Montgomery County Public Schools
Lead in Drinking Water Testing Report

Lakewood Elementary School
2534 Lindley Terrace
Rockville, MD 20850

Report Date: February 20th, 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	12/08/2021
# of Outlets Tested	48
# of Outlets ≥ 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 Lakewood ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW07287	In hallway next to gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07288	In classroom 177	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07289	In classroom 182	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07290	In classroom 186	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07291	In health room 105	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07292	In work room 114	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
LW07293	In work room 114	Ice Machine	<1	Pass	N/A	Testing Complete
LW07294	In hallway to left of 134	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07295	In hallway to left of 134	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07296	In kitchen 125	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW07297	In kitchen 125	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW07337	In hallway next to gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07338	In classroom 171	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07339	In classroom 163	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07342	In music 134	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07343	In classroom 241	Classroom Sink	1.2	Pass	N/A	Testing Complete
LW07344	In classroom 243	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07345	In classroom 244	Classroom Sink	1.8	Pass	N/A	Testing Complete
LW07346	In hallway right of 232	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07347	In hallway right of 232	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07348	In classroom 213	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07350	In classroom 237	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07351	In classroom 235	Classroom Sink	<1	Pass	N/A	Testing Complete
LW07352	In hallway between 216 and 214	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07353	In hallway between 216 and 214	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07354	In break room 141 staff lounge	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M41306	In office 156 by media center	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M41316	In health room 105	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M41326	In classroom 165	Classroom Sink	1.8	Pass	N/A	Testing Complete
M41327	In classroom 181	Classroom Sink	<1	Pass	N/A	Testing Complete

M41331	In classroom 168	Classroom Sink	<1	Pass	N/A	Testing Complete
M41333	In classroom 176	Classroom Sink	<1	Pass	N/A	Testing Complete
M41334	In classroom 174	Classroom Sink	<1	Pass	N/A	Testing Complete
M41341	In speech therapy 147	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M41359	In kitchen 125	Kitchen Sink	<1	Pass	N/A	Testing Complete
M41375	In classroom 247	Classroom Sink	1.8	Pass	N/A	Testing Complete
M41376	In classroom 246	Classroom Sink	3.0	Pass	N/A	Testing Complete
M41380	In classroom 234	Classroom Sink	<1	Pass	N/A	Testing Complete
M41381	In classroom 240	Classroom Sink	<1	Pass	N/A	Testing Complete
M41384	In classroom 232	Classroom Sink	<1	Pass	N/A	Testing Complete
M41385	In classroom 222	Classroom Sink	1.9	Pass	N/A	Testing Complete
M41387	In classroom 221	Classroom Sink	<1	Pass	N/A	Testing Complete
M41389	In classroom 220	Classroom Sink	<1	Pass	N/A	Testing Complete
M41390	In classroom 218	Classroom Sink	<1	Pass	N/A	Testing Complete
M41391	In classroom 217	Classroom Sink	<1	Pass	N/A	Testing Complete
M41397	In resource center 204	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete
M41398	In dual purpose room 202	Classroom Sink	<1	Pass	N/A	Testing Complete
M41399	In reading 152	Classroom Sink	1.3	Pass	N/A	Testing Complete

MONTGOMERY COUNTY PUBLIC SCHOOLS LEAD IN DRINKING WATER
POST-REMEDIATION FOLLOW-UP TESTING 2019

August 29, 2019

Executive Summary:
Lakewood Elementary School
2534 Lindley Terrace, Rockville, MD 20850

Round of Testing:	Post-Remediation Follow-up
Sample Date	01/25/2019
# of Outlets Tested:	1
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	<1.0

Project Status
Testing Complete: Post-remediation follow-up testing completed for following rooms:

Kitchen: Outlet (M41358) will be placed back into service

August 29, 2019

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 Post-remediation Follow-up Testing Service

Location: Lakewood Elementary School
2534 Lindley Terrace,
Rockville, MD 20850

Dear Mr. Mullikin:

Intertek-PSI Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of the post-remediation lead in water testing at Lakewood Elementary School, located at 2534 Lindley Terrace, Rockville, MD 20850.

Scope of Services:

One (1) drinking water outlet was remediated at Lakewood Elementary School due to initial lead levels that exceeded the lead action level of 5 parts per billion (ppb). Intertek-PSI conducted lead in water post-remediation follow-up testing in accordance with the Maryland Code of Regulations (COMAR) 26.16.07 - Lead in Drinking Water - Public and Nonpublic Schools.

Intertek-PSI visited the site on 01/24/2019 and 01/25/2019 to collect post-remediation follow-up sample from 1 drinking water outlet that had been replaced. 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:

The initial, flush and post-remediation follow-up sample results are highlighted in the summary table below:

Barcode ID	Room Number	Location	Notes	Equipment Type	Initial (ppb)	Flush (ppb)	Post-remediation follow-up (ppb)	Post-remediation follow-up Pass/Fail	Status
M41358	125	Kitchen		Bubbler-Indoor	27.7	15.5	<1.0	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service

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. The Environmental Protection Agency (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.

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,

INTERTEK-PSI

Nan Lin
Department Manager, Environmental Services
nan.lin@intertek.com

MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

May 10, 2018

Executive Summary:
Lakewood Elementary School
2534 Lindley Terrace
Rockville, MD 20850

Round of Testing:	Initial
# of Outlets Tested:	51
# of Outlets ≥ 20 ppb:	1
Low Value (ppb):	< 1.0
High Value (ppb):	27.7
Follow-Up Testing Required (Samples ≥ 20 ppb):	Kitchen (27.7 ppb)

Round of Testing:	Follow-Up – 30 sec draw
# of Outlets Tested:	1

Project Status
Testing Complete: Remediation Plan

Kitchen – Replace fixture (M41358), in addition to supply line and valve located under sink

May 10, 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: Lakewood Elementary School
2534 Lindley Terrace
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 Lakewood Elementary School, located at 2534 Lindley Terrace in Rockville, MD 20850.

