



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

**Executive Summary:  
Flower Valley Elementary School**

4615 Sunflower Dr.  
Rockville, MD 20853

Date of Test Report:	06/05/2018
Round of Testing:	Initial
# of Outlets Tested:	67
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	10.4

**Project Status**

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



June 5, 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: Flower Valley Elementary School  
4615 Sunflower Dr.  
Rockville, MD 20853

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 Flower Valley Elementary School, located at 4615 Sunflower Dr., Rockville, MD 20853.

**Scope of Services:**

PSI conducted lead in water testing at Flower Valley 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 2/27/18, 2/28/18, 3/8/18, and 3/9/18 to collect samples from 67 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 2/28/18 and 3/9/18 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 Flower Valley Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01288		Hallway	In Front of Rm. 146	Cooler	<1.0	Pass	Testing Complete
LW01289		Hallway	In Front of Rm. 146	Cooler	<1.0	Pass	Testing Complete
LW01314		Hallway	In Front of Gym	Cooler	<1.0	Pass	Testing Complete
LW01315		Hallway		Cooler	<1.0	Pass	Testing Complete
LW01316	120F	Work Room		Faucet	<1.0	Pass	Testing Complete
LW01317	120E	Health Room		Faucet	<1.0	Pass	Testing Complete
LW01318	128D	Kitchen		Faucet	10.4	Pass	Testing Complete
LW01319	128D	Kitchen		Faucet	3.0	Pass	Testing Complete
LW01320	128D	Kitchen		Faucet	1.4	Pass	Testing Complete
LW01321	128D	Kitchen		Faucet	1.5	Pass	Testing Complete
LW01322		Hallway	In Front of Rm. 166	Cooler	<1.0	Pass	Testing Complete
LW01323		Hallway	In Front of Rm 166	Cooler	<1.0	Pass	Testing Complete
LW01324	166B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW01325		Hallway	Next to Rm. 126	Cooler	<1.0	Pass	Testing Complete
LW01326		Hallway	Next to Rm. 126	Cooler	<1.0	Pass	Testing Complete
LW01327	139	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01328	160	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01329	160	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36731	101	Music Room		Faucet	<1.0	Pass	Testing Complete
M36732	101	Music Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36740	106	Classroom		Faucet	<1.0	Pass	Testing Complete
M36741	106	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M36766	109	Classroom		Faucet	<1.0	Pass	Testing Complete
M36767	109	Classroom		Bubbler - Indoor	6.2	Pass	Testing Complete
M36768	111	Classroom		Faucet	<1.0	Pass	Testing Complete
M36769	111	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36770	110	Classroom		Faucet	<1.0	Pass	Testing Complete
M36771	110	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36773	112	Classroom		Faucet	<1.0	Pass	Testing Complete
M36774	112	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36776	113	Classroom		Faucet	<1.0	Pass	Testing Complete
M36777	113	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36778	114	Classroom		Faucet	2.2	Pass	Testing Complete
M36779	114	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36787	127	Reading		Faucet	1.1	Pass	Testing Complete
M36795	135	Therapy		Faucet	1.0	Pass	Testing Complete
M36796	137	Classroom		Faucet	<1.0	Pass	Testing Complete
M36797	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36798	136	Resource		Faucet	9.2	Pass	Testing Complete
M36806	138	Classroom		Faucet	<1.0	Pass	Testing Complete
M36807	138	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36812	139	Classroom		Faucet	<1.0	Pass	Testing Complete
M36816	159	Classroom		Faucet	<1.0	Pass	Testing Complete
M36817	159	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36818	140	Break Room		Faucet	<1.0	Pass	Testing Complete
M36820	143	Classroom		Faucet	<1.0	Pass	Testing Complete
M36821	143	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36822	144	Classroom		Faucet	<1.0	Pass	Testing Complete
M36823	144	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36824	158	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M36825	158	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36826	157	Classroom		Faucet	<1.0	Pass	Testing Complete
M36827	157	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36836	154	Classroom		Faucet	<1.0	Pass	Testing Complete
M36837	154	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
M36838	145	Classroom		Faucet	5.2	Pass	Testing Complete
M36839	145	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36840	153	Conference		Faucet	<1.0	Pass	Testing Complete
M36841	148	Classroom		Faucet	<1.0	Pass	Testing Complete
M36842	148	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36843	149	Classroom		Faucet	1.8	Pass	Testing Complete
M36844	149	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M36845	150	Office		Faucet	1.2	Pass	Testing Complete
M36846	151	Classroom		Faucet	1.2	Pass	Testing Complete
M36847	151	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
M36848	152	Classroom		Faucet	2.9	Pass	Testing Complete
M36849	152	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

\*ppb = parts per billion