



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

Executive Summary:
Julius West Middle School
651 Great Falls Road
Rockville, MD 20850

Date of Test Report:	5/1/2018
Round of Testing:	Initial
# of Outlets Tested:	58
# 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.



July 24, 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: Julius West Middle School
651 Great Falls Road
Rockville, MD 20850

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 Julius West Middle School, located 651 Great Falls Road, Rockville, MD 20850.

Scope of Services:

PSI conducted lead in water testing at Julius West Middle 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 4/30/18 and 5/1/18 to collect samples from 59 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 4/27/18 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

Attachments: A – Lead in Water Test Summary Table

ATTACHMENT A

Julius West Middle School Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Julius West Middle School (5/1/18)

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09390		Kitchen Cafeteria		Faucet	1.0	Pass	Testing Complete
LW09391		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW09392		Kitchen Cafeteria		Faucet	1.2	Pass	Testing Complete
LW09393		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW09394		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW09395		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
LW09396		Kitchen Cafeteria		Faucet	1.2	Pass	Testing Complete
LW09397		Kitchen Cafeteria		Faucet	1.5	Pass	Testing Complete
LW09398		Kitchen Cafeteria	Right Of Main Kitchen	Faucet	<1.0	Pass	Testing Complete
LW09399		Hallway	Right Of 123c Gbr	Cooler	<1.0	Pass	Testing Complete
LW09400		Hallway	Right Of 123c Gbr	Cooler	<1.0	Pass	Testing Complete
LW09401		Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
LW09402		Work Room Administration	Adm E	Faucet	<1.0	Pass	Testing Complete
LW09403	104A	Health Room		Faucet	<1.0	Pass	Testing Complete
LW09404		Hallway	Across From Cr 110	Cooler	<1.0	Pass	Testing Complete
LW09405		Hallway	Across From 126b	Cooler	<1.0	Pass	Testing Complete
LW09406	142	Locker Room - Girls		Cooler	<1.0	Pass	Testing Complete
LW09407		Hallway	Right Of Cr 119	Cooler	<1.0	Pass	Testing Complete
LW09408		Hallway	Left Of Boys Locker Room	Cooler	<1.0	Pass	Testing Complete
LW09409	142A	Locker Room - Boys		Cooler	<1.0	Pass	Testing Complete
LW09410	LAB-5	Home Economics		Faucet	2.3	Pass	Testing Complete
LW09413	LAB-5	Home Economics		Faucet	1.7	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW09414		Hallway	Right Of 223c	Cooler	<1.0	Pass	Testing Complete
LW09415		Hallway	Left Of 213a Girls Br	Cooler	<1.0	Pass	Testing Complete
LW09416		Hallway	Across From Cr-208	Cooler	<1.0	Pass	Testing Complete
LW09417	204	Team Room		Faucet	<1.0	Pass	Testing Complete
LW12167		Cafeteria		Cooler	<1.0	Pass	Testing Complete
M25585	231A	Office		Faucet	1.0	Pass	Testing Complete
M33400	131	Team Room		Faucet	<1.0	Pass	Testing Complete
M33401		Hallway	Left Of A116	Cooler	<1.0	Pass	Testing Complete
M33402		Hallway	Left Of A116	Cooler	<1.0	Pass	Testing Complete
M33403		Hallway	Left Of A116	Cooler	<1.0	Pass	Testing Complete
M33404		Hallway	Left Of A116	Cooler	<1.0	Pass	Testing Complete
M33409	A112	Team Room		Faucet	<1.0	Pass	Testing Complete
M33411	A131	Break Room		Faucet	<1.0	Pass	Testing Complete
M33412		Hallway	Outside Of A131	Cooler	<1.0	Pass	Testing Complete
M33413		Hallway	Outside Of A131	Cooler	<1.0	Pass	Testing Complete
M33414		Hallway	Across From A201	Cooler	<1.0	Pass	Testing Complete
M33415		Hallway	Across From A201	Cooler	<1.0	Pass	Testing Complete
M33421	A217	Team Room		Faucet	<1.0	Pass	Testing Complete
M33423	A222A	Team Room		Faucet	<1.0	Pass	Testing Complete
M33427	LAB-2	Computer		Faucet	<1.0	Pass	Testing Complete
M33428	LAB-3	Computer		Faucet	1.0	Pass	Testing Complete
M33429	LAB-3	Computer		Faucet	<1.0	Pass	Testing Complete
M33430	LAB-3	Computer		Faucet	<1.0	Pass	Testing Complete
M33439		Hallway	Across From Cr7	Cooler	<1.0	Pass	Testing Complete
M33440		Hallway	Across From Cr7	Cooler	<1.0	Pass	Testing Complete
M45001	234A	Office		Faucet	<1.0	Pass	Testing Complete
M45012	234C	Team Room		Faucet	2.5	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M45075	227A	Testing Room		Faucet	1.2	Pass	Testing Complete
M45078	228	Language Office		Faucet	2.6	Pass	Testing Complete
M45087	224	Team Rm		Faucet	<1.0	Pass	Testing Complete
M45106		Hallway	Across 01E	Cooler	<1.0	Pass	Testing Complete
M45115	LAB-5	Home Economics		Faucet	2.8	Pass	Testing Complete
M45116	LAB-5	Home Economics		Faucet	5.2	Pass	Testing Complete
M45190	132	Team Room		Faucet	<1.0	Pass	Testing Complete
M45240		Kitchen Cafeteria		Faucet	<1.0	Pass	Testing Complete
M45248		Kitchen Cafeteria		Ice Maker	<1.0	Pass	Testing Complete

*ppb = parts per billion