



Montgomery County Public Schools Lead in Drinking Water Testing 2018

June 11, 2018

Executive Summary:

Concord Center

7210 Hidden Creek Road
Bethesda, Maryland 20817

Round of Testing:	Initial
# of Outlets Tested:	18
# of Outlets ≥ 20 ppb:	1
Low Value (ppb):	<1.0
High Value (ppb):	238
Follow-Up Testing Required (Samples ≥ 20 ppb):	Administration Classroom 10 (238 ppb)

Round of Testing:	Follow-Up - 30 sec draw
# of Outlets Tested:	1

Project Status:

Testing Complete: Remediation Plan

Administration Classroom 10 - Replace fixture (LW05596), in addition to supply line and valve located under sink



June 11, 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: Concord Center

7210 Hidden Creek Road
Bethesda, Maryland 20817

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 and follow-up lead in water testing at Concord Center, located at 7210 Hidden Creek Road in Bethesda, Maryland 20817.

SCOPE OF SERVICES

KCI conducted lead in water testing at Concord Center 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 5/3/2018 and 5/4/2018 to collect samples from 18 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. On 6/5/2018, one 30 second follow-up sample was collected.

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 was one result of the lead in water analysis at or above 20 parts per billion (ppb) and subsequent follow up 30 second results are highlighted in the summary table below:

Barcode ID	Sample Location	Date Collected	Initial Sample Result (ppb)	Date Collected	30 Second Follow Up Sample Result (ppb)
LW05596	Faucet - Administration Classroom 10	5/4/2018	238	6/5/2018	ND

The initial lead in water sample results (5/4/2018) and 30 second follow up result (6/5/2018) 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

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Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Concord Center

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03515		Hallway Hallway	Between Rm 3 & 4	Bubbler - Indoor	1.3	Pass	Testing Complete
LW03517	2	Administration Classroom		Faucet	4.5	Pass	Testing Complete
LW03518	3	Administration Classroom		Faucet	2.2	Pass	Testing Complete
LW03519		Hallway Hallway	Next To Rm 6	Bubbler - Indoor	7.1	Pass	Testing Complete
LW03520		Hallway Hallway	Next To Rm 6	Bubbler - Indoor	3.4	Pass	Testing Complete
LW03521	6	Administration Classroom		Faucet	9.5	Pass	Testing Complete
LW03523	6	Administration Classroom		Bubbler - Indoor	2.9	Pass	Testing Complete
LW03524	7	Administration Classroom		Faucet	8.0	Pass	Testing Complete
LW03525	8	Administration Classroom		Faucet	4.5	Pass	Testing Complete
LW03526	8	Administration Classroom		Bubbler - Indoor	3.5	Pass	Testing Complete
LW03527	9	Administration Classroom		Faucet	1.5	Pass	Testing Complete
LW03536	1	Administration Classroom		Faucet	5.1	Pass	Testing Complete
LW05595		Hallway Hallway	Between Rm 9 & 10	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05596	10	Administration Classroom		Faucet	238	Fail	Follow Up Testing Needed
LW05597	10	Administration Classroom		Bubbler - Indoor	16.7	Pass	Testing Complete
LW05598	11	Administration Classroom		Faucet	2.7	Pass	Testing Complete
LW05599		Administration Hallway		Faucet	11.2	Pass	Testing Complete
M31163		Hallway Hallway	Between Rm 9 & 10	Bubbler - Indoor	<1.0	Pass	Testing Complete

*PPB = parts per billion

Contractor: KCI Technologies, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Result for Concord Center

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
LW05596	10	Administration Classroom	Faucet	N/A	6.2	ND	Remediation required – replace fixture, in addition to supply line and valve located under sink

*PPB = parts per billion

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd and 3rd round testing was performed on these fixture(s) for further diagnostics for remediation. Because the fixture was shut off after the first test, the subsequent test results may not be representative of an in-use fixture because of stagnant water in the supply line and the operation of shut off valves prior to the tests. All fixtures with elevated test results are to be remediated. After remediation, post remediation testing will be conducted before the fixture is returned to service.