



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

**Executive Summary:**  
**Ritchie Park Elementary School**  
1514 Dunster Road,  
Rockville, MD 20854

Date of Test Report:	5/2/2018
Round of Testing:	Initial
# of Outlets Tested:	38
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	5.2

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



June 26, 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: Ritchie Park Elementary School  
1514 Dunster Road,  
Rockville, MD 20854

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 Ritchie Park Elementary School, located at 1514 Dunster Road, Rockville, MD 20854.

**Scope of Services:**

PSI conducted lead in water testing at Ritchie Park 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 5/1/18 and 5/2/18 to collect samples from 38 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 5/2/18 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 Ritchie Park Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW11583	102B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW11584		Hallway	In Front Of 114	Cooler	<1.0	Pass	Testing Complete
LW11585	126	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11586	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11587	117	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11588	115	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11589	113	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11590	100H	Health Room		Faucet	2.4	Pass	Testing Complete
LW11591	100G	Work Room Administration		Faucet	5.2	Pass	Testing Complete
LW11592	105D	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW11593	105D	Kitchen		Faucet	1.7	Pass	Testing Complete
LW11594	105D	Kitchen		Faucet	1.5	Pass	Testing Complete
LW11595	105D	Kitchen		Faucet	3.2	Pass	Testing Complete
LW11596	129	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11597	129	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11598	127	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11599	127	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11600		Hallway	Left Of 140	Cooler	<1.0	Pass	Testing Complete
LW11601	140	Break Room		Faucet	<1.0	Pass	Testing Complete
LW11602		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
LW11603	134	Support Room		Faucet	1.7	Pass	Testing Complete
LW11604	125	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11605	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW11606	126	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11607	123	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW11608	119	Music		Faucet	1.9	Pass	Testing Complete
LW11609	211	Office		Faucet	<1.0	Pass	Testing Complete
LW11610		Hallway	In Front Of 209	Cooler	<1.0	Pass	Testing Complete
LW11611	202	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11612	204	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11613	201	Music		Faucet	<1.0	Pass	Testing Complete
LW11614	206	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11615	213	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11616	215	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11617	217	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11618	219	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11619	214	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11620	216	Classroom		Faucet	1.0	Pass	Testing Complete

\*ppb = parts per billion