



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

**Executive Summary:
Carderock Springs Elementary School**

7401 Persimmon Tree Lane,
Bethesda, MD 20817

Date of Test Report:	6/1/2018
Round of Testing:	Initial
# of Outlets Tested:	67
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	8.4

Project Status

Initial testing complete: All results less than 20 ppb.



June 1, 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: Carderock Springs Elementary School
7401 Persimmon Tree Lane,
Bethesda, MD 20817

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 Carderock Springs Elementary School, located at 7401 Persimmon Tree Lane, Bethesda, MD 20817.

Scope of Services:

PSI conducted lead in water testing at Carderock Springs 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 4/19/18 and 4/20/18 to collect samples from 67 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 4/20/18 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 Carderock Springs Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01928		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01929		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01930		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01931		Hallway	Across From 42	Cooler	<1.0	Pass	Testing Complete
LW01932		Hallway	Across From 42	Cooler	<1.0	Pass	Testing Complete
LW01933		Break Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08591	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08592	202	Classroom		Faucet	<1.0	Pass	Testing Complete
M08593	206	Classroom		Faucet	<1.0	Pass	Testing Complete
M08594	206	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08595	212	Classroom		Faucet	<1.0	Pass	Testing Complete
M08596	212	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08597		Hallway	Next to CR 212	Cooler	<1.0	Pass	Testing Complete
M08598		Hallway	Next to CR 212	Cooler	<1.0	Pass	Testing Complete
M08618	115	Classroom		Faucet	<1.0	Pass	Testing Complete
M08619	115	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08620	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08621	124	Classroom		Faucet	<1.0	Pass	Testing Complete
M08622	111	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08623	111	Classroom		Faucet	<1.0	Pass	Testing Complete
M08624	120	Classroom		Faucet	<1.0	Pass	Testing Complete
M08625	120	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08626	109	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M08627	109	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08628	116	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08629	116	Classroom		Faucet	<1.0	Pass	Testing Complete
M08631	112	Classroom		Faucet	<1.0	Pass	Testing Complete
M08632	112	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08636		Hallway	Next to GBR 108	Cooler	<1.0	Pass	Testing Complete
M08637		Hallway	Next to GBR 108	Cooler	<1.0	Pass	Testing Complete
M08642	102	Health		Faucet	<1.0	Pass	Testing Complete
M08646	100E	Work Room Admin	Inside Admin	Faucet	<1.0	Pass	Testing Complete
M08647	101A	Media Center	Inside IMC	Faucet	<1.0	Pass	Testing Complete
M08648	132	Classroom		Faucet	<1.0	Pass	Testing Complete
M08649	132	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08650	136	Classroom		Faucet	<1.0	Pass	Testing Complete
M08651	136	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08652	129	Classroom		Faucet	<1.0	Pass	Testing Complete
M08653	129	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08654	140	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08655	140	Classroom		Faucet	<1.0	Pass	Testing Complete
M08659		Classroom	Next to BBR 133	Cooler	<1.0	Pass	Testing Complete
M08660		Hallway	Next to BBR 133	Cooler	<1.0	Pass	Testing Complete
M08664		Hallway	Next to 135B Office	Faucet	<1.0	Pass	Testing Complete
M08666	25	Classroom		Faucet	<1.0	Pass	Testing Complete
M08667	25	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08669	28	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08670	28	Classroom		Faucet	1.2	Pass	Testing Complete
M08671	21	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08672	21	Classroom		Faucet	<1.0	Pass	Testing Complete
M08674	24	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M08675	24	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08676	20	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08677	20	Classroom		Faucet	<1.0	Pass	Testing Complete
M08678	19	Classroom		Faucet	<1.0	Pass	Testing Complete
M08679	19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08681	16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08682	16	Classroom		Faucet	<1.0	Pass	Testing Complete
M08684	15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08689		Hallway	Next to GBR 08	Cooler	<1.0	Pass	Testing Complete
M08690		Hallway	Next to GBR 08	Cooler	<1.0	Pass	Testing Complete
M08694	3	Counselor		Faucet	5.8	Pass	Testing Complete
M08695	3	Counselor		Bubbler - Indoor	8.4	Pass	Testing Complete
M08698	34	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M08699	34	Music		Faucet	<1.0	Pass	Testing Complete
M08705	33	Kitchen		Faucet	<1.0	Pass	Testing Complete
M08718	40	Break Room		Faucet	<1.0	Pass	Testing Complete

*ppb = parts per billion