

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Rockville High School
5121 Russett Road
Rockville, MD 20853**

Report Date: April 3rd, 2020

LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	3/4/2020
# of Outlets Tested	82
# of Outlets \geq 5 ppb	0

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be immediately shut-down, a follow-up sample collected, and a remedial plan of action developed for this outlet. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Lead is stored in the bones and it can be released later in life. During pregnancy, the fetus receives lead from the mother's bones, which may affect brain development. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

SOURCES OF HUMAN EXPOSURE TO LEAD

There are many different sources of human exposure to lead. These include: lead-based paint, lead-contaminated dust or soil, some plumbing materials, certain types of pottery, pewter, brass fixtures, food, cosmetics, exposure in the work place and from certain hobbies. According to the Environmental Protection Agency (EPA), 10 to 20 percent of a person's potential exposure to lead may come from drinking water, while for an infant consuming formula mixed with lead-containing water this may increase to 40 to 60 percent.

TO REDUCE EXPOSURE TO LEAD IN DRINKING WATER:

1. Run your water to flush out lead: If water hasn't been used for several hours, run water for 15 to 30 seconds or until it becomes cold or reaches a steady temperature before using it for drinking or cooking.
2. Use cold water for cooking and preparing baby formula: Lead from the plumbing dissolves more easily into hot water.

**Please note that boiling the water will not reduce lead levels.*

ADDITIONAL INFORMATION

1. For additional information, please contact Brian Mullikin, Environmental Team Leader, at 240.740.2324 or brian_a_mullikin@mcpsmd.org.
2. For additional information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's website at www.epa.gov/lead.
3. If you are concerned about exposure; contact your local health department or healthcare provider to find out how you can get your child tested for lead.

Please refer to the attachment(s) for additional water sampling information.

Attachment(s) A – Lead in Water Sample Results Table

ATTACHMENT A

Lead in Water Sample Results Table

Sampling Results for Rockville HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW01431	In hallway In front of 1007	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01432	In hallway In front of 1007	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01433	In conference room 1003N	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01434	In break room 1050	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW01435	In kitchen 1055B	Kitchen Sink	2.0	Pass	N/A	Testing Complete
LW01436	In kitchen 1055B	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01437	In kitchen 1055B	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01438	In hallway In front of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01439	In hallway In front of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01440	In office 1093	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01441	In hallway In front of aud	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01442	In hallway In front of aud	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01443	In hallway right of 1105	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01444	In office 1083F	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01445	In child development 1080	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01446	In child development 1080	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01447	In child development 1080	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01448	In child development 1080	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01449	In dressing room - girls 1071	Classroom Sink	2.6	Pass	N/A	Testing Complete
LW01450	In english office 2042	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01451	In classroom 2078	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01452	In office 2098	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01453	In hallway across from 2101	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01454	In home economics	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
LW07284	In training room 1107	Ice Machine	<1	Pass	N/A	Testing Complete

LW07285	In hallway next to girls locker	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07286	In office 2002	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M27974	In work room 2015A by media center	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M27976	In special ed 2010	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M27977	In hallway near CR 2027	Drinking Fountain	<1	Pass	N/A	Testing Complete
M27978	In hallway near CR 2027	Drinking Fountain	<1	Pass	N/A	Testing Complete
M27985	In social studies office 2030	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M27986	In hallway across CR 2047	Drinking Fountain	<1	Pass	N/A	Testing Complete
M27987	In hallway across CR 2047	Drinking Fountain	1.5	Pass	N/A	Testing Complete
M27992	In work room 2032	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28000	In classroom 2083	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28003	In girls locker room team area	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28004	In girls locker room team area	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28010	In hallway Aux gym hall	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28011	In hallway Aux gym hall	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28017	In office 2096 by math	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28019	In hallway across 3037	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28020	In hallway across 3037	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28027	In home economics 3012 Food lab	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
M28028	In home economics 3012 Food lab	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
M28029	In home economics 3012 Food lab	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
M28030	In home economics 3012 Food lab	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
M28031	In home economics 3012 Food lab	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
M28032	In home economics 3012 Food lab	Home Economics Room Sink	<1	Pass	N/A	Testing Complete
M28034	In home economics 3012 Food lab	Home Economics Room Sink	1.6	Pass	N/A	Testing Complete
M28035	In home economics 3012 Food lab	Home Economics Room Sink	1.1	Pass	N/A	Testing Complete
M28038	In hallway across CR 3023	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28039	In hallway across CR 3023	Drinking Fountain	<1	Pass	N/A	Testing Complete

M28048	In office 3007	Classroom Sink	<1	Pass	N/A	Testing Complete
M28049	In hallway across CR 1037	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28050	In hallway across CR 1037	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28056	In Lang office 1035	Classroom Sink	<1	Pass	N/A	Testing Complete
M28057	In Interp. Services 1030	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M28060	In break room 1024	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M28061	In office 1031C by ESOL office	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M28062	In hallway across 1017	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28063	In hallway across 1017	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28071	In break room by admin	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M28075	In work room 1003	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M28076	In health room by health	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M28082	In kitchen by kitchen	Kitchen Sink	1.8	Pass	N/A	Testing Complete
M28083	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M28084	In kitchen by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M28087	In kitchen 1055B by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M28088	In kitchen 1055B by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M28093	In kitchen 1055B by kitchen	Ice Machine	<1	Pass	N/A	Testing Complete
M28107	In boys locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28108	In boys locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28109	In training room 1107	Classroom Sink	<1	Pass	N/A	Testing Complete
M28141	In concession 1065 by auditorium	Classroom Sink	<1	Pass	N/A	Testing Complete
M28142	In hallway outside 1070	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28143	In hallway outside 1070	Drinking Fountain	<1	Pass	N/A	Testing Complete
M28146	In dressing 1072	Classroom Sink	<1	Pass	N/A	Testing Complete
M28147	In dressing 1072	Classroom Sink	<1	Pass	N/A	Testing Complete
M28148	In boys locker room 1073	Classroom Sink	1.6	Pass	N/A	Testing Complete
M28154	In classroom 1013	Classroom Sink	<1	Pass	N/A	Testing Complete

M28159	In computer lab 1015	Classroom Sink	<1	Pass	N/A	Testing Complete
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**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