

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Farmland Elementary School
7000 Old Gate Road
Rockville, MD 20852**

Report Date: June 23, 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	4/18/23
# of Outlets Tested	55
# 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 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 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 Farmland ES

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
F70204	In kitchen 170	Kitchen Sink	<1.0	Pass	Testing Complete
LW05495	In kitchen 170	Kitchen Sink	1.2	Pass	Testing Complete
M09494	In ESOL 268	Classroom Combination Drinking Fountain	3.0	Pass	Testing Complete
M09496	In ESOL 273	Classroom Combination Drinking Fountain	1.3	Pass	Testing Complete
M09500	In ESOL 271	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09504	In hallway across CR 271	Drinking Fountain	<1.0	Pass	Testing Complete
M09505	In hallway across from CR 271	Drinking Fountain	<1.0	Pass	Testing Complete
M09511	In material prep 251	Classroom Combination Sink	2.6	Pass	Testing Complete
M09512	In break room 250	Teachers Lounge Sink	1.3	Pass	Testing Complete
M09514	In classroom 201	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09516	In classroom 200	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09518	In classroom 205	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09520	In classroom 204	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
M09522	In classroom 207	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09524	In classroom 206	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09526	In classroom 211	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09528	In classroom 210	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09530	In classroom 213	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09534	In classroom 217	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09536	In classroom 216	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09541	In hallway next to 218	Drinking Fountain	<1.0	Pass	Testing Complete
M09542	In hallway next to 218	Drinking Fountain	<1.0	Pass	Testing Complete
M09550	In classroom 229	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09552	In classroom 230	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09554	In classroom 233	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09556	In classroom 234	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
M09560	In classroom 238	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09562	In classroom 239	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09564	In music 161	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09568	In dual purpose room 157	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09580	In classroom 151 Prekindergarten	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09582	In hallway across from 150 APR	Drinking Fountain	<1.0	Pass	Testing Complete
M09583	In hallway across from 150 APR	Drinking Fountain	<1.0	Pass	Testing Complete
M09584	In work room 100A by admin	Teachers Lounge Sink	2.0	Pass	Testing Complete
M09585	In health room 102 by office	Nurses Office Sink	<1.0	Pass	Testing Complete
M09590	In kindergarten 103	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09593	In kindergarten 107	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09596	In kindergarten 111	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09598	In resource center 106	Classroom Sink	<1.0	Pass	Testing Complete
M09600	In kindergarten 115	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
M09603	In special ed 108	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09610	In classroom 130	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09612	In classroom 131	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09614	In classroom 134	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09616	In classroom 135	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09618	In classroom 137	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09620	In classroom 138	Classroom Combination Sink	<1.0	Pass	Testing Complete
M09622	In classroom 141	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete
M09627	In hallway across from gym	Drinking Fountain	<1.0	Pass	Testing Complete
M09628	In hallway across from gym	Drinking Fountain	<1.0	Pass	Testing Complete
M09637	In kitchen 170	Kitchen Sink	<1.0	Pass	Testing Complete
LW12595	Hallway across 150	Drinking Fountain	<1.0	Pass	Testing Complete
LW12596	Hallway next to 218	Drinking Fountain	<1.0	Pass	Testing Complete
LW12598	Hallway across Gym	Drinking Fountain	<1.0	Pass	Testing Complete

Outlet Barcode	Outlet Location	Outlet Type	Initials Results (ppb)	Pass/Fail	Status
M09606	Classroom 112	Classroom Combination Drinking Fountain	<1.0	Pass	Testing Complete

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Farmland Elementary School
7000 Old Gate Road
Rockville, MD 20852**

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	2/27/2020
# of Outlets Tested	88
# of Outlets \geq 5 ppb	5

