

# Montgomery County Public Schools Lead in Drinking Water Testing Report

Maryvale Elementary School  
1010 First St.  
Rockville, MD 20850

Report Date: May 22<sup>nd</sup>, 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	3/19/2024
# of Outlets Tested	66
# of Outlets $\geq$ 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 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 Maryvale ES

Outlet Barcode	Outlet Location	Outlet Type	Initial Results (ppb)	Pass/Fail	Status
LW11236	In health room 1000N	Faucet, Cold	<1.0	Pass	Testing Complete
LW11234	In classroom 1005	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11235	In work room 1000k	Faucet, Cold	<1.0	Pass	Testing Complete
LW10736	In classroom 1013	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW10734	In classroom 1017	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11232	In media center 1002	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW10725	In kitchen	Faucet, Cold	<1.0	Pass	Testing Complete
LW10726	In kitchen	Faucet, Cold	<1.0	Pass	Testing Complete
LW10727	In kitchen	Faucet, Cold	<1.0	Pass	Testing Complete
LW10728	In kitchen	Faucet, Cold	<1.0	Pass	Testing Complete
LW10729	In kitchen	Faucet, Cold	<1.0	Pass	Testing Complete

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initial Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
LW10697	In classroom 1029	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10692	In classroom 1012	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10696	In classroom 1016	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10694	In classroom 1035	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10690	In classroom 1033	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10683	In gym 1020	Bottle Refill Dispenser/Water Refill Station	<1.0	Pass	Testing Complete
LW10686	In hallway adjacent to room 1018	Bottle Refill Dispenser/Water Refill Station	<1.0	Pass	Testing Complete
LW10681	In classroom 1053	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10680	In classroom 1022	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10675	In classroom 1028	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10678	In classroom 1057	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10673	In classroom 1059	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initial Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
LW10763	In classroom 1061	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10761	In classroom 1030	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10757	In hallway adjacent to stair 3	Bottle Refill Dispenser/Water Refill Station	<1.0	Pass	Testing Complete
LW10755	In classroom 1034	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10754	In classroom 1038	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10668	In classroom 1040	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10667	In classroom 1044	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10665	In classroom 1046	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10721	In hallway adjacent to room 2001	Bottle Refill Dispenser/Water Refill Station	<1.0	Pass	Testing Complete
LW10720	In classroom 2007	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10718	In classroom 2011	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10716	In classroom 2013	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initial Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
LW10714	In privacy room 2091B	Faucet, Cold	1.2	Pass	Testing Complete
LW10713	In staff lounge 2091	Faucet, Cold	<1.0	Pass	Testing Complete
LW11088	In classroom 2031	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11087	In classroom 2035	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11085	In classroom 2037	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11083	In classroom 2053	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11077	In classroom 2057	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11076	In classroom 2034	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11255	In classroom 2036	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11254	In classroom 2059	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11252	In classroom 2040	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11249	In classroom 2065	Drinking Water fountain - Bubblers Style	4.9	Pass	Testing Complete

<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initial Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
LW11247	In classroom 2048	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11246	In classroom 2052	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11243	In classroom 2054	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11240	In classroom 2075	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11242	In classroom 2058	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW11237	In classroom 2079	Drinking Water fountain - Bubblers Style	<1.0	Pass	Testing Complete
LW10684	In gym	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW10758	In hallway adjacent to stair 3	Bottle Refill Dispenser/Water Refill Station	<1.0	Pass	Testing Complete
LW10687	In hallway adjacent to room 1018	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW10731	In hallway adjacent to room 1021	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW11080	In hallway adjacent to room 2030	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW10759	In hallway adjacent to stair 3	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete



<b>Outlet Barcode</b>	<b>Outlet Location</b>	<b>Outlet Type</b>	<b>Initial Results (ppb)</b>	<b>Pass/Fail</b>	<b>Status</b>
LW10685	In gym 1020	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW10732	In hallway adjacent to room 1021	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW11081	In hallway adjacent to room 2030	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW10688	In hallway adjacent to room 1018	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW10723	In hallway adjacent to room 2001	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete
LW10671	In classroom 1071	Drinking Water fountain - Bubbler Style	<1.0	Pass	Testing Complete
LW10722	In hallway adjacent to room 2001	Drinking Water Fountain - Cooler/Chiller Style	<1.0	Pass	Testing Complete

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Report Date: March 22<sup>nd</sup>, 2022

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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	11/18/2021
# of Outlets Tested	111
# of Outlets $\geq$ 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. No additional sampling or remedial actions are required for schools where all initial samples are below the AL.

