

Montgomery County Public Schools Lead in Drinking Water Testing Report

Fairland Elementary School
14315 Fairdale Rd.
Silver Spring, MD 20905

Report Date: May 22nd, 2024

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	2/23/2024
# of Outlets Tested	51
# of Outlets \geq 5 ppb	5

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 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 Fairland ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW01542	In classroom 4	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW01546	In special ed 7	Drinking Water fountain - Bubbler Style	2.6	Pass	Testing Complete
LW01600	In classroom 12	Drinking Water fountain - Bubbler Style	9.2	Fail	Remediation Action Plan
LW01601	In break room 20	Faucet, Cold	<1.0	Pass	Testing Complete
LW01607	In classroom 17	Drinking Water fountain - Bubbler Style	1.5	Pass	Testing Complete
LW01603	In classroom 22	Drinking Water Fountain - Cooler/Chiller Style	3.7	Pass	Testing Complete
LW11652	In hallway next to APR	Bottle Filler	<1.0	Pass	Testing Complete
LW01608	In hallway across from CR 14	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW01609	In hallway next to Apr	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW11657	In hallway Across from CR 30	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW11653	In hallway Across from CR 30	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW01610	In hallway next to Apr	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW01611	In kitchen by all purpose room	Faucet, Cold	<1.0	Pass	Testing Complete
LW01613	In classroom 208	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW01614	In classroom 201	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW01616	In classroom 24	Drinking Water fountain - Bubblers Style	1.3	Pass	Testing Complete
LW01618	In classroom 25	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW01620	In classroom 26	Drinking Water fountain - Bubblers Style	1.1	Pass	Testing Complete
LW01624	In classroom 27	Drinking Water fountain - Bubblers Style	2.2	Pass	Testing Complete
LW01634	In material prep area media office	Faucet, Cold	<1.0	Pass	Testing Complete
LW01636	In classroom 10	Drinking Water fountain - Bubblers Style	2.0	Pass	Testing Complete
LW01637	In classroom 11	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW01644	In work room by administration	Faucet, Cold	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW01645	In health room by administration	Faucet, Cold	<1.0	Pass	Testing Complete
LW01649	In classroom 2	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW01651	In classroom 3 head start	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW01652	In classroom 30	Drinking Water fountain - Bubbler Style	5.1	Fail	Remediation Action Plan
LW01653	In hallway across from CR 30	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW07349	In special ed 5	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M09941	In art 111 by art	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW01622	In classroom 29	Drinking Water fountain - Bubbler Style	10.5	Fail	Remediation Action Plan
M09958	In classroom 211	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M09945	In music 109	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M09947	In Inst music 108	Drinking Water fountain - Bubbler Style	1.0	Pass	Testing Complete
M09949	In classroom 103	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M09951	In classroom 102	Drinking Water fountain - Bubbler Style	1.3	Pass	Testing Complete
M09953	In classroom 101	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M09955	In hallway next to CR 101	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M09962	In classroom 210	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M09964	In ESOL 204	Drinking Water fountain - Bubbler Style	1.5	Pass	Testing Complete
M09966	In classroom 209	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M09974	In hallway across from CR 208	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M09975	In hallway across from CR 208	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M09980	In classroom 203	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
M43197	In hallway across CR 7	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
M43205	In classroom 6	Drinking Water fountain - Bubbler Style	5.3	Fail	Remediation Action Plan
M43228	In kitchen by all purpose room	Faucet, Cold	1.7	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
M43230	In kitchen	Faucet, Cold	<1.0	Pass	Testing Complete
M43229	In kitchen by all purpose room	Faucet, Cold	9.6	Fail	Remediation Action Plan
M43241	In classroom 19	Drinking Water fountain - Bubbler Style	4.8	Pass	Testing Complete
M43248	In hallway across CR 14	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete

Montgomery County Public Schools Lead in Drinking Water Testing Report

Fairland Elementary School
14315 Fairdale Drive
Silver Spring, MD 20905

Report Date: February 23rd, 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	11/02/2021
# of Outlets Tested	71
# of Outlets \geq 5 ppb	6