Scope of Services:

PSI conducted lead in water testing at Lakewood 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 3/8/18 and 3/9/18 to collect samples from 51 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. One 30 second follow-up sample was collected on 4/19/18.

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 was one result of the initial lead in water analysis at or above 20 parts per billion (ppb) and subsequent follow up 30 second results are highlighted in the summary table below:

Barcode ID	Sample Location	Date Collected	Initial Sample Result (ppb)	Date Collected	30 Second Follow Up Sample Result (ppb)
M41358	Kitchen	3/9/18	27.7	4/19/18	<1.0

The initial lead in water sample results (03/09/2018) and 30 second follow up results (4/19/18) 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

Lakewood ES Water Test Summary Table

Contractor: Professional Services Industries, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Lakewood Elementary School (3/9/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW07287		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW07288	177	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07289	182	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07290	186	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07291	105	Health Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW07292	114	Work Room		Faucet	<1.0	Pass	Testing Complete
LW07293	114	Work Room		Icemaker	<1.0	Pass	Testing Complete
LW07294		Hallway	To Left Of Rm 134	Cooler	<1.0	Pass	Testing Complete
LW07295		Hallway	To Left Of Rm 134	Cooler	<1.0	Pass	Testing Complete
LW07296	125	Kitchen		Faucet	<1.0	Pass	Testing Complete
LW07297	125	Kitchen		Faucet	1.2	Pass	Testing Complete
LW07337		Hallway	Next To Gym	Cooler	<1.0	Pass	Testing Complete
LW07338	171	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07339	163	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07340		Hallway	Across From 186	Cooler	<1.0	Pass	Testing Complete
LW07341		Hallway	Across From 186	Cooler	<1.0	Pass	Testing Complete
LW07342	134	Music		Faucet	<1.0	Pass	Testing Complete
LW07343	241	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07344	243	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07345	244	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07346		Hallway	Right Of 232	Cooler	<1.0	Pass	Testing Complete
LW07347		Hallway	Right Of 232	Cooler	<1.0	Pass	Testing Complete
LW07348	213	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07350	237	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07351	235	Classroom		Faucet	<1.0	Pass	Testing Complete
LW07352		Hallway	Between Rms 216 And 214	Cooler	<1.0	Pass	Testing Complete
LW07353		Hallway	Between Rms 216 And 214	Cooler	<1.0	Pass	Testing Complete
LW07354	141	Break Room	Staff Lounge	Faucet	<1.0	Pass	Testing Complete
M41306	156	Office Media Center		Faucet	<1.0	Pass	Testing Complete
M41316	105	Health Room		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M41326	165	Classroom		Faucet	<1.0	Pass	Testing Complete
M41327	181	Classroom		Faucet	<1.0	Pass	Testing Complete
M41331	168	Classroom		Faucet	<1.0	Pass	Testing Complete
M41333	176	Classroom		Faucet	2.2	Pass	Testing Complete
M41334	174	Classroom		Faucet	<1.0	Pass	Testing Complete
M41341	147	Speech Therapy		Faucet	1.1	Pass	Testing Complete
M41358	125	Kitchen		Faucet	27.7	Fail	Follow Up Test Needed
M41359	125	Kitchen		Faucet	<1.0	Pass	Testing Complete
M41375	247	Classroom		Faucet	<1.0	Pass	Testing Complete
M41376	246	Classroom		Faucet	<1.0	Pass	Testing Complete
M41380	234	Classroom		Faucet	1.1	Pass	Testing Complete
M41381	240	Classroom		Faucet	<1.0	Pass	Testing Complete
M41384	232	Classroom		Faucet	<1.0	Pass	Testing Complete
M41385	222	Classroom		Faucet	<1.0	Pass	Testing Complete
M41387	221	Classroom		Faucet	<1.0	Pass	Testing Complete
M41389	220	Classroom		Faucet	<1.0	Pass	Testing Complete
M41390	218	Classroom		Faucet	<1.0	Pass	Testing Complete
M41391	217	Classroom		Faucet	<1.0	Pass	Testing Complete
M41397	204	Resource Center		Faucet	<1.0	Pass	Testing Complete
M41398	202	Dual Purpose Room		Faucet	1.0	Pass	Testing Complete
M41399	152	Reading		Faucet	<1.0	Pass	Testing Complete

*ppb = parts per billion

Contractor: Professional Services Industries, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Lakewood Elementary School (4/19/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2^{nd}) (PPB)	Initial draw (3^{rd}) (PPB)	30 Second Draw (PPB)	Status
M41358	125	Kitchen	Faucet	7.3	15.5	<1.0	Remediation required – replace fixture, in addition to supply line and valve located under sink

*ppb = parts per billion

Note: Fixture(s) with elevated test results were immediately removed from service. Subsequent 2nd and 3rd round testing was performed on these fixture(s) for further diagnostics for remediation. Because the fixture was shut off after the first test, the subsequent test results may not be representative of an in-use fixture because of stagnant water in the supply line and the operation of shut off valves prior to the tests. All fixtures with elevated test results are to be remediated. After remediation, post remediation testing will be conducted before the fixture is returned to service.