.4	Pass	Testing Complete
LW05803	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05804	12	Classroom		Faucet	1.4	Pass	Testing Complete
LW05805	12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05806	1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05807	2	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05809	6	Classroom		Faucet	1.2	Pass	Testing Complete
LW05810	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05811	3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05812	4	Classroom		Faucet	1.1	Pass	Testing Complete
LW05813	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05814	7	Classroom		Faucet	7.4	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05815	7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05816	5	Classroom		Faucet	1.6	Pass	Testing Complete
LW05817	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05818	8	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05819	8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05820	9	Classroom		Faucet	1.5	Pass	Testing Complete
LW05821	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05822	10	Classroom		Faucet	1.1	Pass	Testing Complete
LW05823	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05824	11	ESOL		Faucet	1.6	Pass	Testing Complete
LW05825	11	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05826	K4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05827	K4	Classroom		Faucet	1.7	Pass	Testing Complete
LW05828	K3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06098		Hallway	Across From Cr 21	Cooler	<1.0	Pass	Testing Complete
LW06099	21	Classroom		Faucet	1.2	Pass	Testing Complete
LW06100	16	Classroom		Faucet	1.9	Pass	Testing Complete
LW06101	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06128	K3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06129		Hallway	Across From K4	Cooler	<1.0	Pass	Testing Complete
LW06130		Hallway	Across From K4	Cooler	<1.0	Pass	Testing Complete
LW06132		Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06133	K2	Classroom		Faucet	2.8	Pass	Testing Complete
LW06134	K2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06135	K1	Classroom		Faucet	3.2	Pass	Testing Complete
LW06136	K1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06137		Kitchen		Faucet	2.3	Pass	Testing Complete
LW06138		Kitchen		Faucet	3.7	Pass	Testing Complete
LW06139		Hallway	Across From 5a	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06140		Hallway	Across From 5a	Cooler	<1.0	Pass	Testing Complete
M37363		Hallway	Across from CR 5	Cooler	<1.0	Pass	Testing Complete
M37364		Hallway	Across from CR 5	Cooler	<1.0	Pass	Testing Complete
M37381	1	Classroom		Faucet	4.4	Pass	Testing Complete
M37384	5A	Classroom	Near APR Rm	Faucet	2.8	Pass	Testing Complete
M37385		Kitchen		Faucet	1.2	Pass	Testing Complete
M37402		Music	Across From Mpr	Faucet	4.5	Pass	Testing Complete
M37405		Work Room Admin		Faucet	1.1	Pass	Testing Complete
M37408	K1	Classroom		Faucet	17.5	Pass	Testing Complete
M37412	K2	Classroom		Faucet	3.5	Pass	Testing Complete
M37417		Music		Faucet	5.4	Pass	Testing Complete
M37418		Dual Purpose Room		Faucet	1.5	Pass	Testing Complete
M37424	K3	Classroom		Faucet	2.7	Pass	Testing Complete
M37429	K4	Classroom		Faucet	1.1	Pass	Testing Complete
M37435		Office Media Center		Faucet	2.8	Pass	Testing Complete
M37448	29	Reading		Faucet	<1.0	Pass	Testing Complete
M37450	24	Break Room		Faucet	1.1	Pass	Testing Complete
M37453	22	Staff Development		Faucet	<1.0	Pass	Testing Complete
M37467		Hallway	Across from CR 16	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion