



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

Executive Summary:

Montgomery Knolls Elementary School

807 Daleview Drive
Silver Spring, MD 20901

Date of Test Report:	03/12/2018
Round of Testing:	Initial
# of Outlets Tested:	86
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	6.3

Project Status

Initial testing complete: All results less than 20 ppb.



March 12, 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: Montgomery Knolls Elementary School
807 Daleview Drive
Silver Spring, MD 20901

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 Montgomery Knolls Elementary School, located at 807 Daleview Drive, Silvers Spring, MD 20901.

Scope of Services:

PSI conducted lead in water testing at Montgomery Knolls 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 02/07/18 and 02/08/18 to collect samples from 86 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 02/08/18 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 Montgomery Knolls Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00391	130	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00392	125	Classroom		Faucet	1.8	Pass	Testing Complete
LW00393	125	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00394	125	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00395	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00396	128	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00397	128	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00398	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00399	124	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00400	124	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00401	123	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00403	122	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00404	114	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00405		Hallway	Across From CR 114	Cooler	<1.0	Pass	Testing Complete
LW00407	102A	Health Room		Faucet	1.8	Pass	Testing Complete
LW00408		Hallway	Next To 103 - Media Center	Cooler	1.1	Pass	Testing Complete
LW00409		Hallway	Next To 103 Media Center	Cooler	<1.0	Pass	Testing Complete
LW00410	196	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00411	224	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW00709	186	Break Room		Faucet	<1.0	Pass	Testing Complete
LW00710	163	Kitchen		Faucet	2.4	Pass	Testing Complete
LW00711	163	Kitchen		Faucet	4.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW00712	163	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW00713	170C	Conference Room Special Ed		Faucet	<1.0	Pass	Testing Complete
LW00714	132	Classroom		Faucet	<1.0	Pass	Testing Complete
LW00715	132	Classroom		Bubbler - Indoor	2.5	Pass	Testing Complete
LW02081		Hallway	Left Of CR 167	Cooler	<1.0	Pass	Testing Complete
LW02082		Hallway	Left Of CR 167	Cooler	<1.0	Pass	Testing Complete
M00610	100D	Work Room		Faucet	3.6	Pass	Testing Complete
M00612	106	Resource		Faucet	2.4	Pass	Testing Complete
M00620	118	Office	PEP	Faucet	<1.0	Pass	Testing Complete
M00621	120	Classroom		Faucet	1.2	Pass	Testing Complete
M00628	123	Classroom		Faucet	<1.0	Pass	Testing Complete
M00642	130	Classroom		Faucet	<1.0	Pass	Testing Complete
M00644	132	Classroom		Faucet	1.5	Pass	Testing Complete
M00646	133	Music		Faucet	1.6	Pass	Testing Complete
M00663	188	Classroom		Faucet	1.6	Pass	Testing Complete
M00665	190	Classroom		Faucet	<1.0	Pass	Testing Complete
M00667	173	Classroom		Faucet	2.6	Pass	Testing Complete
M00669	192	Classroom		Faucet	1.8	Pass	Testing Complete
M00671	175	Classroom		Faucet	1	Pass	Testing Complete
M00673	194	Classroom		Faucet	1.9	Pass	Testing Complete
M00677	177	Classroom		Faucet	2.7	Pass	Testing Complete
M09791		Hallway	Across From CR 151	Cooler	<1.0	Pass	Testing Complete
M09792		Hallway	Near CR 151	Cooler	<1.0	Pass	Testing Complete
M09799	151	Resource		Faucet	<1.0	Pass	Testing Complete
M09800	151	Resource		Bubbler - Indoor	4.9	Pass	Testing Complete
M09801	153	Resource		Faucet	2.7	Pass	Testing Complete
M09802	153	Resource		Bubbler - Indoor	6.3	Pass	Testing Complete
M09803	157	Resource		Faucet	2.9	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M09804	157	Resource		Bubbler - Indoor	3	Pass	Testing Complete
M09805	147	Classroom		Faucet	<1.0	Pass	Testing Complete
M09806	147	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09807	150	Classroom		Faucet	<1.0	Pass	Testing Complete
M09808	150	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M09810	143	Art		Faucet	<1.0	Pass	Testing Complete
M09811	143	Art		Faucet	<1.0	Pass	Testing Complete
M09812	146	Classroom		Faucet	3.7	Pass	Testing Complete
M09813	146	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M09816		Hallway	Left Of Office 152	Cooler	<1.0	Pass	Testing Complete
M09817		Hallway	Left Of Office 152	Cooler	<1.0	Pass	Testing Complete
M09818	144	Classroom		Faucet	<1.0	Pass	Testing Complete
M09819	144	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09829	140	Classroom		Faucet	<1.0	Pass	Testing Complete
M09830	140	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09832	138	Classroom		Faucet	<1.0	Pass	Testing Complete
M09833	138	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
M09835	121	Classroom		Faucet	<1.0	Pass	Testing Complete
M09836	121	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
M09838	202	Classroom		Faucet	<1.0	Pass	Testing Complete
M09839	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09840	210	Classroom		Faucet	<1.0	Pass	Testing Complete
M09841	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09850	214	Classroom		Faucet	1.7	Pass	Testing Complete
M09851	214	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09852	209	Classroom		Faucet	1.4	Pass	Testing Complete
M09853	209	Classroom		Bubbler - Indoor	1.6	Pass	Testing Complete
M09855	211	Classroom		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M09856	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09857	220	Classroom		Faucet	<1.0	Pass	Testing Complete
M09858	220	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09859	215	Classroom		Faucet	<1.0	Pass	Testing Complete
M09860	215	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09861	224	Classroom		Faucet	<1.0	Pass	Testing Complete
M09863		Hallway	Near CR 215	Cooler	<1.0	Pass	Testing Complete
M09864		Hallway	Near CR 215	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion