Montgomery County Public Schools
Lead in Drinking Water Testing Report

Cabin John Middle School
10701 Gainsborough Rd
Potomac, MD 20854

Report Date: June 26, 2023

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 State Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by Inspection Experts Inc is presented in the table below.

Sampling Date	4/28/23
# of Outlets Tested	39
# of Outlets ≥ 5 ppb	0

NEXT STEPS

If an initial sample exceeds the AL (5 ppb), the outlet will be shut-down within 24 hours, 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 outlets, food, cosmetics, exposure in the workplace 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 forlead.

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 Cabin John MS

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
LW07194	In all purpose room 1400 right of stage	Drinking Fountain	<1.0	Pass	Testing Complete
LW07195	In all purpose room 1400 right of stage	Drinking Fountain	<1.0	Pass	Testing Complete
LW07196	In hallway across from 1316	Drinking Fountain	<1.0	Pass	Testing Complete
M09392	In hallway across from CR 2225	Drinking Fountain	<1.0	Pass	Testing Complete
M09393	In hallway across from CR 2225	Drinking Fountain	<1.0	Pass	Testing Complete
M09398	In hallway across from CR 2115	Drinking Fountain	<1.0	Pass	Testing Complete
M09399	In hallway across from CR 2115	Drinking Fountain	<1.0	Pass	Testing Complete
M09409	In kitchen 1103B inside CR 1103	Kitchen Sink	<1.0	Pass	Testing Complete
M09411	In kitchen 1109B inside CR 1109	Kitchen Sink	<1.0	Pass	Testing Complete
M09414	In kitchen 1115B inside CR 1115 and 1119	Kitchen Sink	<1.0	Pass	Testing Complete
M09416	In hallway across from CR 1131	Drinking Fountain	<1.0	Pass	Testing Complete
M09417	In hallway across from CR 1131	Drinking Fountain	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
M09425	In break room 1331	Teachers Lounge Sink	1.1	Pass	Testing Complete
M09427	In hallway across from 1320 IMC	Drinking Fountain	<1.0	Pass	Testing Complete
M09431	In hallway next to 1309 GLR	Drinking Fountain	<1.0	Pass	Testing Complete
M09432	In hallway next to 1309 GLR	Drinking Fountain	<1.0	Pass	Testing Complete
M09438	In girls locker room 1309	Drinking Fountain	<1.0	Pass	Testing Complete
M09443	In boys locker room 1317	Drinking Fountain	<1.0	Pass	Testing Complete
M09447	In home economics 1301	Classroom Sink	1.0	Pass	Testing Complete
M09449	In home economics 1301	Classroom Sink	1.9	Pass	Testing Complete
M09460	In hallway across from CR 1409	Drinking Fountain	<1.0	Pass	Testing Complete
M09461	In hallway across from CR 1409	Drinking Fountain	<1.0	Pass	Testing Complete
M09464	In kitchen 1402	Kitchen Sink	2.0	Pass	Testing Complete
M09465	In kitchen 1402	Kitchen Sink	1.3	Pass	Testing Complete
M09466	In kitchen 1402	Kitchen Sink	<1.0	Pass	Testing Complete
M09467	In kitchen 1402	Kitchen Sink	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
M09468	In kitchen 1402	Kitchen Sink	<1.0	Pass	Testing Complete
M09469	In kitchen 1402	Kitchen Sink	<1.0	Pass	Testing Complete
M09470	In kitchen 1402	Ice Machine	<1.0	Pass	Testing Complete
M09471	In kitchen 1402	Kitchen Sink	<1.0	Pass	Testing Complete
M09472	In kitchen 1402	Kitchen Sink	<1.0	Pass	Testing Complete
M09473	In kitchen 1402	Kitchen Sink	<1.0	Pass	Testing Complete
M09478	In exam 1006D by health	Nurses Office Sink	1.7	Pass	Testing Complete
M09484	In hallway across from CR 1225	Drinking Fountain	<1.0	Pass	Testing Complete
M09485	In hallway across from CR 1225	Drinking Fountain	<1.0	Pass	Testing Complete
LW12680	In hallway next from CR 1309	Drinking Fountain	<1.0	Pass	Testing Complete
LW12681	Purpose Room 1400	Drinking Fountain	<1.0	Pass	Testing Complete
LW12682	Home Economic CR-2122	Home Economics Sink	<1.0	Pass	Testing Complete
M09448	In home economics 1301	Home Economics Sink	1.7	Pass	Testing Complete

Montgomery County Public Schools
Lead in Drinking Water Testing Report

Cabin John Middle School
10701 Gainsborough Road
Potomac, MD 20854

Report Date: March 30th, 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	3/11/2020
# of Outlets Tested	45
# of Outlets ≥ 5 ppb	1

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 Cabin John MS

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW07194	In all purpose room 1400 right of stage	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07195	In all purpose room 1400 right of stage	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW07196	In hallway across from 1316	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09392	In hallway across from CR 2225	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09393	In hallway across from CR 2225	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09395	In team 2216	Classroom Sink	1.6	Pass	N/A	Testing Complete
M09397	In conference 2114	Classroom Sink	3.7	Pass	N/A	Testing Complete
M09398	In hallway across from CR 2115	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09399	In hallway across from CR 2115	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09409	In kitchen 1103B inside CR 1103	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09411	In kitchen 1109B inside CR 1109	Kitchen Sink	1.1	Pass	N/A	Testing Complete
M09412	In conference 1104	Classroom Sink	1.6	Pass	N/A	Testing Complete
M09414	In kitchen 1115B inside CR 1115 and 1119	Kitchen Sink	1.3	Pass	N/A	Testing Complete
M09416	In hallway across from CR 1131	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09417	In hallway across from CR 1131	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09425	In break room 1331	Teachers Lounge Sink	1.1	Pass	N/A	Testing Complete
M09427	In hallway across from 1320 IMC	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09428	In work room 1320B by media center ie. inside IMC	Classroom Sink	1.9	Pass	N/A	Testing Complete
M09431	In hallway next to 1309 GLR	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09432	In hallway next to 1309 GLR	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09438	In girls locker room 1309	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09443	In boys locker room 1317	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09447	In home economics 1301 by home economics	Classroom Sink	1.3	Pass	N/A	Testing Complete
M09449	In home economics 1301 by home economics	Classroom Sink	1.6	Pass	N/A	Testing Complete

M09452	In music 1409	Classroom Sink	1.3	Pass	N/A	Testing Complete
M09460	In hallway across from CR 1409	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09461	In hallway across from CR 1409	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09462	In Band 1415	Classroom Sink	<1	Pass	N/A	Testing Complete
M09464	In kitchen 1402	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09465	In kitchen 1402	Kitchen Sink	1.2	Pass	N/A	Testing Complete
M09466	In kitchen 1402	Kitchen Sink	1.3	Pass	N/A	Testing Complete
M09467	In kitchen 1402	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09468	In kitchen 1402	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09469	In kitchen 1402	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09470	In kitchen 1402	Ice Machine	<1	Pass	N/A	Testing Complete
M09471	In kitchen 1402	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09472	In kitchen 1402	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09473	In kitchen 1402	Kitchen Sink	<1	Pass	N/A	Testing Complete
M09478	In exam 1006D by health ie. inside 1006 health	Nurses Office Sink	1.9	Pass	N/A	Testing Complete
M09481	In work room 1000C by admin ie. inside admin	Classroom Sink	1.2	Pass	N/A	Testing Complete
M09483	In conference 1216 across from CR 1213	Classroom Sink	1.1	Pass	N/A	Testing Complete
M09484	In hallway across from CR 1225	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09485	In hallway across from CR 1225	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09640	In Wood shop 1323	Classroom Sink	<1	Pass	N/A	Testing Complete
M09451	In classroom 1409	Classroom Sink	8.4	Fail	NC	Remediation Action Plan

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:
Cabin John Middle School

10701 Gainsborough Road,
Potomac, MD 20854

Date of Test Report:	05/10/2018
Round of Testing:	Initial
# of Outlets Tested:	47
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	< 1.0
High Value (ppb):	10.3

Project Status

Initial testing complete: All results less than 20 ppb.

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: Cabin John Middle School
10701 Gainsborough Road,
Potomac, MD 20854

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 Cabin John Middle School, located at 10701 Gainsborough Road, Potomac, MD 20854.

