

Montgomery County Public Schools Lead in Drinking Water Testing Report

Richard Montgomery High School
250 Richard Montgomery Drive
Rockville, MD 20852

Report Date: March 31st, 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	3/6/2020
# of Outlets Tested	75
# of Outlets \geq 5 ppb	5

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. Due to the Stay-at-Home Order to combat the spread of COVID-19 (coronavirus), no follow-up samples were collected. 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 Richard Montgomery HS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
F24410	In kitchen 147	Kitchen Sink	<1	Pass	N/A	Testing Complete
F24411	In kitchen 147	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01516	In hallway across from 326	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01517	In hallway across from 326	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01518	In hallway across from 222	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01519	In hallway across from 222	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01520	In hallway left of 31	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01521	In hallway left of 31	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02411	In work room 141C by councilor	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW02417	In kitchen 147	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW02418	In kitchen 147D by cafeteria	Ice Machine	<1	Pass	N/A	Testing Complete
LW06786	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06787	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06788	In hallway outside of 102 girls restroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06789	In hallway left of room 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW06790	In hallway left of room 128	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09388	In hallway adjacent to girl's locker room 17	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW09389	In hallway adjacent to boy's locker room 13	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW12155	In kitchen 147	Kitchen Sink	6.5	Fail	NC	Remediation Action Plan
LW12156	In hallway adjacent to classroom 352	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW12157	In hallway adjacent to classroom 352	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW12158	In computer lab 336	Classroom Sink	1.5	Pass	N/A	Testing Complete
LW12159	In hallway adjacent to classroom 255	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW12160	In hallway adjacent to classroom 255	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW12162	In training room 16	Ice Machine	<1	Pass	N/A	Testing Complete
LW12164	In concession - stadium	Kitchen Sink	1.7	Pass	N/A	Testing Complete
LW12165	In concession - stadium	Kitchen Sink	1.6	Pass	N/A	Testing Complete
LW12166	In concession - stadium	Ice Machine	<1	Pass	N/A	Testing Complete
M07836	In hallway across from CR 352	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07837	In hallway across from CR 352	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07844	In work room 356	Classroom Sink	<1	Pass	N/A	Testing Complete
M07879	In office 228	Teachers Lounge Sink	7.6	Fail	NC	Remediation Action Plan
M07883	In office 154	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M07884	In work room 129B by media center	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M07891	In kitchen 147 by kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
M07892	In kitchen 147D by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
M07894	In kitchen 147D by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
M07895	In kitchen 147D by cafeteria	Kitchen Sink	<1	Pass	N/A	Testing Complete
M07900	In work room 100B by administration	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M07906	In training room 16	Classroom Sink	<1	Pass	N/A	Testing Complete
M07911	In hallway adjacent to Boy's locker room	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07913	In hallway adjacent to girl's locker room 17	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07915	In hallway adjacent to classroom 109	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07916	In hallway adjacent to classroom 109	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07918	In dressing 110A by Costume room ie. inside 110 Costumes	Classroom Sink	<1	Pass	N/A	Testing Complete
M07920	In dressing 110C by Costume room ie. inside 110 Costumes	Classroom Sink	<1	Pass	N/A	Testing Complete
M07922	In dressing 110E by Costume room ie. inside 110 Costumes	Classroom Sink	<1	Pass	N/A	Testing Complete
M07923	In music 108	Classroom Sink	<1	Pass	N/A	Testing Complete
M07924	In music 108	Classroom Sink	<1	Pass	N/A	Testing Complete
M07925	In office 108A by music ie. inside of	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M07926	In office 107A by music	Teachers Lounge Sink	1.5	Pass	N/A	Testing Complete

