



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

### **Executive Summary: Gaithersburg High School**

101 Education Boulevard  
Gaithersburg, MD 20877

Date of Test Report:	03/12/2018
Round of Testing:	Initial
# of Outlets Tested:	95
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	5

### **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: Gaithersburg High School  
101 Education 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 Gaithersburg High School, located at 101 Education Boulevard, Gaithersburg, MD 20877.

**Scope of Services:**

PSI conducted lead in water testing at Gaithersburg High 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 02/05/18, 02/06/18, and 02/07/18 to collect samples from 95 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 02/06/18 and 02/07/18 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  
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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 Gaithersburg High School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00286		Hallway	Across From 2085a	Cooler	<1.0	Pass	Testing Complete
LW00287		Hallway	Next To 2029	Cooler	<1.0	Pass	Testing Complete
LW00288	1019	Concession	Across From Main Gym	Icemaker	<1.0	Pass	Testing Complete
LW00289	1019	Concession	Across From Main Gym	Faucet	<1.0	Pass	Testing Complete
LW00374	239	Home Economics	Culinary	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00375	239	Home Economics	Culinary	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00376	1019	Concession		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00377	1017	Health Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00378	0008	Concession		Faucet	3.8	Pass	Testing Complete
LW00379	0008	Concession		Faucet	<1.0	Pass	Testing Complete
M31695		Kitchen		Faucet	<1.0	Pass	Testing Complete
M31696		Kitchen		Faucet	<1.0	Pass	Testing Complete
M31698		Kitchen		Faucet	<1.0	Pass	Testing Complete
M31699		Kitchen		Faucet	1	Pass	Testing Complete
M31700		Kitchen		Faucet	<1.0	Pass	Testing Complete
M31701		Kitchen		Faucet	<1.0	Pass	Testing Complete
M31702		Kitchen		Faucet	<1.0	Pass	Testing Complete
M31703		Kitchen		Faucet	<1.0	Pass	Testing Complete
M31704		Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M31716	1144	Break Room		Faucet	<1.0	Pass	Testing Complete
M31717		Hallway	Across from Lounge 1144	Cooler	<1.0	Pass	Testing Complete
M31718		Hallway	Across from Lounge 1144	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M31729	1087	Material Prep		Faucet	<1.0	Pass	Testing Complete
M31730	1087	Material Prep		Faucet	<1.0	Pass	Testing Complete
M31731	1087	Material Prep		Faucet	1.5	Pass	Testing Complete
M31736		Auto Shop	Next to Auto Shop Rm 1090	Cooler	<1.0	Pass	Testing Complete
M31737		Hallway	Next to Auto Shop Rm 1090	Cooler	<1.0	Pass	Testing Complete
M31740	1082A	Office Band Room	inside Band	Faucet	1.7	Pass	Testing Complete
M31747		Hallway	Near CR 1075 Dark Room	Cooler	<1.0	Pass	Testing Complete
M31748	1071	Office	Art Office	Faucet	1.1	Pass	Testing Complete
M31756		Hallway	Across from Performing Arts Center Room 314	Cooler	<1.0	Pass	Testing Complete
M31757		Hallway	Across from Performing Arts Center Room 314	Cooler	<1.0	Pass	Testing Complete
M31764	1055	Concession	Across from Performance A	Faucet	<1.0	Pass	Testing Complete
M31775	1034	Training Room		Faucet	<1.0	Pass	Testing Complete
M31776	1034	Training Room		Ice Maker	<1.0	Pass	Testing Complete
M31777	1045	Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M31778	1045	Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M31785	1049	Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M31786	1049	Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M31800		Hallway	Outside of Gym By Athletic Admissions	Cooler	<1.0	Pass	Testing Complete
M31801		Hallway	Outside of Gym By Athletic Admissions	Cooler	<1.0	Pass	Testing Complete
M32785	1017	Health Room Health		Faucet	<1.0	Pass	Testing Complete
M32786	1017B	Office Health	Inside Health	Faucet	<1.0	Pass	Testing Complete