## HEALTH EFFECTS OF LEAD

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## **SOURCES OF HUMAN EXPOSURE TO LEAD**

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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**

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**Attachment(s)** A – Lead in Water Sample Results Table

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**Lead in Water Sample Results Table**

## Sampling Results for Maryvale ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW11234	In classroom 1005	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11233	In classroom 1005	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10692	In classroom 1012	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10691	In classroom 1012	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10736	In classroom 1013	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10735	In classroom 1013	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10696	In classroom 1016	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10695	In classroom 1016	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10734	In classroom 1017	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10733	In classroom 1017	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10679	In classroom 1022	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10680	In classroom 1022	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10675	In classroom 1028	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10676	In classroom 1028	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10760	In classroom 1028	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10697	In classroom 1029	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10698	In classroom 1029	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10761	In classroom 1030	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10690	In classroom 1033	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10689	In classroom 1033	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10755	In classroom 1034	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10756	In classroom 1034	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10694	In classroom 1035	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10693	In classroom 1035	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10754	In classroom 1038	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10753	In classroom 1038	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10668	In classroom 1040	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10669	In classroom 1040	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10667	In classroom 1044	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10666	In classroom 1044	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete

LW10665	In classroom 1046	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10664	In classroom 1046	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
Lw10681	In classroom 1053	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10682	In classroom 1053	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10678	In classroom 1057	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10677	In classroom 1057	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10673	In classroom 1059	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10674	In classroom 1059	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10763	In classroom 1061	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10762	In classroom 1061	Classroom Combination Sink	1.4	Pass	N/A	Testing Complete
Lw10672	In classroom 1067	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10752	In classroom 1067	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10671	In classroom 1071	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10670	In classroom 1071	Classroom Combination Sink	1.2	Pass	N/A	Testing Complete
LW10720	In classroom 2007	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10719	In classroom 2007	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW10718	In classroom 2011	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10717	In classroom 2011	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw10716	In classroom 2013	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10715	In classroom 2013	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11088	In classroom 2031	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10712	In classroom 2031	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW11076	In classroom 2034	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11257	In classroom 2034	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11087	In classroom 2035	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11086	In classroom 2035	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11255	In classroom 2036	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11256	In classroom 2036	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW11085	In classroom 2037	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11084	In classroom 2037	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW11252	In classroom 2040	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11251	In classroom 2040	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW11247	In classroom 2048	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete

LW11248	In classroom 2048	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW11246	In classroom 2052	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11245	In classroom 2052	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11083	In classroom 2053	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11082	In classroom 2053	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11243	In classroom 2054	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11244	In classroom 2054	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11077	In classroom 2057	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11078	In classroom 2057	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11242	In classroom 2058	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11241	In classroom 2058	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
LW11254	In classroom 2059	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11253	In classroom 2059	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11249	In classroom 2065	Classroom Combination Drinking Fountain	1.4	Pass	N/A	Testing Complete
LW11250	In classroom 2065	Classroom Combination Sink	8.7	Fail	<1	Testing Complete
LW11240	In classroom 2075	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11239	In classroom 2075	Classroom Combination Sink	<1	Pass	N/A	Testing Complete
Lw11237	In classroom 2079	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10684	In gym	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10683	In gym 1020	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10685	In gym 1020	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10721	In hallway adjacent to room 2001	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw10730	In hallway adjacent to 1021	Bottle Filler	<1	Pass	N/A	Testing Complete
Lw10616	In hallway adjacent to room 1018	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10687	In hallway adjacent to room 1018	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10688	In hallway adjacent to room 1018	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10731	In hallway adjacent to room 1021	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10732	In hallway adjacent to room 1021	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10722	In hallway adjacent to room 2001	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw10723	In hallway adjacent to room 2001	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11079	In hallway adjacent to room 2030	Bottle Filler	<1	Pass	N/A	Testing Complete
LW11080	In hallway adjacent to room 2030	Drinking Fountain	<1	Pass	N/A	Testing Complete
Lw11081	In hallway adjacent to room 2030	Drinking Fountain	<1	Pass	N/A	Testing Complete