M07935	In hallway adjacent to girl's restroom 102	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07936	In hallway adjacent to classroom 102	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07937	In work room 302 Teacher	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M07952	In office 329 by math	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M07955	In hallway across from 222	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07956	In hallway across from 222	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07968	In hallway adjacent to classroom 255	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07969	In hallway adjacent to classroom 255	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07970	In ESOL office 262 by ESOL	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M07974	In hallway next to 169 & Snack machines	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07975	In hallway next to 169 & Snack machines	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07980	In hallway across from 142 career center	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07981	In hallway across from 142 career center	Drinking Fountain	<1	Pass	N/A	Testing Complete
M07996	In work room 31	Teachers Lounge Sink	79.5	Fail	NC	Remediation Action Plan
M08010	In concession 120	Kitchen Sink	<1	Pass	N/A	Testing Complete
M08011	In health 116 by health	Nurses Office Sink	6.8	Fail	NC	Remediation Action Plan
M08021	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M08022	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M08023	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M08024	In hallway outside of gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
M08025	In work room 123	Classroom Sink	2.2	Pass	N/A	Testing Complete
M08048	In work room 256	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M08051	In conference 243	Teachers Lounge Sink	5.2	Fail	NC	Remediation Action Plan
LW08414	In hallway adjacent to gymnasium	Drinking Fountain	<1	Pass	N/A	Testing Complete

NC - Not Collected (No follow-up sample collected due to COVID-19 (Coronavirus) Stay-at-Home Order.)



MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER TESTING 2018

Executive Summary:
Richard Montgomery High School
250 Richard Montgomery Drive
Rockville, MD 20852

Date of Test Report:	6/1/2018
Round of Testing:	Initial
# of Outlets Tested:	80
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	11.0

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: Richard Montgomery High School
250 Richard Montgomery Drive
Rockville, MD 20852

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 Richard Montgomery High School, located at 250 Richard Montgomery Drive, Rockville, MD 20852.

Scope of Services:

PSI conducted lead in water testing at Richard Montgomery 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 4/26/18 and 4/27/18 to collect samples from 80 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

