



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

April 27, 2018

### Executive Summary:

**Cloverly Elementary School**  
800 Briggs Chaney Road  
Briggs Chaney, Maryland 20905

Round of Testing:	Initial
# of Outlets Tested:	45
# of Outlets $\geq 20$ ppb:	1
Low Value (ppb):	<1.0
High Value (ppb):	40.3
Follow-Up Testing Required (Samples $\geq 20$ ppb):	Classroom 11 (40.3 ppb)

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

### Project Status:

**Testing Complete: Remediation Plan**

Classroom 11 - Replace fixture (LW05664), in addition to supply line and valve located under sink



April 27, 2018

Mr. Brian Mullikin, MS  
Environmental Team Leader  
Montgomery County Public Schools  
Division of Maintenance  
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634189

**Location: Cloverly Elementary School**

800 Briggs Chaney Road  
Briggs Chaney, Maryland 20905

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 Cloverly Elementary School, located at 800 Briggs Chaney Road in Briggs Chaney, Maryland 20905.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Cloverly 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 3/13/2018 and 3/14/2018 to collect samples from 45 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 4/12/2018, 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:

<b>Barcode ID</b>	<b>Sample Location</b>	<b>Date Collected</b>	<b>Initial Sample Result (ppb)</b>	<b>Date Collected</b>	<b>30 Second Follow Up Sample Result (ppb)</b>
LW05664	Faucet - Classroom 11	3/14/2018	40.3	4/12/2018	ND

The initial lead in water sample results (3/14/2018) and 30 second follow up results (4/12/2018) 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.

Initial Sample Results for Cloverly Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03514	47	Break Room		Faucet	<1.0	Pass	Testing Complete
LW05658		Hallway	Outside Of Kitchen	Cooler	<1.0	Pass	Testing Complete
LW05659		Hallway	Outside Of Kitchen	Cooler	<1.0	Pass	Testing Complete
LW05660		Health Room		Faucet	<1.0	Pass	Testing Complete
LW05663	10	Classroom		Faucet	1.2	Pass	Testing Complete
LW05664	11	Classroom		Faucet	40.3	Fail	Follow-Up Testing Needed
LW05665		Hallway	Next To Cr 1	Cooler	<1.0	Pass	Testing Complete
LW05666		Hallway	Next To Cr 1	Cooler	<1.0	Pass	Testing Complete
LW05667	1	Classroom Kindergarten		Faucet	1.7	Pass	Testing Complete
LW05668	2	Classroom Kindergarten		Faucet	5.6	Pass	Testing Complete
LW05669	3	Classroom Kindergarten		Faucet	2.0	Pass	Testing Complete
LW05670	9	Classroom		Faucet	1.4	Pass	Testing Complete
LW05671	4	Classroom		Faucet	1.7	Pass	Testing Complete
LW05672	8	Classroom		Faucet	3.7	Pass	Testing Complete
LW05673	5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05674	7	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05675	6	Classroom		Faucet	1.0	Pass	Testing Complete
LW05676		Classroom	Across From Cr 6	Cooler	<1.0	Pass	Testing Complete
LW05677	123	ESOL		Faucet	3.5	Pass	Testing Complete
LW05678		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW05679		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW05680	15	Classroom		Faucet	19.8	Pass	Testing Complete
LW05681	16	Classroom		Faucet	1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05682	17	Classroom		Faucet	2.6	Pass	Testing Complete
LW05683	20	Classroom		Faucet	2.3	Pass	Testing Complete
LW05684	26	Classroom		Faucet	3.5	Pass	Testing Complete
M10413		Office Admin	Asst. Princ	Faucet	1.3	Pass	Testing Complete
M10414		Office Admin	Asst. Principal	Bubbler - Indoor	6.8	Pass	Testing Complete
M10415		Music Music		Faucet	4.3	Pass	Testing Complete
M10421	12	Classroom		Faucet	2.2	Pass	Testing Complete
M10459		Hallway	Across From Cr 6	Cooler	<1.0	Pass	Testing Complete
M10468	25	Classroom		Faucet	2.6	Pass	Testing Complete
M10470	24	Classroom		Faucet	1.7	Pass	Testing Complete
M10472	23	Classroom		Faucet	4.4	Pass	Testing Complete
M10475	27	Office Media Center		Faucet	4.2	Pass	Testing Complete
M10477	22	Classroom		Faucet	1.0	Pass	Testing Complete
M10479	21	Classroom		Faucet	5.7	Pass	Testing Complete
M10493	18	Classroom		Faucet	1.4	Pass	Testing Complete
M10495	19	Classroom		Faucet	1.2	Pass	Testing Complete
M10501		Kitchen		Faucet	4.7	Pass	Testing Complete
M10503		Kitchen		Faucet	1.2	Pass	Testing Complete
M10504		Kitchen		Faucet	7.2	Pass	Testing Complete
M10505		Kitchen		Faucet	1.5	Pass	Testing Complete

\*PPB = parts per billion

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

Follow Up Sample Result for Cloverly Elementary School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
LW05664	11	Classroom	Faucet	2.20	1.50	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.