



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

June 1, 2018

### Executive Summary:

#### Ronald A. McNair Elementary School

13881 Hopkins Road

Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	73
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	3.2

### Project Status:

**Testing Complete: All results less than 20 ppb.**



June 1, 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: Ronald A. McNair Elementary School**

13881 Hopkins Road  
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 Ronald A. McNair Elementary School, located at 13881 Hopkins Road in Germantown, Maryland 20874.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Ronald A. McNair 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 4/25/2018 and 4/26/2018 to collect samples from 73 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 4/26/2018 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 Ronald A. McNair Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04126		Health Room		Faucet	1.2	Pass	Testing Complete
LW04127		Media Center		Faucet	1.2	Pass	Testing Complete
LW04128	2	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04129	2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04130		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW04131		Team Room		Instant Hot Water	<1.0	Pass	Testing Complete
LW04132		Team Room		Faucet	<1.0	Pass	Testing Complete
LW04133		Hallway	Across From 9	Cooler	<1.0	Pass	Testing Complete
LW04134		Hallway	Outside Of Mpr	Cooler	<1.0	Pass	Testing Complete
LW04135	K1	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04136	K1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04137	K2	Classroom		Faucet	2.9	Pass	Testing Complete
LW04138	K2	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW04139	K3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04140	K3	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW04141	K4	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04142	K4	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
LW04143		Hallway	To The Right Of 11	Cooler	<1.0	Pass	Testing Complete
LW04144	11	Classroom		Faucet	1.2	Pass	Testing Complete
LW04145	11	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW04146	13	Classroom		Faucet	1.2	Pass	Testing Complete
LW04147	13	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
LW04148	14	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW04149	15	Classroom		Faucet	1.1	Pass	Testing Complete
LW04150	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04151	17	Classroom		Faucet	1.8	Pass	Testing Complete
LW04152	17	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW04153	18	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04154	19	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04155	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04156	20	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04157	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04158	21	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04159	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04160	22	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04161	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04162	24	Classroom		Faucet	<1.0	Pass	Testing Complete
LW04163	24	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW04164		Hallway	Across From 24	Cooler	<1.0	Pass	Testing Complete
M12109	23	Classroom		Faucet	1.1	Pass	Testing Complete
M12110	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12129	18	Classroom		Bubbler - Indoor	1.8	Pass	Testing Complete
M12133	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12135	14	Classroom		Bubbler - Indoor	2.2	Pass	Testing Complete
M12136	16	Classroom		Faucet	1.7	Pass	Testing Complete
M12153	12	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
M12155	10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12156	12	Classroom		Faucet	<1.0	Pass	Testing Complete
M12158	10	Classroom		Faucet	1.1	Pass	Testing Complete
M12177		Music		Bubbler - Indoor	1.2	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M12179		Dual Purpose Room		Bubbler - Indoor	2.3	Pass	Testing Complete
M12180		Music		Faucet	<1.0	Pass	Testing Complete
M12182		Dual Purpose Room		Faucet	1.2	Pass	Testing Complete
M12185	4	Classroom		Faucet	<1.0	Pass	Testing Complete
M12186	4	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M12187	3	Classroom		Faucet	1.5	Pass	Testing Complete
M12188	3	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M12193	1	Classroom		Faucet	<1.0	Pass	Testing Complete
M12194	1	Classroom		Bubbler - Indoor	1.9	Pass	Testing Complete
M12203	9	Classroom		Faucet	<1.0	Pass	Testing Complete
M12204	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12205	8	Classroom		Faucet	1.6	Pass	Testing Complete
M12206	8	Classroom		Bubbler - Indoor	3.2	Pass	Testing Complete
M12207	7	Classroom		Faucet	<1.0	Pass	Testing Complete
M12208	7	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M12209	6	Classroom		Faucet	<1.0	Pass	Testing Complete
M12210	6	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M12211	5	Classroom		Faucet	<1.0	Pass	Testing Complete
M12212	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M12223		Kitchen		Faucet	1.8	Pass	Testing Complete
M12224		Kitchen		Faucet	3.2	Pass	Testing Complete
M12225		Kitchen		Faucet	1.3	Pass	Testing Complete
M12226		Kitchen		Faucet	<1.0	Pass	Testing Complete

\*PPB = parts per billion