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 Fairland ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
M09941	In art 111 by art	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01601	In break room 20	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
M43218	In classroom 1	Classroom Sink	<1	Pass	N/A	Testing Complete
LW01636	In classroom 10	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW01635	In classroom 10	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
M09953	In classroom 101	Classroom Combination Drinking Fountain	2.2	Pass	N/A	Testing Complete
M09951	In classroom 102	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09950	In classroom 102	Classroom Combination Sink	4.9	Pass	N/A	Testing Complete
M09949	In classroom 103	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09948	In classroom 103	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
LW01637	In classroom 11	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW01638	In classroom 12	Classroom Combination Sink	1.1	Pass	N/A	Testing Complete
LW01600	In classroom 12	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
M43255	In classroom 14 ed	Classroom Combination Drinking Fountain	3.4	Pass	N/A	Testing Complete
LW01607	In classroom 17	Classroom Combination Drinking Fountain	2.6	Pass	N/A	Testing Complete
LW01606	In classroom 17 ed	Classroom Combination Sink	1.6	Pass	N/A	Testing Complete
M43242	In classroom 18	Classroom Combination Sink	2.2	Pass	N/A	Testing Complete
LW01605	In classroom 19	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
M43241	In classroom 19	Classroom Combination Drinking Fountain	3.0	Pass	N/A	Testing Complete
M43214	In classroom 2	Classroom Sink	1.7	Pass	N/A	Testing Complete
LW01649	In classroom 2	Classroom Combination Drinking Fountain	4.8	Pass	N/A	Testing Complete
LW01614	In classroom 201	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09980	In classroom 203	Classroom Combination Drinking Fountain	2.9	Pass	N/A	Testing Complete
M09963	In classroom 204	Classroom Combination Sink	6.9	Fail	Device Removed	Testing Complete
M09959	In classroom 205 by ESOL	Classroom Combination Sink	4.6	Pass	N/A	Testing Complete
LW01613	In classroom 208	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09967	In classroom 208	Classroom Combination Sink	6.1	Fail	Device Removed	Testing Complete
M09966	In classroom 209	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M43238	In classroom 21	Classroom Combination Sink	2.1	Pass	N/A	Testing Complete
M09962	In classroom 210	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

M09957	In classroom 211	Classroom Combination Sink	3.6	Pass	N/A	Testing Complete
LW01602	In classroom 22	Classroom Combination Sink	3.1	Pass	N/A	Testing Complete
LW01616	In classroom 24	Classroom Combination Drinking Fountain	4.3	Pass	N/A	Testing Complete
LW01618	In classroom 25	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01620	In classroom 26	Classroom Combination Drinking Fountain	3.2	Pass	N/A	Testing Complete
LW01624	In classroom 27	Classroom Combination Drinking Fountain	1.8	Pass	N/A	Testing Complete
LW01623	In classroom 27	Classroom Combination Sink	3.6	Pass	N/A	Testing Complete
LW01651	In classroom 3 head start	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01650	In classroom 3 head start	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
LW01652	In classroom 30	Classroom Combination Drinking Fountain	4.6	Pass	N/A	Testing Complete
M43172	In classroom 31	Classroom Combination Sink	4.3	Pass	N/A	Testing Complete
LW01542	In classroom 4	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01543	In classroom 4	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
M43205	In classroom 6	Classroom Combination Drinking Fountain	3.9	Pass	N/A	Testing Complete
M43204	In classroom 6	Classroom Combination Sink	4.6	Pass	N/A	Testing Complete
M43203	In classroom 6	Classroom Sink	52.3	Fail	<1	Testing Complete
M09964	In ESOL 204	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M43248	In hallway across CR 14	Drinking Fountain	<1	Pass	N/A	Testing Complete
M43197	In hallway across CR 7	Drinking Fountain	<1	Pass	N/A	Testing Complete
M43198	In hallway across CR 7	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01608	In hallway across from CR 14	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09974	In hallway across from CR 208	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09975	In hallway across from CR 208	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01653	In hallway across from CR 30	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01609	In hallway next to Apr	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01610	In hallway next to Apr	Drinking Fountain	<1	Pass	N/A	Testing Complete
M09955	In hallway next to CR 101	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01645	In health room by administration	Nurses Office Sink	<1	Pass	N/A	Testing Complete
M09947	In Inst music 108	Classroom Combination Drinking Fountain	5.4	Fail	Device Removed	Testing Complete
LW01611	In kitchen by all purpose room	Kitchen Sink	<1	Pass	N/A	Testing Complete
M43228	In kitchen by all purpose room	Kitchen Sink	3.8	Pass	N/A	Testing Complete
M43229	In kitchen by all purpose room	Kitchen Sink	7.2	Fail	<1	Testing Complete
LW01634	In material prep area media office	Teachers Lounge Sink	3.5	Pass	N/A	Testing Complete