Lw10757	In hallway adjacent to stair 3	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10758	In hallway adjacent to stair 3	Bottle Filler	<1	Pass	N/A	Testing Complete
LW10759	In hallway adjacent to stair 3	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW10785	In hallway adjacent to stair 3	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW11236	In health room 1000N	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW10725	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10726	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
Lw10727	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW10728	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
Lw10729	In kitchen	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW11232	In media center 1002	Classroom Combination Drinking Fountain	1.7	Pass	N/A	Testing Complete
Lw10737	In media center 1002	Classroom Combination Sink	1.3	Pass	N/A	Testing Complete
Lw10714	In privacy room 2091B	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
Lw10713	In staff lounge 2091	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
Lw11235	In work room 1000k	Teacher's Lounge Sink	<1	Pass	N/A	Testing Complete





## MONTGOMERY COUNTY PUBLIC SCHOOLS DRINKING WATER TESTING 2018

May 16, 2018

**Executive Summary:**  
**Maryvale Elementary School**  
1000 1<sup>st</sup> Street  
Rockville, MD 20850

Round of Testing:	Initial
# of Outlets Tested:	61
# of Outlets $\geq$ 20 ppb:	4
Low Value (ppb):	< 1.0
High Value (ppb):	310.0
Follow-Up Testing Required (Samples $\geq$ 20 ppb):	Conference Room (67.3 ppb) Classroom 203 ( 53.1 ppm) Classroom 606 (310.0 ppb) Classroom 2 (27.8 ppb)

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

**Project Status**  
**Testing Complete: Remediation Plan**

Conference Room– Replace fixture (LW06736), in addition to supply line and valve located under sink  
Classroom 203 – Replace fixture (LW06741), in addition to supply line and valve located under sink  
Classroom 606 – Replace fixture (LW06776), in addition to supply line and valve located under sink  
Classroom 2 – Replace fixture (M22618), in addition to supply line and valve located under sink



May 16, 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: Maryvale Elementary School  
1000 1<sup>st</sup> Street  
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 Maryvale Elementary School, located at 1000 1<sup>st</sup> Street in Rockville, MD 20850.

**Scope of Services:**

PSI conducted lead in water testing at Maryvale 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 2/28/18 and 3/1/18 to collect samples from 61 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 4/13/18.

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)
LW06736	Conference Room	3/1/18	67.3	4/13/18	13.2
LW06741	Classroom 203	3/1/18	53.1	4/13/18	1.4
LW06776	Classroom 606	3/1/18	310.0	4/13/18	<1.0
M22618	Classroom 2	3/1/18	27.8	4/13/18	72.6

The initial lead in water sample results (3/01/2018) and 30 second follow up results (4/13/18) 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.**

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Attachments:            A – Lead in Water Test Summary Table

# ATTACHMENT A

## Maryvale ES Water Test Summary Table

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Initial Sample Results for Maryvale Elementary School (3/1/18)

