



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 15, 2018

Executive Summary:

Waters Landing Elementary School

13100 Waters Landing Drive
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	99
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	7.6

Project Status:

Testing Complete: All results less than 20 ppb.



May 15, 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: Waters Landing Elementary School

13100 Waters Landing Drive
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 Waters Landing Elementary School, located at 13100 Waters Landing Drive in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at Waters Landing 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 4/17/2018 and 4/18/2018 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 4/18/2018 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 Waters Landing Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05920	100B	Health Room		Faucet	2.1	Pass	Testing Complete
LW05921	100A	Work Room		Faucet	6.1	Pass	Testing Complete
LW05922		Hallway All Purpose Room	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW05923	147	Break Room		Faucet	1.2	Pass	Testing Complete
LW05924	137	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW05925	113	Classroom		Faucet	2.9	Pass	Testing Complete
LW05926	113	Classroom		Bubbler - Indoor	2.8	Pass	Testing Complete
LW05927	213	Classroom		Faucet	2.0	Pass	Testing Complete
LW05928	213	Classroom		Bubbler - Indoor	2.3	Pass	Testing Complete
LW05929	209	Classroom		Faucet	2.2	Pass	Testing Complete
LW05930	209	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
LW05931	203	Classroom		Faucet	3.9	Pass	Testing Complete
LW05932	203	Classroom		Bubbler - Indoor	4.3	Pass	Testing Complete
LW05933	201	Classroom		Faucet	1.4	Pass	Testing Complete
LW05934	201	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
LW05935	206	Classroom		Faucet	1.1	Pass	Testing Complete
LW05937	208	Break Room		Faucet	2.4	Pass	Testing Complete
M25267	159	Kitchen All Purpose Room		Faucet	<1.0	Pass	Testing Complete
M25269	100H	Assistant Principal Administration		Faucet	2.7	Pass	Testing Complete
M25270	166	Classroom		Faucet	1.7	Pass	Testing Complete
M25271	166	Classroom		Bubbler - Indoor	2.0	Pass	Testing Complete
M25273	167	Classroom		Faucet	1.5	Pass	Testing Complete
M25274	167	Classroom		Bubbler - Indoor	3.0	Pass	Testing Complete
M25284		Break Room All Purpose Room		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M25288	159	Kitchen		Faucet	1.3	Pass	Testing Complete
M25289	159	Kitchen All Purpose Room		Faucet	1.5	Pass	Testing Complete
M25290	159	Kitchen All Purpose Room		Faucet	3.1	Pass	Testing Complete
M25300	145	Classroom		Faucet	1.5	Pass	Testing Complete
M25301	145	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
M25302	143	Classroom		Faucet	2.4	Pass	Testing Complete
M25303	143	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
M25304	141	Classroom		Faucet	1.9	Pass	Testing Complete
M25305	141	Classroom		Bubbler - Indoor	3.0	Pass	Testing Complete
M25306	139	Classroom		Faucet	7.6	Pass	Testing Complete
M25307	139	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
M25308	137	Classroom		Faucet	3.8	Pass	Testing Complete
M25309	137	Classroom		Bubbler - Indoor	3.6	Pass	Testing Complete
M25314	245	Classroom		Faucet	3.1	Pass	Testing Complete
M25316	243	Classroom		Faucet	4.6	Pass	Testing Complete
M25317	243	Classroom		Bubbler - Indoor	3.9	Pass	Testing Complete
M25318	241	Classroom		Faucet	3.0	Pass	Testing Complete
M25319	241	Classroom		Bubbler - Indoor	2.9	Pass	Testing Complete
M25320	239	Classroom		Faucet	4.9	Pass	Testing Complete
M25321	239	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
M25322	237	Classroom		Faucet	2.7	Pass	Testing Complete
M25323	237	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
M25324	237	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
M25328	211	Classroom		Faucet	1.7	Pass	Testing Complete
M25329	211	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
M25332	215	Classroom		Faucet	2.8	Pass	Testing Complete
M25333	215	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
M25338	207	Classroom		Faucet	1.7	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M25339	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25340	205	Classroom		Faucet	1.8	Pass	Testing Complete
M25341	1205	Classroom		Bubbler - Indoor	2.4	Pass	Testing Complete
M25346	202	Classroom		Faucet	1.6	Pass	Testing Complete
M25347	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25348	204	Classroom		Faucet	2.1	Pass	Testing Complete
M25349	204	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M25364	109	Classroom		Faucet	2.3	Pass	Testing Complete
M25365	109	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
M25366	111	Classroom		Faucet	3.9	Pass	Testing Complete
M25367	111	Classroom		Bubbler - Indoor	6.1	Pass	Testing Complete
M25370	115	Classroom		Faucet	2.9	Pass	Testing Complete
M25371	115	Classroom		Bubbler - Indoor	6.8	Pass	Testing Complete
M25373	107	Classroom		Faucet	2.3	Pass	Testing Complete
M25380	106	Media Center Office		Faucet	4.4	Pass	Testing Complete
M25381	101	Music		Faucet	4.9	Pass	Testing Complete
M32382	219	Classroom		Faucet	<1.0	Pass	Testing Complete
M32383	219	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M32385	225	Classroom		Faucet	<1.0	Pass	Testing Complete
M32386	225	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32400	229	Classroom		Faucet	<1.0	Pass	Testing Complete
M32401	229	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32402	231	Classroom		Faucet	<1.0	Pass	Testing Complete
M32403	231	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32404	235	Classroom		Faucet	<1.0	Pass	Testing Complete
M32405	235	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32406	119	Classroom		Faucet	1.7	Pass	Testing Complete
M32407	119	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M32408	121	Classroom		Faucet	1.1	Pass	Testing Complete
M32410	125	Classroom		Faucet	<1.0	Pass	Testing Complete
M32411	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32418	131	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
M32419	131	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
M32426	131	Classroom		Faucet	<1.0	Pass	Testing Complete
M32427	131	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32428	135	Classroom		Faucet	<1.0	Pass	Testing Complete
M32429	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32430	170	Classroom		Faucet	<1.0	Pass	Testing Complete
M32431	170	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32434	173	Classroom		Faucet	<1.0	Pass	Testing Complete
M32435	173	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32437	169	Classroom		Faucet	1.3	Pass	Testing Complete
M32438	169	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32440	174	Classroom		Faucet	<1.0	Pass	Testing Complete
M32441	174	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M32443	176	Classroom		Faucet	<1.0	Pass	Testing Complete
M32444	176	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

*PPB = parts per billion