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 Farmland ES

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
F70204	In kitchen 170	Kitchen Sink	<1	Pass	N/A	Testing complete
LW05495	In kitchen 170	Kitchen Sink	<1	Pass	N/A	Testing complete
LW05496	In music 154	Classroom Combination Sink	<1	Pass	N/A	Testing complete
LW05497	In music 154	Classroom Combination Drinking Fountain	8.3	Fail	NC	Remediation Action Plan
LW05498	In ESOL 271	Classroom Combination Sink	3.7	Pass	N/A	Testing complete
M09493	In ESOL 268	Classroom Combination Sink	2.6	Pass	N/A	Testing complete
M09494	In ESOL 268	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09495	In ESOL 273	Classroom Combination Sink	9.5	Fail	NC	Remediation Action Plan
M09496	In ESOL 273	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09497	In ESOL 264	Classroom Combination Sink	1.1	Pass	N/A	Testing complete
M09500	In ESOL 271	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09504	In hallway across CR 271	Drinking Fountain	<1	Pass	N/A	Testing complete
M09505	In hallway across from CR 271	Drinking Fountain	<1	Pass	N/A	Testing complete
M09511	In material prep 251 by media center ie. inside IMC	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09512	In break room 250	Teachers Lounge Sink	7.9	Fail	NC	Remediation Action Plan
M09513	In classroom 201	Classroom Combination Sink	1.7	Pass	N/A	Testing complete
M09514	In classroom 201	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09515	In classroom 200	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09516	In classroom 200	Classroom Combination Drinking Fountain	2.2	Pass	N/A	Testing complete
M09518	In classroom 205	Classroom Combination Drinking Fountain	2.5	Pass	N/A	Testing complete
M09519	In classroom 204	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09520	In classroom 204	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09521	In classroom 207	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09522	In classroom 207	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09523	In classroom 206	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09524	In classroom 206	Classroom Combination Drinking Fountain	2.1	Pass	N/A	Testing complete
M09525	In classroom 211	Classroom Combination Sink	2.2	Pass	N/A	Testing complete

M09526	In classroom 211	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09527	In classroom 210	Classroom Combination Sink	5.4	Fail	NC	Remediation Action Plan
M09528	In classroom 210	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09529	In classroom 213	Classroom Combination Sink	1.9	Pass	N/A	Testing complete
M09530	In classroom 213	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09531	In classroom 212	Classroom Combination Sink	1.4	Pass	N/A	Testing complete
M09533	In classroom 217	Classroom Combination Sink	1.3	Pass	N/A	Testing complete
M09534	In classroom 217	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09535	In classroom 216	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09536	In classroom 216	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09541	In hallway next to 218	Drinking Fountain	<1	Pass	N/A	Testing complete
M09542	In hallway next to 218	Drinking Fountain	<1	Pass	N/A	Testing complete
M09549	In classroom 229	Classroom Combination Sink	1.7	Pass	N/A	Testing complete
M09550	In classroom 229	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09551	In classroom 230	Classroom Combination Sink	1.3	Pass	N/A	Testing complete
M09552	In classroom 230	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09553	In classroom 233	Classroom Combination Sink	1.0	Pass	N/A	Testing complete
M09554	In classroom 233	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09555	In classroom 234	Classroom Combination Sink	3.1	Pass	N/A	Testing complete
M09556	In classroom 234	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09557	In classroom 235	Classroom Combination Sink	5.4	Fail	NC	Remediation Action Plan
M09558	In classroom 235	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09559	In classroom 238	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09560	In classroom 238	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09561	In classroom 239	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09562	In classroom 239	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09563	In music 161 by music	Classroom Combination Sink	1.8	Pass	N/A	Testing complete
M09564	In music 161 by music	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09567	In dual purpose room 157 by dual purpose room	Classroom Combination Sink	2.1	Pass	N/A	Testing complete
M09568	In dual purpose room 157 by dual purpose room	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete

M09580	In classroom 151 Prekindergarten	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09582	In hallway across from 150 APR	Drinking Fountain	<1	Pass	N/A	Testing complete
M09583	In hallway across from 150 APR	Drinking Fountain	<1	Pass	N/A	Testing complete
M09584	In work room 100A by admin ie. inside admin	Teachers Lounge Sink	<1	Pass	N/A	Testing complete
M09585	In health room 102 by office	Nurses Office Sink	<1	Pass	N/A	Testing complete
M09590	In kindergarten 103 by kindergarten	Classroom Combination Drinking Fountain	1.7	Pass	N/A	Testing complete
M09592	In kindergarten 107 by kindergarten	Classroom Combination Sink	1.7	Pass	N/A	Testing complete
M09593	In kindergarten 107 by kindergarten	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09595	In kindergarten 111 by kindergarten	Classroom Combination Sink	2.0	Pass	N/A	Testing complete
M09596	In kindergarten 111 by kindergarten	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09598	In resource center 106	Classroom Sink	2.2	Pass	N/A	Testing complete
M09599	In kindergarten 115 by kindergarten	Classroom Combination Sink	1.4	Pass	N/A	Testing complete
M09600	In kindergarten 115 by kindergarten	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09602	In special ed 108	Classroom Combination Sink	2.1	Pass	N/A	Testing complete
M09603	In special ed 108	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09609	In classroom 130	Classroom Combination Sink	2.5	Pass	N/A	Testing complete
M09610	In classroom 130	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09611	In classroom 131	Classroom Combination Sink	1.8	Pass	N/A	Testing complete
M09612	In classroom 131	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09613	In classroom 134	Classroom Combination Sink	2.1	Pass	N/A	Testing complete
M09614	In classroom 134	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09615	In classroom 135	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09616	In classroom 135	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09617	In classroom 137	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09618	In classroom 137	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09620	In classroom 138	Classroom Combination Sink	<1	Pass	N/A	Testing complete
M09621	In classroom 141	Classroom Combination Sink	1.9	Pass	N/A	Testing complete
M09622	In classroom 141	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing complete
M09627	In hallway across from gym	Drinking Fountain	<1	Pass	N/A	Testing complete
M09628	In hallway across from gym	Drinking Fountain	<1	Pass	N/A	Testing complete

M09637	In kitchen 170 by kitchen	Kitchen Sink	<1	Pass	N/A	Testing complete
--------	---------------------------	--------------	----	------	-----	------------------

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 Post-Remediation Follow-Up Testing 2019

August 30, 2019

Executive Summary:

Farmland Elementary School

7000 Old Gate Road

Rockville, Maryland 20852

Round of Testing:	Post-Remediation Follow-up
Sample Date	1/24/19
# of Outlets Tested:	2
# of Outlets ≥ 5 ppb:	0
Low Value (ppb):	1.6
High Value (ppb):	2.7

Project Status

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

ESOL 264 - Outlet (M09497) will be placed back into service

ESOL 264 - Outlet (M09498) will be placed back into service



August 30, 2019

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
8301 Turkey Thicket Dr., Bldg A, 1st Floor
Gaithersburg, Maryland 20879

Re: Lead in Water Post-Remediation Follow-up Testing Service

Location: Farmland Elementary School

7000 Old Gate Road
Rockville, Maryland 20852

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of the post-remediation follow-up lead in water testing at Farmland Elementary School, located at 7000 Old Gate Road in Rockville, Maryland 20852.

SCOPE OF SERVICES

Two drinking water outlets were remediated at Farmland Elementary School due to initial lead levels that exceeded the lead action level of 5 parts per billion (ppb). KCI Technologies, Inc. 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.

KCI Technologies, Inc. visited the site on 1/23/19 and 1/24/19 to collect post-remediation follow-up samples from 2 drinking water outlets 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 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
M09497	264	ESOL	Fixture type corrected, both fixtures replaced and retested	Bubbler - Indoor	564	1.9	2.7	Pass	Post-remediation follow-up testing complete. Outlet will be placed back into service
M09498	264	ESOL	Fixture type corrected, both fixtures replaced and retested	Faucet	8.5	N/A	1.6	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,
KCI Technologies, Inc.