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW06721	601	Classroom		Bubbler - Indoor	5.5	Pass	Testing Complete
LW06722	602	Classroom		Faucet	11.0	Pass	Testing Complete
LW06723	602	Classroom		Bubbler - Indoor	8.8	Pass	Testing Complete
LW06724	105	Classroom		Faucet	3.5	Pass	Testing Complete
LW06725	106	Classroom		Faucet	8.5	Pass	Testing Complete
LW06726	106	Classroom		Bubbler - Indoor	4.3	Pass	Testing Complete
LW06727		Hallway	Next To 103a	Cooler	<1.0	Pass	Testing Complete
LW06728	103A	Classroom		Faucet	3.5	Pass	Testing Complete
LW06729	104	Classroom		Faucet	10.2	Pass	Testing Complete
LW06730	104	Classroom		Bubbler - Indoor	8.4	Pass	Testing Complete
LW06731	102	Classroom		Faucet	4.8	Pass	Testing Complete
LW06732	102	Classroom		Bubbler - Indoor	3.0	Pass	Testing Complete
LW06734	101	Classroom		Bubbler - Indoor	2.2	Pass	Testing Complete
LW06735	2	Classroom		Faucet	3.3	Pass	Testing Complete
LW06736		Conference Room		Faucet	67.3	Fail	Follow-Up Testing Needed
LW06737	1	Classroom		Faucet	1.5	Pass	Testing Complete
LW06738	201	Classroom		Faucet	3.5	Pass	Testing Complete
LW06740	203	Classroom		Faucet	5.8	Pass	Testing Complete
LW06741	203	Classroom		Bubbler - Indoor	53.1	Fail	Follow-Up Testing Needed
LW06742	205	Classroom		Bubbler - Indoor	3.5	Pass	Testing Complete
LW06743		Work Room Administration		Faucet	1.0	Pass	Testing Complete
LW06744		Health Room		Faucet	7.3	Pass	Testing Complete
LW06745	603	Classroom		Faucet	1.2	Pass	Testing Complete
LW06746	603	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06747	604	Classroom		Faucet	6.1	Pass	Testing Complete
LW06748	604	Classroom		Bubbler - Indoor	2.7	Pass	Testing Complete
LW06749	605	Classroom		Faucet	3.9	Pass	Testing Complete
LW06750	605	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW06751	306	Classroom		Faucet	6.3	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results	Pass/Fail	Status
LW06752	306	Cafeteria		Bubbler - Indoor	5.3	Pass	Testing Complete
LW06753	304	Classroom		Faucet	6.7	Pass	Testing Complete
LW06754	304	Classroom		Bubbler - Indoor	3.9	Pass	Testing Complete
LW06755	302	Classroom		Faucet	1.6	Pass	Testing Complete
LW06756		Break Room	Next To Kitchen	Faucet	<1.0	Pass	Testing Complete
LW06757		Kitchen		Faucet	1.6	Pass	Testing Complete
LW06758		Kitchen		Faucet	1.5	Pass	Testing Complete
LW06759		Kitchen		Faucet	2.2	Pass	Testing Complete
LW06760	402	Kindergarten		Faucet	2.5	Pass	Testing Complete
LW06761	401	Classroom		Faucet	3.2	Pass	Testing Complete
LW06762	401	Classroom		Bubbler - Indoor	4.5	Pass	Testing Complete
LW06763	406	Classroom		Faucet	2.4	Pass	Testing Complete
LW06764	403	Classroom		Faucet	3.6	Pass	Testing Complete
LW06765	403	Classroom		Bubbler - Indoor	10.2	Pass	Testing Complete
LW06766	408	Classroom		Faucet	1.3	Pass	Testing Complete
LW06767	412	Classroom		Faucet	1.3	Pass	Testing Complete
LW06768	412	Classroom		Faucet	1.8	Pass	Testing Complete
LW06769	405	Classroom		Faucet	5.4	Pass	Testing Complete
LW06770	405	Classroom		Bubbler - Indoor	3.1	Pass	Testing Complete
LW06771		Hallway	Next To 72 (art)	Cooler	<1.0	Pass	Testing Complete
LW06772	71	Music		Faucet	15.8	Pass	Testing Complete
LW06773		Office	Inside Of PE Office	Faucet	11.3	Pass	Testing Complete
LW06774	607	Classroom		Faucet	11.5	Pass	Testing Complete
LW06775	607	Classroom		Bubbler - Indoor	8.6	Pass	Testing Complete
LW06776	606	Classroom		Faucet	310.0	Fail	Follow-Up Testing Needed
LW06777	606	Classroom		Bubbler - Indoor	11.4	Pass	Testing Complete
LW06842	601	Classroom		Faucet	6.1	Pass	Testing Complete
M22524		Work Room Media Center		Faucet	4.4	Pass	Testing Complete
M22534	205	Classroom		Faucet	4.7	Pass	Testing Complete
M22565		Hallway	Next to JC C4	Cooler	<1.0	Pass	Testing Complete
M22618	2	Classroom		Faucet	27.8	Fail	Follow-Up Testing Needed
M22623		Hallway	Outside Admin	Cooler	<1.0	Pass	Testing Complete

\*ppb = parts per billion

**Contractor:** Professional Services Industries, Inc.

**Certified Laboratory:** Microbac Laboratories, Inc.

Follow Up Sample Results for Maryvale Elementary School (4/13/18)

Barcode ID	Room Number	Location	Equipment Type	Initial draw (2 <sup>nd</sup> ) (PPB)	Initial draw (3 <sup>rd</sup> ) (PPB)	30 Second Draw (PPB)	Status
LW06736		Conference Room	Faucet	18.2	85.8	13.2	Remediation required – replace fixture, in addition to supply line and valve located under sink
LW06741	203	Classroom	Bubbler- indoor	3.7	5.0	1.4	Remediation required – replace fixture, in addition to supply line and valve located under sink
LW06776	606	Classroom	Faucet	131.0	9.5	<1.0	Remediation required – replace fixture, in addition to supply line and valve located under sink
M22618	2	Classroom	Faucet	3,740.0	10,100.0	72.6	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.