

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Argyle Middle School  
2400 Bel Pre Road  
Silver Spring, MD 20906**

**Report Date: April 8th, 2020**

## LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	2/6/2020
# of Outlets Tested	20
# of Outlets $\geq$ 5 ppb	1

## NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

## HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

## **SOURCES OF HUMAN EXPOSURE TO LEAD**

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, cosmetics, exposure in the work place and from certain hobbies. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

### **TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:**

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

*\*Please note that boiling the water will not reduce lead levels.*

### **ADDITIONAL INFORMATION**

1. For additional information, please contact Brian Mullikin, Environmental Team Leader, at 240.740.2324 or [brian\\_a\\_mullikin@mcpsmd.org](mailto:brian_a_mullikin@mcpsmd.org).
2. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at [www.epa.gov/lead](http://www.epa.gov/lead).
3. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.

*Please refer to the attachment(s) for additional water sampling information.*

**Attachment(s)** A – Lead in Water Sample Results Table

**ATTACHMENT A**

**Lead in Water Sample Results Table**

## Sampling Results for Argyle MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03334	In hallway by kitchen ie. by locker 1013	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03335	In hallway between locker 318/319	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03336	In staff development DR	Teachers Lounge Sink	1.4	Pass	N/A	Testing Complete
LW03338	In Main Office	Teachers Lounge Sink	1.9	Pass	N/A	Testing Complete
LW03340	In hallway close to health room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M10623	In hallway across from CR 230	Drinking Fountain	<1	Pass	N/A	Testing Complete
M10626	In boys locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M10630	In girls locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M10649	In kitchen by kitchen	Kitchen Sink	5.9	Fail	<1	Remediation Action Plan
M10650	In kitchen by kitchen	Kitchen Sink	2.0	Pass	N/A	Testing Complete
M10651	In kitchen by kitchen	Kitchen Sink	1.2	Pass	N/A	Testing Complete
M10653	In kitchen by kitchen	Kitchen Sink	1.0	Pass	N/A	Testing Complete
M10654	In kitchen	Kitchen Sink	1.9	Pass	N/A	Testing Complete
M10664	Adjacent to room 125	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08088	Entrance to Boys Locker room near Aux Gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08058	Entrance to Boys Locker room near Aux Gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08089	Across from room 230	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08091	Between Lockers 318/319	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW08092	In Kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW08090	Adjacent to room 211	Drinking Fountain	<1	Pass	N/A	Testing Complete



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

### Executive Summary:

#### Argyle Middle School

2400 Bel Pre Road

Silver Spring, Maryland 20906

Date of Test Report:	3/13/2018
Round of Testing:	Initial
# of Outlets Tested:	18
# of Outlets $\geq 20$ ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	15.5

### Project Status:

Initial testing complete; All results less than 20 ppb.



3/13/2018

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: Argyle Middle School**

2400 Bel Pre Road  
Silver Spring, Maryland 20906

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 Argyle Middle School, located at 2400 Bel Pre Road in Silver Spring, Maryland 20906.

**SCOPE OF SERVICES**

KCI conducted lead in water testing at Argyle 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 2/6/2018 and 2/7/2018 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.

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 2/7/2018 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 Argyle MS

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW03333	124	Classroom		Faucet	6.5	Pass	Testing Complete
LW03334		Hallway Kitchen	By Locker 1013	Cooler	<1.0	Pass	Testing Complete
LW03335		Hallway	Between Locker 318/319	Cooler	<1.0	Pass	Testing Complete
LW03336	DR	Staff Development		Faucet	2.5	Pass	Testing Complete
LW03337	230C	Break Room Science	Across From 232	Faucet	1.5	Pass	Testing Complete
LW03338	GOF	Office		Faucet	2.3	Pass	Testing Complete
LW03339	HR	Health Room		Faucet	8.1	Pass	Testing Complete
LW03340		Hallway	Close To Health Room	Cooler	<1.0	Pass	Testing Complete
M10623		Hallway	Across From Cr 230	Cooler	<1.0	Pass	Testing Complete
M10626		Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M10630		Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M10649		Kitchen		Faucet	<1.0	Pass	Testing Complete
M10650		Kitchen		Faucet	1.6	Pass	Testing Complete
M10651		Kitchen		Faucet	2.8	Pass	Testing Complete
M10652		Kitchen		Faucet	15.5	Pass	Testing Complete
M10653		Kitchen		Faucet	1.5	Pass	Testing Complete
M10654		Kitchen		Faucet	1.6	Pass	Testing Complete
M10664		Hallway	Across from CR 127	Cooler	<1.0	Pass	Testing Complete

\*PPB = parts per billion