



## Montgomery County Public Schools Lead in Drinking Water Testing 2018

### Executive Summary:

#### Arcola Elementary School

1820 Franwall Avenue

Silver Spring, Maryland 20902

Date of Test Report:	3/19/2018
Round of Testing:	Initial
# of Outlets Tested:	93
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	11

### Project Status:

Initial testing complete: All results less than 20 ppb.



3/19/2018

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: Arcola Elementary School**

1820 Franwall Avenue  
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 Arcola Elementary School, located at 1820 Franwall Avenue in Silver Spring, Maryland 20902.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Arcola 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 2/12/2018 and 2/13/2018 to collect samples from 93 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.

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## **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 2/13/2018 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

ATTACHMENT A

Lead in Water Test Summary Table

**Contractor:** KCI Technologies, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Sample Results for Arcola Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03004	151	Kitchen Cafeteria	Inside Of	Icemaker	1.6	Pass	Testing Complete
LW03005	151	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03006	151	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW03007	101	Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW03021	101	Cafeteria		Cooler	<1.0	Pass	Testing Complete
LW03024	21	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03025	21	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03026	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03027	004	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03028	004	Classroom		Faucet	1.1	Pass	Testing Complete
LW03029	016	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03030	016	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03031	018	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03032	018	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW03033	022	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03034	022	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03035	024	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03036	024	Classroom		Faucet	1.8	Pass	Testing Complete
LW03037	028	Classroom		Faucet	2	Pass	Testing Complete
LW03038	028	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03041	040	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03042	040	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03043	044	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03044	044	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03045	54	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03229	101	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW03230	009	Classroom		Faucet	1	Pass	Testing Complete
LW03231	009	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03232	013	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03233	013	Classroom		Faucet	1.2	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03234	015	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03235	015	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03236	019	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03237	019	Classroom		Faucet	1.2	Pass	Testing Complete
LW03238	027	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03239	027	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03240	031	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03241	031	Classroom		Faucet	1.1	Pass	Testing Complete
LW03242	127	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03243	154	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03244	154	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03245	152	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03246	152	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03247	021	Day Care Academic Support Office		Cooler	<1.0	Pass	Testing Complete
LW03248	006	Resource Center		Faucet	2	Pass	Testing Complete
LW03249	012	Classroom		Faucet	2.6	Pass	Testing Complete
LW03250	012	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03251	003	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03252	003	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03253	007	Classroom		Bubbler - Indoor	1	Pass	Testing Complete
LW03254	007	Classroom		Faucet	1.2	Pass	Testing Complete
LW03346	050	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03347	050	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW03348	052	Classroom		Faucet	<1.0	Pass	Testing Complete
LW03349	052	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07413	102	Health Room		Faucet	<1.0	Pass	Testing Complete
M07414	102C	Exam Health		Faucet	<1.0	Pass	Testing Complete
M07416	100F	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
M07418	112	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07419	112	Classroom		Faucet	1	Pass	Testing Complete
M07420	109	Classroom		Faucet	1	Pass	Testing Complete
M07421	109	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07423	116	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M07423	116	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07424	113	Classroom		Faucet	2.3	Pass	Testing Complete
M07425	113	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07426	118	Classroom		Faucet	2.4	Pass	Testing Complete
M07427	118	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07428	115	Classroom		Faucet	<1.0	Pass	Testing Complete
M07429	115	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07430	122	Classroom		Faucet	<1.0	Pass	Testing Complete
M07431	122			Bubbler - Indoor	<1.0	Pass	Testing Complete
M07432	119	Classroom		Faucet	2.2	Pass	Testing Complete
M07433	119	Classroom		Bubbler - Indoor	4.9	Pass	Testing Complete
M07447	134	Classroom		Faucet	<1.0	Pass	Testing Complete
M07448	134	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07449	127	Classroom		Faucet	<1.0	Pass	Testing Complete
M07451	138	Classroom		Faucet	<1.0	Pass	Testing Complete
M07452	138	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07453	131	Classroom		Faucet	1.2	Pass	Testing Complete
M07454	131	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M07455	107A	Material Prep Area	Behind 105C IMC Office	Faucet	<1.0	Pass	Testing Complete
M07456	107A	Material Prep	Behind 105C IMC Office	Bubbler - Indoor	11	Pass	Testing Complete
M07462	151	Kitchen		Faucet	3	Pass	Testing Complete
M07463	151	Kitchen		Faucet	1.1	Pass	Testing Complete
M07483		Hallway	Between Art and Music Rm	Cooler	<1.0	Pass	Testing Complete
M33051	53	Hallway	Across From Rm 53	Cooler	<1.0	Pass	Testing Complete
M33052	53	Hallway	Across From Rm 53	Cooler	<1.0	Pass	Testing Complete
M33058	153	Hallway	Outside	Cooler	<1.0	Pass	Testing Complete
M33059	153	Hallway	Outside	Cooler	<1.0	Pass	Testing Complete
M33063	150	Classroom		Faucet	<1.0	Pass	Testing Complete
M33064	148	Classroom		Faucet	<1.0	Pass	Testing Complete
M33098	54	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete

\*PPB = parts per billion