M09945	In music 109	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
M09946	In music room 108	Classroom Combination Sink	7.6	Fail	Device Removed	Testing Complete
LW07349	In special ed 5	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW01547	In special ed 5	Classroom Combination Sink	2.0	Pass	N/A	Testing Complete
LW01544	In special ed 7	Classroom Sink	2.4	Pass	N/A	Testing Complete
LW01546	In special ed 7	Classroom Combination Drinking Fountain	2.5	Pass	N/A	Testing Complete
LW01545	In special ed 7	Classroom Combination Sink	2.6	Pass	N/A	Testing Complete
LW01644	In work room by administration	Teachers Lounge Sink	2.9	Pass	N/A	Testing Complete



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

November 13, 2019

Executive Summary:
Fairland Elementary School
14315 Fairdale Road,
Silver Spring, MD 20905

Round of Testing:	Post-Remediation Follow-up
Sample Date	02/01/2019
# of Outlets Tested:	4
# of Outlets \geq 5 ppb:	2
Low Value (ppb):	4.5
High Value (ppb):	6.4

Project Status

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

- Classroom 19 – Outlet (M43241) will be placed back in service.
- Classroom 6 – Outlet (M43203) will be placed back in service.
- Instrumental Music (108) – Outlet (M09946) will have signage affixed.
- Classroom ESOL (205) – Outlet (M09959) will have signage affixed.



November 13, 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: Fairland Elementary School
14315 Fairdale Road,
Silver Spring, MD 20905

Dear Mr. Mullikin:

Intertek-PSI, Inc. is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of post-remediation lead in water testing at Fairland Elementary School, located at 14315 Fairdale Road, Silver Spring, MD 20905.

Scope of Services:

Four (4) drinking water outlets were remediated at Fairland Elementary School due to initial 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 02/01/2019 to collect post-remediation follow-up samples from 4 of the outlets that have 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 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
M43241	19	Classroom		Bubbler - Indoor	47.0	3.2	4.6	Pass	Post-remediation follow-up testing complete. Outlet will be placed back in service
M43203	6	Classroom		Faucet	56.0	<1.0	4.5	Pass	Post-remediation follow-up testing complete. Outlet will be placed back in service
M09946	108	Inst. Music		Faucet	20.3	<1.0	6.4	Fail	Post-remediation follow-up testing complete. Outlet will have signage affixed
M09959	205	Classroom ESOL		Faucet	42.2	<1.0	6.4	Fail	Post-remediation follow-up testing complete. Outlet will have signage affixed

*ppb = parts per billion

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.

Nan Lin
Department Manager, Environmental Services



MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

May 25, 2018

Executive Summary:
Fairland Elementary School
14315 Fairdale Road
Silver Spring, MD 20905

Round of Testing:	Initial
# of Outlets Tested:	96
# of Outlets \geq 20 ppb:	4
Low Value (ppb):	< 1.0
High Value (ppb):	56.0
Follow-Up Testing Required (Samples \geq 20 ppb):	Room 108 (20.3 ppb) Room 205 (42.2 ppb) Room 6 (56.0 ppb) Room 19 (47.0 ppb)

Round of Testing:	Follow-Up – 30 sec draw
# of Outlets Tested:	4

Project Status **Testing Complete: Remediation Plan**

Music Room 108– Replace fixture (M09946), in addition to supply line and valve located under sink
ESOL Classroom 205– Replace fixture (M09959), in addition to supply line and valve located under sink
Classroom 6– Replace fixture (M43203), in addition to supply line and valve located under sink
Classroom 19– Replace fixture (M43241), in addition to supply line and valve located under sink



May 25, 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: Fairland Elementary School
14315 Fairdale Road
Silver Spring, MD 20905

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 Fairland Elementary School, located at 14315 Fairdale Road in Silver Spring, MD 20905.

