



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

### Executive Summary:

#### Walter Johnson High School

6400 Rock Spring Drive

Bethesda, Maryland 20814

Date of Test Report:	3/22/2018
Round of Testing:	Initial
# of Outlets Tested:	51
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	7.7

### Project Status:

Initial testing complete: All results less than 20 ppb.



3/22/2018

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: Walter Johnson High School**

6400 Rock Spring Drive  
Bethesda, Maryland 20814

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 Walter Johnson High School, located at 6400 Rock Spring Drive in Bethesda, Maryland 20814.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Walter Johnson High 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 2/27/2018 and 2/28/2018 to collect samples from 51 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 2/28/2018 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 Walter Johnson High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05322		Hallway	Close To Rm 129	Cooler	<1.0	Pass	Testing Complete
LW05323		Hallway	Close To Rm 129	Cooler	<1.0	Pass	Testing Complete
LW05324	128	Work Room		Faucet	2.4	Pass	Testing Complete
LW05325	104	Work Room		Faucet	<1.0	Pass	Testing Complete
LW05326	158	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05327	197C	Concession		Icemaker	<1.0	Pass	Testing Complete
LW05369		Kitchen		Faucet	3.4	Pass	Testing Complete
LW05370		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05371		Kitchen		Faucet	2	Pass	Testing Complete
LW05372		Kitchen		Faucet	2.8	Pass	Testing Complete
LW05373		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05374		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW05375	170C	Break Room Cafeteria		Faucet	1.4	Pass	Testing Complete
LW05376		Cafeteria	Next To Rm 170c	Cooler	<1.0	Pass	Testing Complete
LW05377	173	Office Band		Faucet	<1.0	Pass	Testing Complete
LW05378	190B	Concession	Across From Auditorium	Faucet	7.7	Pass	Testing Complete
LW05380	166	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05381	154	Health Room		Faucet	1	Pass	Testing Complete
LW05382	151	Work Room Office		Faucet	1.9	Pass	Testing Complete
LW05383	100	Office Office		Faucet	<1.0	Pass	Testing Complete
LW05384	155C	Work Room Counselor		Faucet	1	Pass	Testing Complete
LW05385		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW05386	142	English Office		Faucet	<1.0	Pass	Testing Complete
LW06462	G85	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06463	G85	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06464	G65	Weight Room	Next To	Cooler	<1.0	Pass	Testing Complete
LW06473	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06474	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW06475	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06476	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06477	G02	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW06478	G02	Home Economics		Faucet	4.7	Pass	Testing Complete
LW06480	G15C	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06481	G15C	Hallway	Across From	Cooler	<1.0	Pass	Testing Complete
LW06482	G44	Work Room		Cooler	<1.0	Pass	Testing Complete
LW06483	G59	Training Room		Faucet	2.4	Pass	Testing Complete
LW06484	244	Work Room		Faucet	<1.0	Pass	Testing Complete
LW06485	212	Hallway	Right Of	Cooler	<1.0	Pass	Testing Complete
M07583	G27	Work Room		Faucet	<1.0	Pass	Testing Complete
M07588	G55	Hallway	Next to G55 Football Office	Cooler	<1.0	Pass	Testing Complete
M07610	G65	Weight Room	Next to G65 Weight Rm	Cooler	<1.0	Pass	Testing Complete
M07612		Hallway	Next to Gym	Cooler	<1.0	Pass	Testing Complete
M07619	197C	Concession		Faucet	2.1	Pass	Testing Complete
M20409		Kitchen Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M20416		Kitchen Kitchen	Outside Wall	Faucet	<1.0	Pass	Testing Complete
M20417		Kitchen Kitchen	Outside Wall	Faucet	<1.0	Pass	Testing Complete
M20421		Kitchen	Serving Area	Faucet	2.3	Pass	Testing Complete
M20424	160B	Work Room Media Center		Faucet	1.4	Pass	Testing Complete
M20761		Hallway	Hall By 235 LTR 1 of 2	Cooler	<1.0	Pass	Testing Complete
M26345		Hallway	Next to Elevator and Rm 261 Storage	Cooler	<1.0	Pass	Testing Complete
M26350	261	Hallway	Between SBR Next to Rm 261 and Elevator	Cooler	<1.0	Pass	Testing Complete

\*PPB = parts per billion