

Montgomery County Public Schools Lead in Drinking Water Testing Report

**Olney Elementary School
3401 Queen Mary Drive
Olney, MD 20832**

Report Date: February 20th, 2022

LEAD IN DRINKING WATER SAMPLE RESULTS SUMMARY

All Maryland public and nonpublic schools are required to sample all drinking water outlets for the presence of lead pursuant to the Code of Maryland Regulations (COMAR). Montgomery County Public Schools (MCPS) is required to remediate outlets where lead in drinking water concentrations exceed the Montgomery County Action Level (AL) of 5 parts per billion (ppb). A summary of the lead in water initial samples collected by SaLUT are presented in the table below.

Sampling Date	12/1/2021
# of Outlets Tested	44
# of Outlets \geq 5 ppb	11

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 Olney Elementary School

Fixture Barcode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW05733	In dual purpose room	Classroom Combination Sink	5.6	Fail	<1	Testing Complete
LW05735	In hallway next to gym	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW05736	In hallway adjacent to computer lab	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW05737	In break room	Teachers Lounge Sink	3.3	Pass	N/A	Testing Complete
LW05959	In health room by administration	Nurses Office Sink	4.1	Pass	N/A	Testing Complete
LW05962	In hallway adjacent to art room	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW05963	In classroom 19	Classroom Combination Sink	4.4	Pass	N/A	Testing Complete
LW05964	In classroom 19	Classroom Combination Drinking Fountain	2.9	Pass	N/A	Testing Complete
LW05965	In classroom 20	Classroom Combination Sink	1.5	Pass	N/A	Testing Complete
LW05966	In classroom 20	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW05969	In classroom 22	Classroom Combination Sink	3.6	Pass	N/A	Testing Complete
LW05970	In classroom 22	Classroom Combination Drinking Fountain	1.2	Pass	N/A	Testing Complete
LW05971	In classroom 23	Classroom Combination Sink	2.3	Pass	N/A	Testing Complete
LW05972	In classroom 23	Classroom Combination Drinking Fountain	1.7	Pass	N/A	Testing Complete
LW05974	In classroom 24	Classroom Combination Drinking Fountain	1.3	Pass	N/A	Testing Complete
LW05976	In classroom 25	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW05977	In classroom 26	Classroom Combination Sink	7.2	Fail	6.6	Testing Complete
LW05981	In classroom 16	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW05982	In classroom 15	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW05984	In classroom 17	Classroom Combination Sink	3.2	Pass	N/A	Testing Complete
LW05985	In classroom 17	Classroom Combination Drinking Fountain	1.1	Pass	N/A	Testing Complete
LW05986	In classroom 18	Classroom Combination Sink	5.8	Fail	1.3	Testing Complete
LW05988	In classroom 4 by kindergarten	Classroom Combination Sink	4.0	Pass	N/A	Testing Complete
LW05989	In classroom 4 by kindergarten	Classroom Combination Drinking Fountain	<1.0	Pass	N/A	Testing Complete
LW05990	In classroom 3 by kindergarten	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW05991	In classroom 3 by kindergarten	Classroom Combination Drinking Fountain	2.7	Pass	N/A	Testing Complete
LW05993	In classroom 2 by kindergarten	Classroom Combination Drinking Fountain	2.6	Pass	N/A	Testing Complete
LW05994	In classroom 1 by kindergarten	Classroom Combination Sink	<1.0	Pass	N/A	Testing Complete
LW05995	In classroom 1 by kindergarten	Classroom Combination Drinking Fountain	10.1	Fail	1.6	Testing Complete
LW05998	In classroom 6	Classroom Combination Sink	2.6	Pass	N/A	Testing Complete
LW06005	In classroom 9	Classroom Combination Drinking Fountain	13.7	Fail	<1	Testing Complete

LW06006	In classroom 10	Classroom Combination Sink	2.8	Pass	N/A	Testing Complete
LW06008	In classroom 11	Classroom Combination Sink	7.7	Fail	2.9	Testing Complete
LW06010	In classroom 12	Classroom Combination Sink	3.9	Pass	N/A	Testing Complete
LW06012	In classroom 13	Classroom Combination Sink	5.7	Fail	<1	Testing Complete
LW06013	In classroom 13	Classroom Combination Drinking Fountain	5.8	Fail	Device removed	Testing Complete
LW11020	In hallway adjacent to computer room	Bottle Filler	<1.0	Pass	N/A	Testing Complete
M22914	In hallway adjacent to CR 5	Drinking Fountain	<1.0	Pass	N/A	Testing Complete
M22939	In kitchen	Kitchen Sink	9.4	Fail	1.5	Testing Complete
M22941	In kitchen	Kitchen Sink	3.7	Pass	N/A	Testing Complete
M22942	In kitchen	Kitchen Sink	<1.0	Pass	N/A	Testing Complete
M22943	In kitchen	Kitchen Sink	3.5	Pass	N/A	Testing Complete
M22948	In Instrumental music room	Classroom Sink	32.2	Fail	<1	Testing Complete
M22960	In classroom 14	Classroom Combination Sink	7.6	Fail	2.3	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Olney Elementary School

3401 Queen Mary Drive

Olney, Maryland 20832

Date of Test Report:	4/5/2018
Round of Testing:	Initial
# of Outlets Tested:	63
# of Outlets \geq 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	13

Project Status:

Initial testing complete: All results less than 20 ppb.



4/5/2018

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: Olney Elementary School

3401 Queen Mary Drive
Olney, Maryland 20832

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 lead in water testing at Olney Elementary School, located at 3401 Queen Mary Drive in Olney, Maryland 20832.

