

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Forest Oak Middle School  
651 Saybrooke Oaks Blvd.  
Gaithersburg, MD 20877**

**Report Date: April 20th, 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	1/31/2020
# of Outlets Tested	48
# of Outlets $\geq$ 5 ppb	2

## 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**

## Sample Results for Forest Oak MS

Fixture Code	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up results (ppb)	Status
LW00066	In cafeteria B101 dining hall	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00067	In kitchen B134 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00068	In kitchen B134 by cafeteria	Ice Machine	<1	Pass	N/A	Testing Complete
LW00069	In kitchen B134 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00070	In kitchen B134 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00071	In kitchen B134 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00072	In kitchen B134 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW00073	In kitchen B134 by cafeteria	Kitchen Sink	1.0	Pass	N/A	Testing Complete
LW00074	In B125 by cafeteria	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00075	In security C157	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00076	In hallway between C154 & c157	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00077	In hallway between C154 & C157	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00078	In hallway across from A108	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00079	In locker room - boys A105	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00080	In locker room - boys A105	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00081	In locker room - girls A124 across from A126	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00082	In hallway across from E125	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00083	In team room E119	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00084	In team room E118	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00085	In work room C146	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00086	In hallway across from E106	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00087	In lab D110 inside of D108	Drinking Fountain	2.0	Pass	N/A	Testing Complete
LW00088	In other (see location notes) D113 applied technology	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00089	In home economics D114	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW00090	In home economics D114	Home Economics Room Sink	1.0	Pass	N/A	Testing Complete
LW00091	In home economics D114	Home Economics Room Sink	<1	Pass	N/A	Testing Complete

LW00093	In home economics D114	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW00094	In home economics D114	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW00095	In home economics D114	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW00096	In home economics D114	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW00097	In break room C121	Teachers Lounge Sink	5.2	Fail	<1	Remediation Action Plan
LW00098	In work room C133	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00099	In administration by admin ie. across from C107	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00100	In administration across from C107	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00101	In health room C137 by administration	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW00102	In hallway across from E227	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00103	In team room E224	Classroom Sink	2.2	Pass	N/A	Testing Complete
LW00104	In team room E223	Classroom Sink	2.0	Pass	N/A	Testing Complete
LW00105	In hallway across from E208	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00106	In team room D219	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00107	In team room D218	Classroom Sink	5.8	Fail	<1	Remediation Action Plan
LW00108	In hallway across from D229	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00109	In hallway across from 207	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW00599	In classroom D119 special education	Classroom Sink	<1	Pass	N/A	Testing Complete
LW00600	In classroom D119 special education	Classroom Sink	1.7	Pass	N/A	Testing Complete
M16210	In kitchen B134 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
M16211	In kitchen B134 by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
M45802	In home economics D114	Home Economics Room Sink	<1	Pass	N/A	Testing Complete



**MONTGOMERY COUNTY PUBLIC SCHOOLS  
LEAD IN DRINKING WATER TESTING 2018**

**Executive Summary:**  
**Forest Oak Middle School**  
651 Saybrooke Oaks Boulevard  
Gaithersburg, MD 20877

Date of Test Report:	03/12/2018
Round of Testing:	Initial
# of Outlets Tested:	48
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	9.1

**Project Status**

**Initial testing complete:** All results less than 20 ppb.



March 12, 2018

Mr. Brian Mullikin  
Environmental Team Leader  
Montgomery County Public Schools  
8301 Turkey Thicket Drive  
Building A, First Floor  
Gaithersburg, Maryland 20879

Re: Lead in Water Testing Service

Location: Forest Oak Middle School  
651 Saybrooke Oaks Boulevard  
Gaithersburg, MD 20877

Dear Mr. Mullikin:

Professional Services Industries (PSI), Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of initial lead in water testing at Forest Oak Middle School, located at 651 Saybrooke Oaks Boulevard, Gaithersburg, MD 20877.

**Scope of Services:**

PSI conducted lead in water testing at Forest Oak 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.

PSI visited the site on 1/29/18, 01/30/18, and 01/31/18 to collect samples from 48 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 were no results of the lead in water analysis at or above 20 parts per billion (ppb).

