



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

**Executive Summary:**  
**Brown Station Elementary School**  
851 Quince Orchard Boulevard,  
Gaithersburg, MD 20878

Date of Test Report:	5/11/2018
Round of Testing:	Initial
# of Outlets Tested:	134
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	4.6

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



May 11, 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: Brown Station Elementary School  
851 Quince Orchard Boulevard,  
Gaithersburg, MD 20878

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 Brown Station Elementary School, located at 851 Quince Orchard Boulevard, Gaithersburg, MD 20878.

**Scope of Services:**

PSI conducted lead in water testing at Brown Station 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.

PSI visited the site on 4/5/18 and 4/6/18 to collect samples from 134 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 4/6/18 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 Brown Station Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01847	223	Support Room		Faucet	<1.0	Pass	Testing Complete
LW01848	223	Support Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01849	221	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01850	221	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01851	209	Support Room		Faucet	4.6	Pass	Testing Complete
LW01852	209	Support Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01853	207	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01854	209	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01855	212	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01856	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01857	216	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01858	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01859	222	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01860	222	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01861	228	Dual Purpose Room		Faucet	3.1	Pass	Testing Complete
LW01862	228	Dual Purpose Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01863	236	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01864	236	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01865	002	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01866	002	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01867	008	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01868	008	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01869	020	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01870	020	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01873	026	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01874	026	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01875	032	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01876	032	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01877	038	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01878	038	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06999	122	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07000	122	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07001	126	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07002	126	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07003	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07004	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07005	134	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07006	134	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07007	149	All Purpose Room		Faucet	<1.0	Pass	Testing Complete
LW07008	149	All Purpose Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07009	144	Art		Faucet	<1.0	Pass	Testing Complete
LW07010	144	Art		Faucet	<1.0	Pass	Testing Complete
LW07011	144	Art		Faucet	<1.0	Pass	Testing Complete
LW07012	150	Music		Faucet	<1.0	Pass	Testing Complete
LW07013	150	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07014	135	Office		Faucet	1.4	Pass	Testing Complete
LW07015	135	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07016	137	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07017	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07018	137A	Office		Faucet	<1.0	Pass	Testing Complete
LW07019	137A	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07020	235	Support Room		Faucet	<1.0	Pass	Testing Complete
LW07021	233	Support Room		Faucet	1.4	Pass	Testing Complete
LW07022	233	Support Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07023	227	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07024	227	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08502	100C	Work Room Administration		Faucet	<1.0	Pass	Testing Complete
LW08503	102	Health Room		Faucet	<1.0	Pass	Testing Complete
LW08504	102C	Health Room		Faucet	1.9	Pass	Testing Complete
LW08505	104	Media Center		Faucet	<1.0	Pass	Testing Complete
LW08506	101	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW08507	101	Preschool		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08508	105	Kindergarten		Faucet	<1.0	Pass	Testing Complete
LW08509	105	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08510	114	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08511	114	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08512	107	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08513	107	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08514	116	Office		Faucet	<1.0	Pass	Testing Complete
LW08515	115	Work Room		Faucet	<1.0	Pass	Testing Complete
LW08516	113	Office		Faucet	4.4	Pass	Testing Complete
LW08517	113	Office		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08518	120	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08519	120	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08520	125	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08521	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08522	129	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08523	129	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08524	132	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08525	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08526	138	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08527	138	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08528		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
LW08529		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
LW08530		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
LW08531		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW08532		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW08533		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW08534		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW08535	140	Break Room		Faucet	<1.0	Pass	Testing Complete
LW08536	144	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08537	144	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08538	152	Music		Faucet	1.0	Pass	Testing Complete
LW08539	152	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08540		Hallway	In Front Of 137	Cooler	<1.0	Pass	Testing Complete
LW08541		Hallway	In Front Of 137	Cooler	<1.0	Pass	Testing Complete
LW08542		Hallway	In Front Of 247	Cooler	<1.0	Pass	Testing Complete
LW08543		Hallway	In Front Of 247	Cooler	<1.0	Pass	Testing Complete
LW08544		Support Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08545	231	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08546	231	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08547	215	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08548	215	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08549	203	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08550	203	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08551	201	Resource Center		Faucet	4.3	Pass	Testing Complete
LW08552	201	Resource Center		Bubbler - Indoor	1.2	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW08553	208	Support Room		Faucet	<1.0	Pass	Testing Complete
LW08554	208	Support Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08555	226	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08556	226	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08557	240	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08558	240	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08559		Hallway	Next To 011	Cooler	<1.0	Pass	Testing Complete
LW08560		Hallway	Next To 011	Cooler	<1.0	Pass	Testing Complete
LW08561		Hallway	Next To 011	Cooler	<1.0	Pass	Testing Complete
LW08562	001	Supply Room		Faucet	1.5	Pass	Testing Complete
LW08563	001	Support Room		Bubbler - Indoor	1.2	Pass	Testing Complete
LW08564	006	Classroom		Faucet	1.4	Pass	Testing Complete
LW08565	006	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08566	012	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08567	012	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08568	018	Classroom		Faucet	1.8	Pass	Testing Complete
LW08569	018	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08570	014	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08571	014	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08572	024	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08573	024	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08580	030	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08581	030	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08582	036	Classroom		Faucet	<1.0	Pass	Testing Complete
LW08583	036	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW08584	042	Classroom		Faucet	4.3	Pass	Testing Complete
LW08585	042	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

\*ppb = parts per billion