M32788	1017	Health Room Health	Inside Rm 1017 Health	Cooler	<1.0	Pass	Testing Complete
M32792		Hallway	Across from Rm 1000 Admin	Cooler	<1.0	Pass	Testing Complete
M32793		Hallway	Across from Rm 1000 Admin	Cooler	<1.0	Pass	Testing Complete
M32795	1000	Administration Admin	Inside Room 1000 Admin	Cooler	<1.0	Pass	Testing Complete
M32796	1000	Administration Admin	Inside Room 1000 Admin	Cooler	<1.0	Pass	Testing Complete
M32799	1000C	Work Room Admin	Inside Admin	Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M32801	1001L	Work Room Counselor	Inside 1001 Counselor Center	Faucet	<1.0	Pass	Testing Complete
M32804	1160	Child Development		Cooler	<1.0	Pass	Testing Complete
M32805	1160	Child Development		Faucet	<1.0	Pass	Testing Complete
M32808		Cafeteria	Inside Cafeteria	Cooler	<1.0	Pass	Testing Complete
M32809		Cafeteria	Inside Cafeteria	Cooler	<1.0	Pass	Testing Complete
M32810		Hallway	Next to CR 1118 Computer	Cooler	<1.0	Pass	Testing Complete
M32811		Hallway	Next to CR 1118 Computer	Cooler	<1.0	Pass	Testing Complete
M32812	1117	Special Ed		Faucet	<1.0	Pass	Testing Complete
M32814	1113B	Kitchen Special Ed	Inside CR 1113	Faucet	<1.0	Pass	Testing Complete
M32816	1111	Classroom		Faucet	<1.0	Pass	Testing Complete
M32834	2031	Classroom		Faucet	1.1	Pass	Testing Complete
M32835	2039	Home Economics Other (See Notes)	Culinary	Faucet	<1.0	Pass	Testing Complete
M32836	2039	Classroom Other (See Notes)	Culinary Lab	Faucet	<1.0	Pass	Testing Complete
M32837	2039	Home Economics	Culinary Lab	Faucet	<1.0	Pass	Testing Complete
M32838	2039A	Storage Other (See Notes)	Inside Room 2039 Culinary Lab	Faucet	3.7	Pass	Testing Complete
M32839	2039A	Storage Other (See Notes)	Inside Rm 2039 A	Ice Maker	<1.0	Pass	Testing Complete
M32854		Hallway	Next to CR 2084	Cooler	<1.0	Pass	Testing Complete
M32856	2095	Social Studies Office		Faucet	<1.0	Pass	Testing Complete
M32857	2094	Break Room		Faucet	<1.0	Pass	Testing Complete
M32858	2096	English Office		Faucet	<1.0	Pass	Testing Complete
M32859	2000C	Work Room Media Center	Inside IMC	Faucet	<1.0	Pass	Testing Complete
M32860	2007	College Institute Lounge		Faucet	<1.0	Pass	Testing Complete
M32862		Hallway	Across from Rm 2004 TV Studio	Cooler	<1.0	Pass	Testing Complete
M32865	2010A	Work Room	inside CR 2010	Faucet	<1.0	Pass	Testing Complete
M32873	2057A	Kitchen Special Ed	inside CR 2057	Faucet	<1.0	Pass	Testing Complete
M32874		Hallway	Near CR 2054 & CR 2059	Cooler	<1.0	Pass	Testing Complete
M32875		Hallway	Near CR 2054 & CR 2059	Cooler	<1.0	Pass	Testing Complete
M32897		Hallway	Next to CR 3068	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M32898		Hallway	Next to CR 3068	Cooler	<1.0	Pass	Testing Complete
M32899	3079	Break Room		Faucet	<1.0	Pass	Testing Complete
M32900	3083	Office Math		Faucet	<1.0	Pass	Testing Complete
M32901	3082	Science		Faucet	<1.0	Pass	Testing Complete
M32902	3000	Office ESOL		Faucet	<1.0	Pass	Testing Complete
M32903	3003	World Languages Office		Faucet	<1.0	Pass	Testing Complete
M32904		Hallway	Across from CR 3012	Cooler	<1.0	Pass	Testing Complete
M32905		Hallway	Across from CR 3012	Cooler	<1.0	Pass	Testing Complete
M32914		Hallway	Next to CR 3058	Cooler	<1.0	Pass	Testing Complete
M32915		Hallway	Next to CR 3058	Cooler	<1.0	Pass	Testing Complete
M32916		Hallway	Next to CR 3020	Cooler	<1.0	Pass	Testing Complete
M32917		Hallway	Next to CR 3020	Cooler	<1.0	Pass	Testing Complete
M32925	1018	Conference	Between Boys Gym Office and Girls	Faucet	<1.0	Pass	Testing Complete
M32927	1015Q	Wellness Center Wellness Center	Inside Wellness Center 1015	Faucet	1.4	Pass	Testing Complete
M32928	1015N	Wellness Center Wellness Center	Inside Wellness Center 1015	Faucet	5	Pass	Testing Complete
M32929	1015P	Wellness Center Wellness Center	Inside Wellness Center 1015	Faucet	3	Pass	Testing Complete
M32943	1015R	Wellness Center Wellness Center	Inside Wellness Center 1015	Faucet	<1.0	Pass	Testing Complete
M32944		Hallway	Outside of Band 1082 of Choral Hallway	Cooler	<1.0	Pass	Testing Complete

\*ppb = parts per billion