



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary:

Rockville High School

2100 Baltimore Rd.

Rockville, MD 20851

Date of Test Report:	04/03/2018
Round of Testing:	Initial
# of Outlets Tested:	86
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	6.7

Project Status

Initial testing complete: All results less than 20 ppb.



April 3, 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: Rockville High School
2100 Baltimore Rd.
Rockville, MD 20851

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 Rockville High School, located at 2100 Baltimore Rd, Rockville, MD 20851.

Scope of Services:

PSI conducted lead in water testing at Rockville High 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 03/06/18 and 03/07/18 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 03/07/18 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 Rockville High School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01431		Hallway	In Front of 1007	Cooler	<1.0	Pass	Testing Complete
LW01432		Hallway	In Front of 1007	Cooler	<1.0	Pass	Testing Complete
LW01433	1003N	Conference Room		Faucet	<1.0	Pass	Testing Complete
LW01434	1050	Break Room		Faucet	<1.0	Pass	Testing Complete
LW01435	1055B	Kitchen		Faucet	1.2	Pass	Testing Complete
LW01436	1055B	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01437	1055B	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01438		Hallway	In Front of Gym	Cooler	<1.0	Pass	Testing Complete
LW01439		Hallway	In Front of Gym	Cooler	<1.0	Pass	Testing Complete
LW01440	1093	Office		Faucet	1.0	Pass	Testing Complete
LW01441		Hallway	In Front of Auditorium	Cooler	<1.0	Pass	Testing Complete
LW01442		Hallway	In Front of Auditorium	Cooler	<1.0	Pass	Testing Complete
LW01443		Hallway	Right of 1105	Cooler	<1.0	Pass	Testing Complete
LW01444	1083F	Office		Faucet	1.0	Pass	Testing Complete
LW01445	1080	Child Development		Faucet	<1.0	Pass	Testing Complete
LW01446	1080	Child Development		Faucet	<1.0	Pass	Testing Complete
LW01447	1080	Child Development		Faucet	1.0	Pass	Testing Complete
LW01448	1080	Child Development		Faucet	<1.0	Pass	Testing Complete
LW01449	1071	Dressing Room - Girls		Faucet	4.5	Pass	Testing Complete
LW01450	2042	English Office		Faucet	<1.0	Pass	Testing Complete
LW01451	2078	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01452	2098	Office		Faucet	<1.0	Pass	Testing Complete
LW01453		Hallway	Across From 2101	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01454		Home Economics		Faucet	<1.0	Pass	Testing Complete
LW07284	1107	Training Room		Icemaker	1.3	Pass	Testing Complete
LW07285		Hallway	Next to Girls Locker	Cooler	<1.0	Pass	Testing Complete
LW07286	2002	Office		Faucet	<1.0	Pass	Testing Complete
M27974	2015A	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M27976	2010	Special Ed		Faucet	<1.0	Pass	Testing Complete
M27977		Hallway	Near Room 2027	Cooler	<1.0	Pass	Testing Complete
M27978		Hallway	Near Room 2027	Cooler	<1.0	Pass	Testing Complete
M27985	2030	Social Studies Office		Faucet	<1.0	Pass	Testing Complete
M27986		Hallway	Across Room 2047	Cooler	<1.0	Pass	Testing Complete
M27987		Hallway	Across Room 2047	Cooler	<1.0	Pass	Testing Complete
M27992	2032	Work Room		Faucet	1.0	Pass	Testing Complete
M28000	2083	Classroom		Faucet	<1.0	Pass	Testing Complete
