

Montgomery County Public Schools Lead in Drinking Water Testing Report

Rock Creek Valley Elementary School
5121 Russett Road
Rockville, MD 20853

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	3/5/2020
# of Outlets Tested	73
# of Outlets \geq 5 ppb	3

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 Rock Creek Valley ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
E41789	In hallway outside IMC	Drinking Fountain	<1	Pass	N/A	Testing Complete
E41823	In hallway right of CR C8	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01290	In classroom C9	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01291	In classroom C9	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01292	In classroom C11	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01293	In classroom C11	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01294	In classroom C12	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01295	In classroom C12	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01296	In classroom C13	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01297	In classroom C13	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01298	In classroom C14	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01299	In classroom C14	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01300	In classroom C1	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01313	In classroom C6	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01330	In classroom C3	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01331	In classroom C2	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01332	In classroom C2	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01340	In classroom C1	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01455	In health room A2	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW01456	In work room A3	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01457	In classroom A8	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01458	In classroom A8	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01459	In classroom A10	Classroom Combination Sink	79.6	Fail	NC	Remediation Action Plan
LW01460	In classroom A10	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01461	In classroom A11	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01462	In classroom A11	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01463	In classroom A14	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

LW01464	In classroom A14	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01465	In classroom A15	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01466	In classroom A15	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01467	In classroom A7	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01468	In classroom A7	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01469	In classroom A6	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01470	In classroom A6	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01471	In office A5 Dhoh Commons	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01472	In classroom A9	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01473	In classroom A9	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01474	In classroom A16	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01475	In classroom A16	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01476	In classroom A17	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01477	In classroom A17	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01478	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01479	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01480	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01481	In kitchen	Kitchen Sink	34.3	Fail	NC	Remediation Action Plan
LW01482	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW01483	In classroom A18	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01484	In classroom A18	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01485	In classroom A19	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01486	In classroom A19	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01487	In hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01488	In work room B4	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01489	In hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01490	In hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01491	In music B20	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01492	In music B20	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01493	In work room B15	Classroom Combination Sink	<1	Pass	N/A	Testing Complete

LW01494	In classroom C10	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01496	In office B12	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01500	In classroom B13	Classroom Combination Sink	8.7	Fail	NC	Remediation Action Plan
LW01501	In classroom C8	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01502	In classroom C8	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01503	In classroom C6	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01504	In classroom C5	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01505	In classroom C5	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01506	In classroom C4	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW01507	In classroom C4	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01508	In classroom C3	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW02078	In hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02079	In hallway	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW02080	In hallway right of CR C8	Drinking Fountain	<1	Pass	N/A	Testing Complete
M05897	In hallway hall across A9 LTR 1 of 2	Drinking Fountain	<1	Pass	N/A	Testing Complete
M05898	In hallway hall across A9 LTR 2 of 2	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:
Rock Creek Valley Elementary School
5121 Russett Road
Rockville, MD 20853

Date of Test Report:	04/03/2018
Round of Testing:	Initial
# of Outlets Tested:	74
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	3.7

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: Rock Creek Valley Elementary School
5121 Russett Road
Rockville, MD 20853

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 Rock Creek Valley Elementary School, located at 5121 Russett Road, Rockville, MD 20853.

Scope of Services:

PSI conducted lead in water testing at Rock Creek Valley 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 03/05/18 and 03/06/18 to collect samples from 74 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 03/06/18 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 Rock Creek Valley Elementary School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
E41789		Hallway	Outside IMC	Cooler	<1.0	Pass	Testing Complete
E41823		Hallway	Right of Room C8	Cooler	<1.0	Pass	Testing Complete
LW01290	C9	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01291	C9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01292	C11	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01293	C11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01294	C12	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01295	C12	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01296	C13	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01297	C13	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01298	C14	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01299	C14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01300	C1	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01313	C6	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01330	C3	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01331	C2	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01332	C2	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01340	C1	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01455	A2	Health Room		Faucet	<1.0	Pass	Testing Complete
LW01456	A3	Work Room		Faucet	<1.0	Pass	Testing Complete
LW01457	A8	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01458	A8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01459	A10	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01460	A10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01461	A11	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01462	A11	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01463	A14	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01464	A14	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01465	A15	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01466	A15	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01467	A7	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01468	A7	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01469	A6	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01470	A6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01471	A5	Office		Faucet	<1.0	Pass	Testing Complete
LW01472	A9	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01473	A9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01474	A16	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01475	A16	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01476	A17	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01477	A17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01478		Kitchen		Faucet	1.4	Pass	Testing Complete
LW01479		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01480		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01481		Kitchen		Faucet	3.7	Pass	Testing Complete
LW01482		Kitchen		Faucet	<1.0	Pass	Testing Complete
LW01483	A18	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01484	A18	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01485	A19	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01486	A19	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW01487		Hallway		Cooler	<1.0	Pass	Testing Complete
LW01488	B4	Work Room		Faucet	<1.0	Pass	Testing Complete
LW01490		Hallway		Cooler	<1.0	Pass	Testing Complete
LW01491	B20	Music		Faucet	1.2	Pass	Testing Complete
LW01492	B20	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01493	B15	Work Room		Faucet	<1.0	Pass	Testing Complete
LW01494	C10	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01495	C-10	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01496	B12	Office		Faucet	<1.0	Pass	Testing Complete
LW01500	B13	Classroom		Faucet	1.4	Pass	Testing Complete
LW01501	C8	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01502	C8	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01503	C6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01504	C5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01505	C5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01506	C4	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01507	C4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01508	C3	Classroom		Faucet	<1.0	Pass	Testing Complete
LW02078		Hallway		Cooler	<1.0	Pass	Testing Complete
LW02079		Hallway		Cooler	<1.0	Pass	Testing Complete
LW02080		Hallway	Right Of Room C8	Cooler	<1.0	Pass	Testing Complete
M05897		Hallway	Hall Across A9 LTR 1 of 2	Cooler	<1.0	Pass	Testing Complete
M05898		Hallway	Hall Across A9 LTR 2 of 2	Cooler	<1.0	Pass	Testing Complete

*ppb = parts per billion