Scope of Services:

PSI conducted lead in water testing at Fairland 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 4/3/18 and 4/4/18 to collect samples from 96 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. Four 30 second follow-up samples were collected on 5/8/18.

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 were four results 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)
M09946	Instrumental Music 108	4/4/18	20.3	5/8/18	<1.0
M09959	ESOL Classroom 205	4/4/18	42.2	5/8/18	<1.0
M43203	Classroom 6	4/4/18	56.0	5/8/18	<1.0
M43241	Classroom 19	4/4/18	47.0	5/8/18	3.2

The initial lead in water sample results (4/4/18) and 30 second follow up results (5/8/18) 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

Fairland ES Water Test Summary Table

Contractor: Professional Services Industries, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Fairland Elementary School (4/4/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW01542	4	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01543	4	Classroom		Faucet	1.2	Pass	Testing Complete
LW01544	7	Special Ed		Faucet	3.2	Pass	Testing Complete
LW01545	7	Special Ed		Faucet	2.0	Pass	Testing Complete
LW01546	7	Special Ed		Bubbler - Indoor	3.2	Pass	Testing Complete
LW01547	5	Special Ed		Faucet	4.5	Pass	Testing Complete
LW01600	12	Classroom		Bubbler - Indoor	2.9	Pass	Testing Complete
LW01601	20	Break Room		Faucet	<1.0	Pass	Testing Complete
LW01602	22	Classroom		Faucet	3.0	Pass	Testing Complete
LW01603	22	Classroom		Bubbler - Indoor	9.7	Pass	Testing Complete
LW01604	21	Classroom		Bubbler - Indoor	2.2	Pass	Testing Complete
LW01605	19	Classroom		Faucet	4.2	Pass	Testing Complete
LW01606	17	Classroom		Faucet	1.5	Pass	Testing Complete
LW01607	17	Classroom		Bubbler - Indoor	1.5	Pass	Testing Complete
LW01608		Hallway	Across from CR 14	Cooler	<1.0	Pass	Testing Complete
LW01609		Hallway	Next to APR	Cooler	<1.0	Pass	Testing Complete
LW01610		Hallway	Next to APR	Cooler	<1.0	Pass	Testing Complete
LW01611		Kitchen All Purpose Room		Faucet	<1.0	Pass	Testing Complete
LW01612	209	Classroom		Faucet	5.1	Pass	Testing Complete
LW01613	208	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01614	201	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01615	24	Classroom		Faucet	1.5	Pass	Testing Complete
LW01616	24	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW01617	25	Classroom		Faucet	3.4	Pass	Testing Complete
LW01619	26	Classroom		Faucet	5.1	Pass	Testing Complete
LW01620	26	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
LW01621	29	Classroom		Faucet	2.2	Pass	Testing Complete
LW01622	29	Classroom		Bubbler - Indoor	12.3	Pass	Testing Complete
LW01623	27	Classroom		Faucet	2.5	Pass	Testing Complete
LW01624	27	Classroom		Bubbler - Indoor	2.1	Pass	Testing Complete
LW01625	30	Classroom		Faucet	2.9	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW01634		Material Prep Area	Media Office	Faucet	1.3	Pass	Testing Complete
LW01635	10	Classroom		Faucet	2.5	Pass	Testing Complete
LW01636	10	Classroom		Bubbler - Indoor	1.3	Pass	Testing Complete
LW01637	11	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW01638	12	Classroom		Faucet	1.2	Pass	Testing Complete
LW01644		Work Room Administration		Faucet	2.4	Pass	Testing Complete
LW01645		Health Room Administration		Faucet	<1.0	Pass	Testing Complete
LW01646	1	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01648	2	Classroom		Faucet	<1.0	Pass	Testing Complete
LW01649	2	Classroom		Bubbler - Indoor	2.2	Pass	Testing Complete
LW01650	3	Classroom	Head Start	Faucet	<1.0	Pass	Testing Complete
LW01651	3	Classroom	Head Start	Bubbler - Indoor	<1.0	Pass	Testing Complete
LW01652	30	Classroom		Bubbler - Indoor	3.1	Pass	Testing Complete
LW01653		Hallway	Across from CR 30	Cooler	<1.0	Pass	Testing Complete
LW07349	5	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09940	111	Art		Faucet	1.8	Pass	Testing Complete
