



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

June 5, 2018

### Executive Summary:

#### Westland Middle School

5511 Massachusetts Avenue

Bethesda, Maryland 20816

Round of Testing:	Initial
# of Outlets Tested:	30
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	9.2

### Project Status:

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



June 5, 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: Westland Middle School**

5511 Massachusetts Avenue  
Bethesda, Maryland 20816

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 Westland Middle School, located at 5511 Massachusetts Avenue in Bethesda, Maryland 20816.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Westland Middle 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 4/30/2018 and 5/1/2018 to collect samples from 30 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 5/1/2018 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 Westland Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06277	101	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW06278		Kitchen Cafeteria		Faucet	1	Pass	Testing Complete
LW06279		Kitchen Cafeteria		Faucet	1.5	Pass	Testing Complete
LW06280	116	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06281	128	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06282	134	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06283	143	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW06285	220	Hallway	Outside Of	Cooler	<1.0	Pass	Testing Complete
LW06286	218	Home Economics		Faucet	9.2	Pass	Testing Complete
LW06287	218	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06288	226	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06289	230	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06290	206	Hallway	Next To	Cooler	<1.0	Pass	Testing Complete
LW06291	146	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW06292	140	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW06293	211	Classroom		Cooler	<1.0	Pass	Testing Complete
LW06294	211	Classroom		Faucet	<1.0	Pass	Testing Complete
M13398	121	Break Room		Faucet	<1.0	Pass	Testing Complete
M13400	124	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M14332		Kitchen Cafeteria		Faucet	1.1	Pass	Testing Complete
M14333		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M14334		Kitchen Cafeteria		Faucet	1.6	Pass	Testing Complete
M14336		Kitchen Cafeteria		Faucet	3.3	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M14338		Kitchen Cafeteria		Faucet	1.0	Pass	Testing Complete
M14339		Kitchen Cafeteria		Ice Maker	<1.0	Pass	Testing Complete
M14345	135	Health Room		Faucet	<1.0	Pass	Testing Complete
M14757	218	Home Economics		Faucet	<1.0	Pass	Testing Complete
M14761	218	Home Economics		Faucet	<1.0	Pass	Testing Complete
M14762	218	Home Economics		Faucet	<1.0	Pass	Testing Complete
M14764	218	Home Economics		Faucet	<1.0	Pass	Testing Complete

\*PPB = parts per billion