

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Takoma Park Middle School  
7611 Piney Branch Road  
Silver Spring, MD 20910**

**Report Date: March 16th, 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	2/20/2020
# of Outlets Tested	54
# of Outlets $\geq$ 5 ppb	0

## 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 Takoma Park MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW02289	In hallway In front of 112	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02290	In hallway In front of 112	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02291	In health room 413	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW02292	In hallway In front of 145	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02293	In hallway In front of 145	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02294	In home economics 140	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW02295	In home economics 140	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW02296	In home economics 140	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW02297	In home economics 140	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW02298	In home economics 140	Home Economics Room Sink	1.9	Pass	N/A	Testing Complete
LW02299	In home economics 140	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW02300	In hallway next to restrooms 2b	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02301	In hallway next to restrooms 2b	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02302	In classroom 145C	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02303	In locker room - boys	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02304	In hallway In front of boys locker	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02305	In locker room - girls	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02306	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02307	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02308	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02309	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02310	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02311	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02312	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02313	In music storage 182D by music	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02314	In music storage 182D by music	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

LW02315	In hallway In front of 212	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02316	In hallway In front of 212	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02317	In hallway next to lmc 230	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02318	In hallway In front of 312	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02319	In hallway In front of 312	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02320	In team room	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M27168	In Magnet Suite 105B	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44106	In work room 421 by administration	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44122	In classroom 145C	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44124	In security area	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44132	In computer lab 149	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44135	In team 121	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44136	In classroom 117	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44137	In classroom 122	Classroom Combination Sink	3.0	Pass	N/A	Testing Complete
M44139	In team 101	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44140	In classroom 120	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44141	In classroom 114	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44151	In work room 110A next to 110	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44177	In kitchen by kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
M44210	In break room 229	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M44220	In media center 230C by media center	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44222	In team 221	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44223	In team 201	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44226	In classroom 214	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44237	In work room 210A	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44257	In team 321	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M44268	In work room 310A	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
M44286	In classroom 314	Classroom Combination Sink	3.6	Pass	N/A	Testing Complete



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

**Executive Summary:  
Takoma Park Middle School**

7611 Piney Branch Rd  
Silver Spring, MD 20910

Date of Test Report:	03/20/2018
Round of Testing:	Initial
# of Outlets Tested:	55
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	11.6

**Project Status**

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



March 20, 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: Takoma Park Middle School  
7611 Piney Branch Rd  
Silver Spring, MD 20910

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 Takoma Park Middle School, located at 7611 Piney Branch Rd, Silver Spring, MD 20910.

**Scope of Services:**

PSI conducted lead in water testing at Takoma Park 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 02/12/18 and 02/13/18 to collect samples from 55 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 02/13/18 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.**

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 Takoma Park Middle School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW02289		Hallway	In Front Of 112	Cooler	<1.0	Pass	Testing Complete
LW02290		Hallway	In Front Of 112	Cooler	<1.0	Pass	Testing Complete
LW02291	413	Health Room		Faucet	<1.0	Pass	Testing Complete
LW02292		Hallway	In Front Of 145	Cooler	<1.0	Pass	Testing Complete
LW02293		Hallway	In Front Of 145	Cooler	1.5	Pass	Testing Complete
LW02294	140	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW02295	140	Home Economics		Faucet	1.5	Pass	Testing Complete
LW02296	140	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW02297	140	Home Economics		Faucet	1.6	Pass	Testing Complete
LW02298	140	Home Economics		Faucet	1	Pass	Testing Complete
LW02299	140	Home Economics		Faucet	<1.0	Pass	Testing Complete
LW02302	145C	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02303		Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW02304		Hallway	In Front Of Boys Locker Room	Cooler	<1.0	Pass	Testing Complete
LW02305		Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW02306		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02307		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02308		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02309		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02310		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02311		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02312		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02314	182D	Music Storage		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW02315		Hallway	In Front Of 212	Cooler	<1.0	Pass	Testing Complete
LW02316		Hallway	In Front Of 212	Cooler	<1.0	Pass	Testing Complete
LW02317		Hallway	Next To IMC 230	Cooler	<1.0	Pass	Testing Complete
LW02318		Hallway	In Front Of 312	Cooler	<1.0	Pass	Testing Complete
LW02319		Hallway	In Front Of 312	Cooler	<1.0	Pass	Testing Complete
LW02320		Team Room		Faucet	1.7	Pass	Testing Complete
M27168	105B	Magnet Suite		Faucet	<1.0	Pass	Testing Complete
M44106	421	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
M44122	145C	Classroom		Faucet	1.5	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M44124		Security		Faucet	2	Pass	Testing Complete
M44132	149	Computer Lab		Faucet	2.1	Pass	Testing Complete
M44135	121	Team Rm		Faucet	3	Pass	Testing Complete
M44136	117	Classroom		Faucet	3.3	Pass	Testing Complete
M44137	122	Classroom		Faucet	4	Pass	Testing Complete
M44139	101	Team Rm		Faucet	1	Pass	Testing Complete
M44140	120	Classroom		Faucet	1.1	Pass	Testing Complete
M44141	114	Classroom		Faucet	1.4	Pass	Testing Complete
M44151	110A	Work Room	Next To 110	Faucet	1.2	Pass	Testing Complete
M44177		Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M44181	182E	Music Storage		Faucet	5.3	Pass	Testing Complete
M44210	229	Break Room		Faucet	<1.0	Pass	Testing Complete
M44220	230C	Media Center Media Center		Faucet	<1.0	Pass	Testing Complete
M44222	221	Team Rm		Faucet	1	Pass	Testing Complete
M44223	201	Team Rm		Faucet	1.4	Pass	Testing Complete
M44225	222	Special Ed		Faucet	11.6	Pass	Testing Complete
M44226	214	Classroom		Faucet	<1.0	Pass	Testing Complete
M44236	212A	Chemical Stock Room		Faucet	1.5	Pass	Testing Complete
M44237	210A	Work Room		Faucet	<1.0	Pass	Testing Complete
M44257	321	Team Rm		Faucet	1.2	Pass	Testing Complete
M44267	312A	Chemical Stock Room		Faucet	4.3	Pass	Testing Complete
M44268	310A	Work Room		Faucet	1.5	Pass	Testing Complete
M44286	314	Classroom		Faucet	1.8	Pass	Testing Complete

\*ppb = parts per billion