Lead in Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for Richard Montgomery High School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
F24410	147	Kitchen		Faucet	1.5	Pass	Testing Complete
F24411	147	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01516		Hallway	Across From 326	Cooler	<1.0	Pass	Testing Complete
LW01517		Hallway	Across From 326	Cooler	<1.0	Pass	Testing Complete
LW01518		Hallway	Across From 222	Cooler	<1.0	Pass	Testing Complete
LW01519		Hallway	Across From 222	Cooler	<1.0	Pass	Testing Complete
LW01520		Hallway	Left Of 31	Cooler	<1.0	Pass	Testing Complete
LW01521		Hallway	Left Of 31	Cooler	<1.0	Pass	Testing Complete
LW02411	141C	Work Room Counselor		Faucet	1.0	Pass	Testing Complete
LW02413		Kitchen		Instant Hot Water	<1.0	Pass	Testing Complete
LW02414	147D	Kitchen		Instant Hot Water	<1.0	Pass	Testing Complete
LW02416	147D	Kitchen		Faucet	6.4	Pass	Testing Complete
LW02417	147	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW02418	147D	Kitchen Cafeteria		Ice Maker	<1.0	Pass	Testing Complete
LW06786		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW06787		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
LW06788		Hallway	Outside Of 102 Girls Restroom	Cooler	<1.0	Pass	Testing Complete
LW06789		Hallway	Left Of Room 128	Cooler	<1.0	Pass	Testing Complete
LW06790		Hallway	Left Of Room 128	Cooler	<1.0	Pass	Testing Complete
LW09388		Hallway	Across From 22	Cooler	<1.0	Pass	Testing Complete
LW09389		Hallway	Across From 6	Cooler	<1.0	Pass	Testing Complete
LW12155	147	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW12156		Hallway	Right Of 352	Cooler	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW12157		Hallway	Right Of 352	Cooler	<1.0	Pass	Testing Complete
LW12158	336	Computer Lab		Faucet	1.1	Pass	Testing Complete
LW12159		Hallway	Right Of 255	Cooler	<1.0	Pass	Testing Complete
LW12160		Hallway	Right Of 255	Cooler	<1.0	Pass	Testing Complete
LW12161	33A	Classroom		Faucet	<1.0	Pass	Testing Complete
LW12162	16	Training Room		Ice Maker	<1.0	Pass	Testing Complete
LW12163		Concession - Stadium		Faucet	5.8	Pass	Testing Complete
LW12164		Concession - Stadium		Faucet	2.5	Pass	Testing Complete
LW12165		Concession - Stadium		Faucet	2.8	Pass	Testing Complete
M07836		Hallway	Across from CR 352	Cooler	<1.0	Pass	Testing Complete
M07837		Hallway	Across from CR 352	Cooler	<1.0	Pass	Testing Complete
M07844	356	Work Room		Faucet	<1.0	Pass	Testing Complete
M07879	228	Office		Faucet	<1.0	Pass	Testing Complete
M07883	154	Office		Faucet	<1.0	Pass	Testing Complete
M07884	129B	Work Room Media Center		Faucet	<1.0	Pass	Testing Complete
M07891	147	Kitchen		Faucet	<1.0	Pass	Testing Complete
M07892	147D	Kitchen		Faucet	1.5	Pass	Testing Complete
M07894	147D	Kitchen		Faucet	2.3	Pass	Testing Complete
M07895	147D	Kitchen		Faucet	<1.0	Pass	Testing Complete
M07900	100B	Work Room	Administration	Faucet	<1.0	Pass	Testing Complete
M07906	16	Training Room		Faucet	<1.0	Pass	Testing Complete
M07911		Hallway	Across from Rm 6	Cooler	<1.0	Pass	Testing Complete
M07913		Hallway	Across from Rm 22	Cooler	<1.0	Pass	Testing Complete
M07915		Hallway	Across from Rm 109	Cooler	<1.0	Pass	Testing Complete
M07918	110A	Dressing Costume Room	Inside 110	Faucet	<1.0	Pass	Testing Complete
M07920	110C	Dressing Costume Room	Inside 110	Faucet	<1.0	Pass	Testing Complete
M07922	110E	Dressing Costume Room	Inside 110	Faucet	<1.0	Pass	Testing Complete
M07923	108	Music		Faucet	1.4	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M07924	108	Music		Faucet	<1.0	Pass	Testing Complete
M07925	108A	Office Music		Faucet	<1.0	Pass	Testing Complete
M07926	107A	Office Music		Faucet	<1.0	Pass	Testing Complete
M07935		Hallway	Next to 102 GBR	Cooler	<1.0	Pass	Testing Complete
M07936		Hallway	Next to 102 GBR	Cooler	<1.0	Pass	Testing Complete
M07937	302	Work Room		Faucet	1.2	Pass	Testing Complete
M07952	329	Office Math		Faucet	<1.0	Pass	Testing Complete
M07955		Hallway	Across from Rm 222	Cooler	<1.0	Pass	Testing Complete
M07956		Hallway	Across from Rm 222	Cooler	<1.0	Pass	Testing Complete
M07968		Hallway	Around Corner from Rm 258	Cooler	<1.0	Pass	Testing Complete
M07969		Hallway	Around Corner from Rm 258	Cooler	<1.0	Pass	Testing Complete
M07970	262	ESOL Office		Faucet	<1.0	Pass	Testing Complete
M07973	165	Classroom		Faucet	10.1	Pass	Testing Complete
M07974		Hallway	Next to Rm 169 & Snack Machines	Cooler	<1.0	Pass	Testing Complete
M07975		Hallway	Next to Rm 169 & Snack Machines	Cooler	<1.0	Pass	Testing Complete
M07980		Hallway	Across from 142 Career Center	Cooler	<1.0	Pass	Testing Complete
M07981		Hallway	Across from 142 Career Center	Cooler	<1.0	Pass	Testing Complete
M07996	31	Work Room		Faucet	3.0	Pass	Testing Complete
M07997	33A	Classroom		Faucet	11.0	Pass	Testing Complete
M08001	33A	Classroom		Cooler	<1.0	Pass	Testing Complete
M08010	120	Concession		Faucet	1.7	Pass	Testing Complete
M08011	116	Health		Faucet	<1.0	Pass	Testing Complete
M08021		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
M08022		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
M08023		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
M08024		Hallway	Outside Of Gym	Cooler	<1.0	Pass	Testing Complete
M08025	123	Work Room		Faucet	1.9	Pass	Testing Complete
M08048	256	Work Room		Faucet	1.3	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M08051	243	Conference		Faucet	<1.0	Pass	Testing Complete

*ppb = parts per billion