

Montgomery County Public Schools Lead in Drinking Water Testing Report

Flower Valley Elementary School
4615 Sunflower Drive
Rockville, MD 20853

Report Date: March 30th, 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	3/5/2020
# of Outlets Tested	65
# of Outlets \geq 5 ppb	1

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. Due to the Stay-at-Home Order to combat the spread of COVID-19 (coronavirus), no follow-up samples were collected. 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.
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.
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

Sampling Results for Flower Valley ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW01288	In hallway In front of 146	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01289	In hallway In front of 146	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01314	In hallway In front of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01315	In hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01316	In work room 120F	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01317	In health room 120E	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW01319	In kitchen 128D	Kitchen Sink	1.9	Pass	N/A	Testing Complete
LW01320	In kitchen 128D	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01321	In kitchen 128D	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01322	In hallway In front of 166	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01323	In hallway In front of 166	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01324	In work room 166B by media center	Classroom Sink	1.3	Pass	N/A	Testing Complete
LW01325	In hallway next to 126	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01326	In hallway next to 126	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01327	In classroom 139	Classroom Combination Drinking Fountain	1.3	Pass	N/A	Testing Complete
LW01328	In classroom 160	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01329	In classroom 160	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36731	In classroom 101 by music	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36732	In classroom 101 by music	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36740	In classroom 106	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36741	In classroom 106	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36766	In classroom 109	Classroom Sink	<1	Pass	N/A	Testing Complete
M36768	In classroom 111	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36769	In classroom 111	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36770	In classroom 110	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36771	In classroom 110	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36773	In classroom 112	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36774	In classroom 112	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M36776	In classroom 113	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36777	In classroom 113	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36778	In classroom 114	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36779	In classroom 114	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36787	In reading 127	Classroom Sink	<1	Pass	N/A	Testing Complete
M36795	In therapy 135	Classroom Sink	<1	Pass	N/A	Testing Complete
M36796	In classroom 137	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36797	In classroom 137	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36806	In classroom 138	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36807	In classroom 138	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36812	In classroom 139	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36816	In classroom 159	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36817	In classroom 159	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36818	In break room 140	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M36820	In classroom 143	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36821	In classroom 143	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36822	In classroom 144	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36823	In classroom 144	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36824	In classroom 158	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36825	In classroom 158	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36826	In classroom 157	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36827	In classroom 157	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36836	In classroom 154	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36837	In classroom 154	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36839	In classroom 145	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36840	In conference 153	Classroom Sink	1.3	Pass	N/A	Testing Complete
M36841	In classroom 148	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36842	In classroom 148	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36843	In classroom 149	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36844	In classroom 149	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36845	In office 150 by math	Classroom Sink	1.4	Pass	N/A	Testing Complete

M36846	In classroom 151	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36847	In classroom 151	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M36848	In classroom 152	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M36849	In classroom 152	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw07758	In Classroom 145	Classroom Combination Sink	3.1	Pass	N/A	Testing Complete
M36798	In Classroom 136	Classroom Sink	5.6	Fail	NC	Remediation Action Plan

NC - Not Collected (No follow-up sample collected due to COVID-19 (Coronavirus) Stay-at-Home Order.)



**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.

Nand Kaushik, P.E.
Department Manager, Environmental Services
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