M09941	111	Art		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09943	110	Classroom	Dual Purpose Room of Music	Faucet	3.8	Pass	Testing Complete
M09944	109	Music		Faucet	9.0	Pass	Testing Complete
M09945	109	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09946	108	Inst Music		Faucet	20.3	Fail	Follow-Up Testing Needed
M09947	108	Inst Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09948	103	Classroom		Faucet	4.3	Pass	Testing Complete
M09949	103	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09950	102	Classroom		Faucet	2.0	Pass	Testing Complete
M09951	102	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09952	101	Classroom		Faucet	5.4	Pass	Testing Complete
M09953	101	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09954		Hallway	Next to CR 101	Cooler	<1.0	Pass	Testing Complete
M09955		Hallway	Next to CR 101	Cooler	<1.0	Pass	Testing Complete
M09957	211	Classroom		Faucet	<1.0	Pass	Testing Complete
M09958	211	Classroom		Bubbler - Indoor	6.8	Pass	Testing Complete
M09959	205	Classroom ESOL		Faucet	42.2	Fail	Follow-Up Testing Needed
M09960	205	Classroom ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09961	210	Classroom		Faucet	5.2	Pass	Testing Complete
M09962	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09963	204	ESOL		Faucet	8.5	Pass	Testing Complete
M09964	204	ESOL		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
M09966	209	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09967	208	Classroom		Faucet	2.3	Pass	Testing Complete
M09974		Hallway	Across from CR 208	Cooler	<1.0	Pass	Testing Complete
M09975		Hallway	Across from CR 208	Cooler	<1.0	Pass	Testing Complete
M09979	203	Classroom		Faucet	10.8	Pass	Testing Complete
M09980	203	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09981	202	Classroom		Faucet	4.9	Pass	Testing Complete
M09982	202	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09983	201	Classroom		Faucet	8.4	Pass	Testing Complete
M26361	13	Classroom		Faucet	9.6	Pass	Testing Complete
M43172	31	Office		Faucet	4.4	Pass	Testing Complete
M43193	11	Classroom		Faucet	<1.0	Pass	Testing Complete
M43197		Hallway	Across CR 7	Cooler	<1.0	Pass	Testing Complete
M43198		Hallway	Across CR 7	Cooler	<1.0	Pass	Testing Complete
M43203	6	Classroom		Faucet	56.0	Fail	Follow-Up Testing Needed
M43204	6	Classroom		Faucet	2.8	Pass	Testing Complete
M43214	2	Classroom		Faucet	6.8	Pass	Testing Complete
M43218	1	Classroom		Faucet	6.5	Pass	Testing Complete
M43228		Kitchen All Purpose Room		Faucet	1.4	Pass	Testing Complete
M43229		Kitchen All Purpose Room		Faucet	3.0	Pass	Testing Complete
M43230		Kitchen All Purpose Room		Faucet	8.4	Pass	Testing Complete
M43238	21	Classroom		Faucet	1.4	Pass	Testing Complete
M43241	19	Classroom		Bubbler - Indoor	47.0	Fail	Follow-Up Testing Needed
M43242	18	Classroom		Faucet	<1.0	Pass	Testing Complete
M43243	18	Classroom		Bubbler - Indoor	2.6	Pass	Testing Complete
M43254	14	Classroom		Faucet	6.1	Pass	Testing Complete
M43255	14	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete

*ppb = parts per billion

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

Follow Up Sample Results for Fairland Elementary School (5/8/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 nd) (PPB)	30 Second Draw (PPB)	Status
M09946	108	Inst. Music	Faucet	13.0	<1.0	Remediation required – replace fixture, in addition to supply line and valve located under sink
M09959	205	ESOL Classroom	Faucet	4.6	<1.0	Remediation required – replace fixture, in addition to supply line and valve located under sink
M43203	6	Classroom	Faucet	93.0	<1.0	Remediation required – replace fixture, in addition to supply line and valve located under sink
M43241	19	Classroom	Bubbler- Indoor	6.0	3.2	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 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.