

# Montgomery County Public Schools Lead in Drinking Water Testing Report

**Rock Terrace School  
390 Martins Lane  
Rockville, MD 20850**

**Report Date: May 5<sup>th</sup>, 2022**

## **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	12/02/2021
# of Outlets Tested	52
# of Outlets $\geq$ 5 ppb	2

## **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](mailto: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](http://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 Terrace School

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW10135	In classroom 112	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10241	In classroom 220	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10130	In classroom R100L	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10137	In classroom R116	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10138	In classroom R122	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10232	In classroom R204	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10236	In classroom R206	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10237	In classroom R210	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10238	In classroom R216	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10239	In classroom R219	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10242	In classroom R223	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10243	In classroom R224	Classroom Sink	<1	Pass	N/A	Testing Complete
LW10205	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10206	In culinary arts R167	Kitchen Sink	1.7	Pass	N/A	Testing Complete
LW10207	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10208	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10209	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10210	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10211	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10212	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10213	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10229	In culinary arts R167	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10230	In culinary arts R167	Ice Machine	<1	Pass	N/A	Testing Complete
LW10226	In gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10227	In gym	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10228	In gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10133	In hallway adjacent to \ R100L	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10131	In hallway adjacent to R100L	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10132	In hallway adjacent to R100L	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10233	In hallway adjacent to R206	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW10234	In hallway adjacent to R206	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10235	In hallway adjacent to R206	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10219	In health room	Bubbler - Indoor	<1	Pass	N/A	Testing Complete
LW10218	In health room R160	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW10220	In health room R160C	Nurses Office Sink	3.9	Pass	N/A	Testing Complete
LW10127	In main office	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10128	In main office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10129	In main office	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10231	In media center workroom 2200A	Teacher's Lounge Sink	5.2	Fail	<1	Testing Complete
LW10215	In multipurpose room R181	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10217	In multipurpose room R181	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10223	In office 1102G	Teacher's Lounge Sink	3.8	Pass	N/A	Testing Complete
LW10224	In office 1102J	Teacher's Lounge Sink	3.9	Pass	N/A	Testing Complete
LW10136	In prep room R112A	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10139	In prep room R124	Teacher's Lounge Sink	1.2	Pass	N/A	Testing Complete
LW10214	In restaurant R179	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10240	In room 218	Teacher's Lounge Sink	1.5	Pass	N/A	Testing Complete
LW10221	In speech 1102P	Classroom Sink	2.9	Pass	N/A	Testing Complete
LW10222	In speech room 1102N	Classroom Sink	5.2	Fail	<1	Testing Complete
LW10134	In workroom R104	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10244	In workroom R226	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW10216	Inside multipurpose room R181	Bottle Filler	<1	Pass	N/A	Testing Complete



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

### **Executive Summary:**

#### **Rock Terrace School**

390 Martins Lane  
Rockville, MD 20850

Date of Test Report:	6/27/2018
Round of Testing:	Initial
# of Outlets Tested:	39
# of Outlets $\geq$ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	9.2

#### **Project Status**

**Initial testing complete:** All results less than 20 ppb.



June 27, 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 Terrace School  
390 Martins Lane  
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 Rock Terrace School, located at 390 Martins Lane, Rockville, MD 20850.

**Scope of Services:**

PSI conducted lead in water testing at Rock Terrace 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 39 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.**

Nand Kaushik, P.E.  
Department Manager, Environmental Services  
[Nand.Kaushik@psiusa.com](mailto: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 Terrace School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW11869		Kitchen		Faucet	1.3	Pass	Testing Complete
LW11870		Kitchen		Faucet	1.9	Pass	Testing Complete
LW11871		Hallway	Right Of 8	Cooler	<1.0	Pass	Testing Complete
LW11873	9	Classroom		Faucet	1.7	Pass	Testing Complete
LW11874	9	Classroom		Bubbler - Indoor	6.5	Pass	Testing Complete
LW11875	12	Classroom		Bubbler - Indoor	5.4	Pass	Testing Complete
LW11877		Hallway	Right Of 13	Cooler	3.5	Pass	Testing Complete
LW11878		Hallway	Right Of 13	Cooler	2.9	Pass	Testing Complete
LW11879	14	Classroom		Faucet	5.2	Pass	Testing Complete
LW11880	13	Classroom		Faucet	9.2	Pass	Testing Complete
LW11881		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
LW11882		Hallway	In Front Of Gym	Cooler	<1.0	Pass	Testing Complete
LW11883	5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11884	5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11884	5	Classroom		Faucet	<1.0	Pass	Testing Complete
LW11886	2	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW11887	1A	Classroom		Faucet	6.8	Pass	Testing Complete
LW11888	1A	Classroom		Faucet	4.8	Pass	Testing Complete
LW11889		Break Room	Next To Kitchen	Faucet	1.0	Pass	Testing Complete
M11457		Hallway	Next to IMC Instructional Materials Center	Cooler	1.7	Pass	Testing Complete
M11458		Media Center	IMC	Faucet	5.2	Pass	Testing Complete
M11464	11	Classroom		Faucet	5.4	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M11487		Health		Faucet	<1.0	Pass	Testing Complete
M11488	10	Classroom		Faucet	1.5	Pass	Testing Complete
M11495	12	Classroom		Faucet	2.1	Pass	Testing Complete
M11499		Cafeteria		Cooler	2.3	Pass	Testing Complete
M11500		Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M11501		Kitchen		Faucet	1.3	Pass	Testing Complete
M11503		Kitchen		Faucet	1.4	Pass	Testing Complete
M11504		Kitchen		Faucet	5.4	Pass	Testing Complete
M11515		Hallway	Right Of Rm 7	Cooler	2.6	Pass	Testing Complete
M11516		Hallway	Right Of Room 7	Cooler	2.3	Pass	Testing Complete
M11525	1	Break Room	Life Skills	Faucet	1.8	Pass	Testing Complete
M11527		Hallway	Next to CR 1 Life Skills 1 of 2 LTR	Cooler	3.4	Pass	Testing Complete
M11528		Hallway	Next to CR 1 Life Skills 2 of 2 LTR	Cooler	3.3	Pass	Testing Complete
M11529	2	Classroom		Faucet	1.3	Pass	Testing Complete
M11531	4	Classroom		Faucet	1.1	Pass	Testing Complete
M11538		Wood Shop		Cooler	<1.0	Pass	Testing Complete
M11541	1A	Classroom		Cooler	5.3	Pass	Testing Complete

\*ppb = parts per billion