Kamau McAbee
MDE Certified Water Sampler #8281KM
KCI Job #1214634186



Montgomery County Public Schools Lead in Drinking Water Testing 2018

April 27, 2018

Executive Summary:
Farmland Elementary School
700 Old Gate Road
Rockville, Maryland 20852

Round of Testing:	Initial
# of Outlets Tested:	95
# of Outlets ≥ 20 ppb:	1
Low Value (ppb):	<1.0
High Value (ppb):	564
Follow-Up Testing Required (Samples ≥ 20 ppb):	ESOL (564 ppb)

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

Project Status:
Testing Complete: Remediation Plan

ESOL - Replace fixture (M09497), in addition to supply line and valve located under sink



April 27, 2018

Mr. Brian Mullikin, MS
Environmental Team Leader
Montgomery County Public Schools
Division of Maintenance
Gaithersburg, Maryland 20879

Re: Drinking Water Testing

KCI Job #1214634189

Location: Farmland Elementary School

700 Old Gate Road
Rockville, Maryland 20852

Dear Mr. Mullikin:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of initial and follow-up lead in water testing at Farmland Elementary School, located at 700 Old Gate Road in Rockville, Maryland 20852.

SCOPE OF SERVICES

KCI conducted lead in water testing at Farmland 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.

KCI visited the site on 3/5/2018 and 3/6/2018 to collect samples from 95 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. On 4/12/2018, one 30 second follow-up sample was collected.

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 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)
M09497	Faucet - ESOL	3/6/2018	564	4/12/2018	1.9

The initial lead in water sample results (3/6/2018) and 30 second follow up results (4/12/2018) 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,
KCI Technologies, Inc.



Kamau McAbee
MDE Certified Water Sampler #8281KM

Attachment:

A- Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

ATTACHMENT A

Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Initial Sample Results for Farmland Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
F70204	170	Kitchen		Faucet	1.4	Pass	Testing Complete
LW05495	170	Kitchen		Faucet	2.6	Pass	Testing Complete
LW05496	154	Music		Faucet	2.6	Pass	Testing Complete
LW05497	154	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05498	271	ESOL		Faucet	2.4	Pass	Testing Complete
M09493	268	ESOL	ESOL	Faucet	1.1	Pass	Testing Complete
M09494	268	ESOL	ESOL	Bubbler - Indoor	<1.0	Pass	Testing Complete
M09495	273	ESOL	ESOL	Faucet	3.2	Pass	Testing Complete
M09496	273	ESOL	ESOL	Bubbler - Indoor	<1.0	Pass	Testing Complete
M09497	264	ESOL	ESOL	Faucet	564	Fail	Testing Complete
M09498	264	ESOL	ESOL	Bubbler - Indoor	8.5	Pass	Testing Complete
M09500	271	ESOL	ESOL	Bubbler - Indoor	<1.0	Pass	Testing Complete
M09504		Hallway	Across Rm CR 271	Cooler	<1.0	Pass	Testing Complete
M09505		Hallway	Across from CR 271	Cooler	<1.0	Pass	Testing Complete
M09511	251	Material Prep Media Center	inside IMC	Faucet	4.1	Pass	Testing Complete
M09512	250	Break Room		Faucet	<1.0	Pass	Testing Complete
M09513	201	Classroom		Faucet	3.2	Pass	Testing Complete
M09514	201	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09515	200	Classroom		Faucet	2.5	Pass	Testing Complete
M09516	200	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09517	205	Classroom		Faucet	5.5	Pass	Testing Complete
M09518	205	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09519	204	Classroom		Faucet	2.7	Pass	Testing Complete
M09520	204	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09521	207	Classroom		Faucet	2.7	Pass	Testing Complete
M09522	207	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09523	206	Classroom		Faucet	3.1	Pass	Testing Complete
M09524	206	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09525	211	Classroom		Faucet	2.4	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M09526	211	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09527	210	Classroom		Faucet	3.2	Pass	Testing Complete
M09528	210	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09529	213	Classroom		Faucet	2.1	Pass	Testing Complete
M09530	213	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09531	212	Classroom		Faucet	3.1	Pass	Testing Complete
M09533	217	Classroom		Faucet	2.6	Pass	Testing Complete
M09534	217	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09535	216	Classroom		Faucet	3.4	Pass	Testing Complete
M09536	216	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09541		Hallway	Next To Rm 218	Cooler	<1.0	Pass	Testing Complete
M09542		Hallway	Next To Rm 218	Cooler	<1.0	Pass	Testing Complete
M09549	229	Classroom		Faucet	2.5	Pass	Testing Complete
M09550	229	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09551	230	Classroom		Faucet	<1.0	Pass	Testing Complete
M09552	230	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09553	233	Classroom		Faucet	<1.0	Pass	Testing Complete
M09554	233	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09555	234	Classroom		Faucet	1.0	Pass	Testing Complete
M09556	234	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09557	235	Classroom		Faucet	<1.0	Pass	Testing Complete
M09558	235	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09559	238	Classroom		Faucet	1.5	Pass	Testing Complete
M09560	238	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09561	239	Classroom		Faucet	2.4	Pass	Testing Complete
M09562	239	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09563	161	Music		Faucet	2.4	Pass	Testing Complete
M09564	161	Music		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09567	157	Dual Purpose Room		Faucet	2.8	Pass	Testing Complete
M09568	157	Dual Purpose Room		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09579	151	Classroom	Pre-Kindergarten	Faucet	5.4	Pass	Testing Complete
M09580	151	Classroom	Prekindergarten	Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M09582		Hallway	Across from 150 APR Rm	Cooler	<1.0	Pass	Testing Complete
M09583		Hallway	Across from 150 APR Rm	Cooler	<1.0	Pass	Testing Complete
M09584	100A	Work Room Admin	inside Admin	Faucet	<1.0	Pass	Testing Complete
M09585	102	Health Room Office		Faucet	<1.0	Pass	Testing Complete
M09589	103	Kindergarten		Faucet	5.1	Pass	Testing Complete
M09590	103	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09592	107	Kindergarten		Faucet	4.7	Pass	Testing Complete
M09593	107	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09595	111	Kindergarten		Faucet	3.9	Pass	Testing Complete
M09596	111	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09598	106	Resource Center		Faucet	2.5	Pass	Testing Complete
M09599	115	Kindergarten		Faucet	2.3	Pass	Testing Complete
M09600	115	Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09602	108	Special Ed		Faucet	2.8	Pass	Testing Complete
M09603	108	Special Ed		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09609	130	Classroom		Faucet	1.7	Pass	Testing Complete
M09610	130	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09611	131	Classroom		Faucet	<1.0	Pass	Testing Complete
M09612	131	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09613	134	Classroom		Faucet	<1.0	Pass	Testing Complete
M09614	134	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09615	135	Classroom		Faucet	<1.0	Pass	Testing Complete
M09616	135	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09617	137	Classroom		Faucet	<1.0	Pass	Testing Complete
M09618	137	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09619	138	Classroom		Faucet	5.5	Pass	Testing Complete
M09620	138	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09621	141	Classroom		Faucet	2.5	Pass	Testing Complete
M09622	141	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
M09627		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
M09628		Hallway	Across from Gym	Cooler	<1.0	Pass	Testing Complete
M09637	170	Kitchen		Faucet	<1.0	Pass	Testing Complete

*PPB = parts per billion

Contractor: KCI Technologies, Inc.
Certified Laboratory: Microbac Laboratories, Inc.

Follow Up Sample Results for Farmland Elementary School

Barcode ID	Room #	Location	Equipment Type	Initial Draw (2nd) (PPB)	Initial Draw (3rd) (PPB)	30 Second Draw (PPB)*	Status
M09497	264	ESOL	Faucet	11.5	3.6	1.9	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.