M28003		Girls Locker Room	Team Room area	Cooler	<1.0	Pass	Testing Complete
M28004		Girls Locker Room	Team Room area	Cooler	<1.0	Pass	Testing Complete
M28010		Hallway	Aux Gym Hall	Cooler	<1.0	Pass	Testing Complete
M28011		Hallway	Aux Gym Hall	Cooler	<1.0	Pass	Testing Complete
M28017	2096	Math Office		Faucet	1.4	Pass	Testing Complete
M28019		Hallway	Across Room 3037	Cooler	<1.0	Pass	Testing Complete
M28020		Hallway	Across Room 3037	Cooler	<1.0	Pass	Testing Complete
M28027	3012	Home Economics	Food Lab	Faucet	<1.0	Pass	Testing Complete
M28028	3012	Home Economics	Food Lab	Faucet	1.8	Pass	Testing Complete
M28029	3012	Home Economics	Food Lab	Faucet	<1.0	Pass	Testing Complete
M28030	3012	Home Economics	Food Lab	Faucet	<1.0	Pass	Testing Complete
M28031	3012	Home Economics	Food Lab	Faucet	<1.0	Pass	Testing Complete
M28032	3012	Home Economics	Food Lab	Faucet	<1.0	Pass	Testing Complete
M28034	3012	Home Economics	Food Lab	Faucet	<1.0	Pass	Testing Complete
M28035	3012	Home Economics	Food Lab	Faucet	1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M28038		Hallway	Across Room 3023	Cooler	<1.0	Pass	Testing Complete
M28039		Hallway	Across Room 3023	Cooler	<1.0	Pass	Testing Complete
M28048	3007	Office		Faucet	<1.0	Pass	Testing Complete
M28049		Hallway	Across Room 1037	Cooler	<1.0	Pass	Testing Complete
M28050		Hallway	Across Room 1037	Cooler	<1.0	Pass	Testing Complete
M28056	1035	Language Office		Faucet	<1.0	Pass	Testing Complete
M28057	1030	Interp. Services		Faucet	<1.0	Pass	Testing Complete
M28060	1024	Break Room		Faucet	<1.0	Pass	Testing Complete
M28061	1031C	Office ESOL Office		Faucet	<1.0	Pass	Testing Complete
M28062		Hallway	Across Room 1017	Cooler	<1.0	Pass	Testing Complete
M28063		Hallway	Across Room 1017	Cooler	<1.0	Pass	Testing Complete
M28071		Break Room Admin		Faucet	<1.0	Pass	Testing Complete
M28076		Health Room Health		Faucet	<1.0	Pass	Testing Complete
M28082		Kitchen		Faucet	<1.0	Pass	Testing Complete
M28083		Kitchen		Faucet	<1.0	Pass	Testing Complete
M28084		Kitchen		Faucet	1.1	Pass	Testing Complete
M28087	1055B	Kitchen		Faucet	1.3	Pass	Testing Complete
M28088	1055B	Kitchen		Faucet	<1.0	Pass	Testing Complete
M28093	1055B	Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M28107		Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M28108		Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M28109	1107	Training Room		Faucet	<1.0	Pass	Testing Complete
M28141	1065	Concession Auditorium		Faucet	<1.0	Pass	Testing Complete
M28142		Hallway	Outside Room 1070	Cooler	<1.0	Pass	Testing Complete
M28143		Hallway	Outside Room 1070	Cooler	<1.0	Pass	Testing Complete
M28146	1072	Dressing		Faucet	1.3	Pass	Testing Complete
M28147	1072	Dressing		Faucet	1.5	Pass	Testing Complete
M28148	1073	Boys Locker Room		Faucet	3.5	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M28153	1011A	Classroom		Faucet	5.0	Pass	Testing Complete
M28154	1013	Classroom		Faucet	3.7	Pass	Testing Complete
M28155	1013	Classroom		Faucet	6.7	Pass	Testing Complete
M28156	1013	Classroom		Cooler	<1.0	Pass	Testing Complete
M28157	1013	Classroom		Cooler	<1.0	Pass	Testing Complete
M28158	1015	Computer Lab		Faucet	3.7	Pass	Testing Complete
M28159	1015	Computer Lab		Faucet	1.2	Pass	Testing Complete

*ppb = parts per billion