The lead in water sample results < 20 ppb for sample collection date 01/30/18 and 01/31/18 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,

**PROFESSIONAL SERVICE INDUSTRIES, INC.**

A handwritten signature in black ink that reads "Nand Kaushik".

Nand Kaushik, P.E.  
Department Manager, Environmental Services  
[Nand.Kaushik@psiusa.com](mailto:Nand.Kaushik@psiusa.com)

Attachments:           A – Lead in Water Test Summary Table



# ATTACHMENT A

## Lead in Water Test Summary Table

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

### Sample Results for Forest Oak Middle School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00066	B101	Cafeteria	Dining Hall	Cooler	<1.0	Pass	Testing Complete
LW00067	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00068	B134	Kitchen Cafeteria		Icemaker	1.6	Pass	Testing Complete
LW00069	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00070	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00071	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW00072	B134	Kitchen Cafeteria		Faucet	1.8	Pass	Testing Complete
LW00073	B134	Kitchen Cafeteria		Faucet	2.8	Pass	Testing Complete
LW00074	B125	Other (See Location Notes) Cafeteria	Next To B134	Faucet	<1.0	Pass	Testing Complete
LW00075	C157	Security		Faucet	2.3	Pass	Testing Complete
LW00076		Hallway	Between C154 & C157	Cooler	<1.0	Pass	Testing Complete
LW00077		Hallway	Between C154 & C157	Cooler	<1.0	Pass	Testing Complete
LW00078		Hallway	Across From A108	Cooler	<1.0	Pass	Testing Complete
LW00079	A105	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW00080	A105	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW00081	A124	Locker Room - Girls	Across From A126	Cooler	<1.0	Pass	Testing Complete
LW00082		Hallway	Across From E125	Cooler	<1.0	Pass	Testing Complete
LW00083	E119	Team Room		Faucet	<1.0	Pass	Testing Complete
LW00084	E118	Team Room		Faucet	<1.0	Pass	Testing Complete
LW00085	C146	Work Room		Faucet	<1.0	Pass	Testing Complete
LW00086		Hallway	Across From E106	Cooler	<1.0	Pass	Testing Complete
LW00087	D110	Lab	Inside Of D108	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00088	D113	Other (See Location Notes)	Applied Technology	Cooler	<1.0	Pass	Testing Complete
LW00089	D114	Home Economics		Faucet	1.2	Pass	Testing Complete
LW00090	D114	Home Economics		Faucet	1.8	Pass	Testing Complete
LW00091	D114	Home Economics		Faucet	2.6	Pass	Testing Complete
LW00092	D114	Home Economics		Faucet	9.1	Pass	Testing Complete
LW00093	D114	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW00094	D114	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW00095	D114	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW00096	D114	Home Economics		Faucet	4.3	Pass	Testing Complete
LW00097	C121	Break Room		Faucet	<1.0	Pass	Testing Complete
LW00098	C133	Work Room		Faucet	<1.0	Pass	Testing Complete
LW00099		Administration	Across From C107	Cooler	<1.0	Pass	Testing Complete
LW00100		Administration	Across From C107	Cooler	<1.0	Pass	Testing Complete
LW00101	C137	Health Room Administration		Faucet	<1.0	Pass	Testing Complete
LW00102		Hallway	Across From E227	Cooler	<1.0	Pass	Testing Complete
LW00103	E224	Team Room		Faucet	1.4	Pass	Testing Complete
LW00104	E223	Team Room		Faucet	1	Pass	Testing Complete
LW00105		Hallway	Across From E208	Cooler	<1.0	Pass	Testing Complete
LW00106	D219	Team Room		Faucet	<1.0	Pass	Testing Complete
LW00107	D218	Team Room		Faucet	<1.0	Pass	Testing Complete
LW00108		Hallway	Across From D229	Cooler	<1.0	Pass	Testing Complete
LW00109		Hallway	Across From 207	Cooler	<1.0	Pass	Testing Complete
LW00599	D119	Classroom	Special Education	Faucet	<1.0	Pass	Testing Complete
M16210	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M16211	B134	Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M45802	D114	Home Economics		Faucet	<1.0	Pass	Testing Complete

\*ppb = parts per billion