Scope of Services:

PSI conducted lead in water testing at Cabin John Middle 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 03/13/18, 03/14/18 and 03/15/18 to collect samples from 47 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 dates 03/14/18 and 03/15/18 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 Cabin John Middle School

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
LW07194	1400	All Purpose Room	Right of Stage	Cooler	<1.0	Pass	Testing Complete
LW07195	1400	All Purpose Room	Right of Stage	Cooler	<1.0	Pass	Testing Complete
LW07196		Hallway	Across From 1316	Cooler	<1.0	Pass	Testing Complete
M09392		Hallway	Across from CR 2225	Cooler	<1.0	Pass	Testing Complete
M09393		Hallway	Across from CR 2225	Cooler	<1.0	Pass	Testing Complete
M09398		Hallway	Across from CR 2115	Cooler	<1.0	Pass	Testing Complete
M09399		Hallway	Across from CR 2115	Cooler	<1.0	Pass	Testing Complete
M09409	1103B	Kitchen	inside CR 1103	Faucet	<1.0	Pass	Testing Complete
M09414	1115B	Kitchen	inside CR 1115 and 1119	Faucet	<1.0	Pass	Testing Complete
M09416		Hallway	Across from CR 1131	Cooler	<1.0	Pass	Testing Complete
M09417		Hallway	Across from CR 1131	Cooler	<1.0	Pass	Testing Complete
M09427		Hallway	Across from 1320 IMC	Cooler	<1.0	Pass	Testing Complete
M09431		Hallway	Next to 1309 Girls Locker Room	Cooler	<1.0	Pass	Testing Complete
M09432		Hallway	Next to 1309 Girls Locker Room	Cooler	<1.0	Pass	Testing Complete
M09438	1309	Girls Locker Room		Cooler	<1.0	Pass	Testing Complete
M09443	1317	Boys Locker Room		Cooler	<1.0	Pass	Testing Complete
M09460		Hallway	Across from CR 1409	Cooler	<1.0	Pass	Testing Complete
M09461		Hallway	Across from CR 1409	Cooler	<1.0	Pass	Testing Complete
M09468	1402	Kitchen		Faucet	<1.0	Pass	Testing Complete
M09469	1402	Kitchen		Faucet	<1.0	Pass	Testing Complete
M09470	1402	Kitchen		Ice Maker	<1.0	Pass	Testing Complete
M09471	1402	Kitchen		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room Number	Location	Location Notes	Equipment Type	Result (PPB)*	Pass/Fail	Status
M09473	1402	Kitchen		Faucet	<1.0	Pass	Testing Complete
M09484		Hallway	Across from CR 1225	Cooler	<1.0	Pass	Testing Complete
M09485		Hallway	Across from CR 1225	Cooler	<1.0	Pass	Testing Complete
M09477	1006	Health Room		Faucet	10.3	Pass	Testing Complete
M09451	1409	Music		Faucet	9.9	Pass	Testing Complete
M09448	1301	Home Economics		Faucet	7.2	Pass	Testing Complete
M09397	2114	Conference		Faucet	3.3	Pass	Testing Complete
M09483	1216	Conference	Across from CR 1213	Faucet	2.4	Pass	Testing Complete
M09428	1320B	Work Room Media Center	Inside IMC	Faucet	2.0	Pass	Testing Complete
M09447	1301	Home Economics		Faucet	2.0	Pass	Testing Complete
M09452	1409	Music		Faucet	2.0	Pass	Testing Complete
M09425	1331	Break Room		Faucet	1.9	Pass	Testing Complete
M09481	1000C	Work Room Admin	Inside Admin	Faucet	1.8	Pass	Testing Complete
M09412	1104	Conference		Faucet	1.7	Pass	Testing Complete
M09464	1402	Kitchen		Faucet	1.6	Pass	Testing Complete
M09465	1402	Kitchen		Faucet	1.5	Pass	Testing Complete
M09395	2216	Team Rm		Faucet	1.4	Pass	Testing Complete
M09449	1301	Home Economics		Faucet	1.3	Pass	Testing Complete
M09466	1402	Kitchen		Faucet	1.3	Pass	Testing Complete
M09478	1006D	Exam Health	Inside 1006 Health	Faucet	1.3	Pass	Testing Complete
M09467	1402	Kitchen		Faucet	1.2	Pass	Testing Complete
M09640	1323	Wood Shop		Faucet	1.2	Pass	Testing Complete
M09462	1415	Band		Faucet	1.1	Pass	Testing Complete
M09411	1109B	Kitchen	Inside CR 1109	Faucet	1.0	Pass	Testing Complete
M09472	1402	Kitchen		Faucet	1.0	Pass	Testing Complete

*ppb = parts per billion