SCOPE OF SERVICES

KCI conducted lead in water testing at Olney 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 3/15/2018 and 3/16/2018 to collect samples from 63 drinking water outlets in accordance with current criteria described by the Maryland Department of the Environment (MDE) Draft Lead in Drinking Water - Public and Nonpublic Schools, Title 26, Subtitle 16 Lead, Chapter 07.

Samples were submitted to a laboratory for lead in water analysis using current US EPA methodology. The laboratory has been certified by the Maryland Department of the Environment to analyze drinking water for lead.

RESULTS

There are no results of the lead in water analysis at or above 20 parts per billion (ppb). The lead in water sample results for sample collection date 3/16/2018 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

Attachments:

A- Lead in Water Test Summary Table

B - Laboratory Analytical Results and Chain of Custody

C - Floor Plan With Test Locations

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.

Sample Results for Olney Elementary School

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05732		Kitchen		Faucet	6.3	Pass	Testing Complete
LW05733		Dual Purpose Room		Faucet	4.2	Pass	Testing Complete
LW05734		Dual Purpose Room Classroom		Bubbler - Indoor	4.0	Pass	Testing Complete
LW05736		Hallway	Across From Computer Lab	Cooler	1.1	Pass	Testing Complete
LW05737		Break Room		Faucet	3.0	Pass	Testing Complete
LW05959		Health Room Administration		Faucet	3.2	Pass	Testing Complete
LW05962		Hallway	Across From Art Rm	Cooler	<1.0	Pass	Testing Complete
LW05963	19	Classroom		Faucet	4.6	Pass	Testing Complete
LW05964	19	Classroom		Bubbler - Indoor	2.0	Pass	Testing Complete
LW05965	20	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05966	20	Classroom		Bubbler - Indoor	1.2	Pass	Testing Complete
LW05967	21	Classroom		Faucet	5.3	Pass	Testing Complete
LW05968	21	Classroom		Bubbler - Indoor	5.2	Pass	Testing Complete
LW05969	22	Classroom		Faucet	3.6	Pass	Testing Complete
LW05970	22	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05971	23	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05972	23	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05973	24	Classroom		Faucet	7.1	Pass	Testing Complete
LW05974	24	Classroom		Bubbler - Indoor	1.7	Pass	Testing Complete
LW05975	25	Classroom		Faucet	5.3	Pass	Testing Complete
LW05976	25	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05977	26	Classroom		Faucet	6.3	Pass	Testing Complete
LW05978	26	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05980	16	Classroom		Faucet	9.3	Pass	Testing Complete
LW05982	15	Classroom		Faucet	<1.0	Pass	Testing Complete
LW05984	17	Classroom		Faucet	2.4	Pass	Testing Complete
LW05985	17	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW05986	18	Classroom		Faucet	3.9	Pass	Testing Complete
LW05988	4	Classroom Kindergarten		Faucet	2.7	Pass	Testing Complete
LW05989	4	Classroom Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05990	3	Classroom Kindergarten		Faucet	2.0	Pass	Testing Complete
LW05991	3	Classroom Kindergarten		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05992	2	Classroom Kindergarten		Faucet	6.7	Pass	Testing Complete
LW05993	2	Classroom Kindergarten		Bubbler - Indoor	1.9	Pass	Testing Complete
LW05994	1	Classroom Kindergarten		Faucet	1.0	Pass	Testing Complete
LW05995	1	Classroom Kindergarten		Bubbler - Indoor	1.6	Pass	Testing Complete
LW05996	5	Classroom		Faucet	8.0	Pass	Testing Complete
LW05997	5	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW05998	6	Classroom		Faucet	2.6	Pass	Testing Complete
LW05999	6	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06000	7	Classroom		Faucet	8.4	Pass	Testing Complete
LW06001	7	Classroom		Bubbler - Indoor	1.4	Pass	Testing Complete
LW06002	8	Classroom		Faucet	8.7	Pass	Testing Complete
LW06003	8	Classroom		Bubbler - Indoor	1.0	Pass	Testing Complete
LW06004	9	Classroom		Faucet	6.3	Pass	Testing Complete
LW06005	9	Classroom		Bubbler - Indoor	<1.0	Pass	Testing Complete
LW06006	10	Classroom		Faucet	<1.0	Pass	Testing Complete
LW06008	11	Classroom		Faucet	4.7	Pass	Testing Complete
LW06010	12	Classroom		Faucet	2.5	Pass	Testing Complete
LW06012	13	Classroom		Faucet	4.2	Pass	Testing Complete
LW06013	13	Classroom		Bubbler - Indoor	1.1	Pass	Testing Complete
M22895		Work Room Administration		Faucet	6.1	Pass	Testing Complete
M22914		Hallway	Across CR 5	Cooler	<1.0	Pass	Testing Complete
M22934		Work Room Media Center		Faucet	12.3	Pass	Testing Complete
M22939		Kitchen		Faucet	2.6	Pass	Testing Complete
M22941		Kitchen		Faucet	<1.0	Pass	Testing Complete
M22942		Kitchen		Faucet	<1.0	Pass	Testing Complete

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
M22943		Kitchen		Faucet	3.9	Pass	Testing Complete
M22947		Music		Faucet	7.4	Pass	Testing Complete
M22948		Inst Music		Faucet	13.0	Pass	Testing Complete
M22960	14	Classroom		Faucet	3.5	Pass	Testing Complete

*PPB = parts per billion