



Montgomery County Public Schools Lead in Drinking Water Testing 2018

May 14, 2018

Executive Summary:

Seneca Valley High School

19401 Crystal Rock Drive
Germantown, Maryland 20874

Round of Testing:	Initial
# of Outlets Tested:	25
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	16.2

Project Status:

Testing Complete: All results less than 20 ppb.



May 14, 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: Seneca Valley High School

19401 Crystal Rock 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 Seneca Valley High School, located at 19401 Crystal Rock Drive in Germantown, Maryland 20874.

SCOPE OF SERVICES

KCI conducted lead in water testing at Seneca Valley 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 4/19/2018 and 4/20/2018 to collect samples from 25 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 4/20/2018 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 Seneca Valley High School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03812		Hallway	Across From Room 100	Cooler	<1.0	Pass	Testing Complete
LW03813		Kitchen		Faucet	16.2	Pass	Testing Complete
LW03814		Kitchen		Faucet	2.5	Pass	Testing Complete
LW03815		Kitchen		Faucet	1.9	Pass	Testing Complete
LW03818		Kitchen		Faucet	4.5	Pass	Testing Complete
LW03819		Cafeteria	Inside Of Cafeteria	Cooler	<1.0	Pass	Testing Complete
LW03820		Hallway	Next To Room 240	Cooler	<1.0	Pass	Testing Complete
LW03821		Hallway	Next To Room 233b	Cooler	<1.0	Pass	Testing Complete
LW03822		Hallway	Across From Room 230	Cooler	<1.0	Pass	Testing Complete
LW03823		Hallway	Next To Room217	Cooler	<1.0	Pass	Testing Complete
LW03825		Hallway	Across From Room 216	Cooler	<1.0	Pass	Testing Complete
LW03826	118	Day Care		Faucet	<1.0	Pass	Testing Complete
LW03827	118	Day Care		Faucet	<1.0	Pass	Testing Complete
LW03828	118	Day Care		Faucet	<1.0	Pass	Testing Complete
LW03829		Hallway	Next To Elevator	Cooler	<1.0	Pass	Testing Complete
LW03830		Hallway	Across From Gym	Cooler	<1.0	Pass	Testing Complete
LW03831		Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW03832		Locker Room - Girls		Cooler	2.4	Pass	Testing Complete
LW03833		Hallway	Across From Back Of Gym	Cooler	<1.0	Pass	Testing Complete
LW03834		Hallway	Next To Music	Cooler	1.5	Pass	Testing Complete
LW03835		Hallway	In Front Of Room 105	Cooler	<1.0	Pass	Testing Complete
M06221		Kitchen	Back Wall 1c	Faucet	1.7	Pass	Testing Complete
M06222		Kitchen	Back Wall 1c	Faucet	1.6	Pass	Testing Complete
M06239	113C	Health		Faucet	1.3	Pass	Testing Complete
M06247		Hallway	1st floor Staff Work Room	Cooler	<1.0	Pass	Testing Complete

*PPB = parts per billion