

Montgomery County Public Schools Lead in Drinking Water Testing Report

Thomas Edison High School of Technology
12501 Dalewood Dr
Silver Spring, MD 20906

Report Date: February 18th, 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	2/5/2020
# of Outlets Tested	45
# of Outlets \geq 5 ppb	0

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 Thomas Edison HS of Technology

Fixture Barode	Fixture Location	Fixture Type	Initial Results (ppb)	Pass/Fail	Follow up Results (ppb)	Status
LW03554	In academic support office 104	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW03555	In office 104A	Nurses Office Sink	<1	Pass	N/A	Testing Complete
LW03556	In work room 100M	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03557	In kitchen 102	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03558	In kitchen 102	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03559	In kitchen 102	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03560	In kitchen 102	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03561	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03562	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03563	In kitchen 101	Ice Machine	<1	Pass	N/A	Testing Complete
LW03564	In kitchen 101 right of ice maker	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03565	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03566	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03567	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03568	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03569	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03570	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03571	In kitchen 101	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03572	In kitchen 101 right of Fire Cookers	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03573	In kitchen 101 across from Double Ovens	Kitchen Sink	<1	Pass	N/A	Testing Complete
LW03574	In office 107C	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW03575	In 122 Hvac classroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03576	In 124 Electricity classroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03577	In 126 Masonry classroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03578	In 125 Plumbing classroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03579	In 123 Carpentry classroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03580	In 121 Build. & Const. classroom	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03581	In hallway across from foundation offices	Drinking Fountain	<1	Pass	N/A	Testing Complete

LW03582	In hallway across from foundation offices	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03583	In hallway across from foundation offices	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03584	In office 300C	Teachers Lounge Sink	<1	Pass	N/A	Testing Complete
LW03585	In hallway left of 300j mens room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03586	In hallway left of 300j mens room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03587	In hallway left of 300j mens room	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03588	In hallway left of 206	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03589	In hallway left of 206	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03590	In team room 213C	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03591	In team room 207	Classroom Sink	1.1	Pass	N/A	Testing Complete
LW03592	In classroom 200	Classroom Sink	<1	Pass	N/A	Testing Complete
LW03593	In classroom 226	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03594	In hallway left of 236 womens Br	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03595	In hallway left of 236 womens Br	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03596	In classroom 242	Classroom Combination Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03597	In hallway across from G11	Drinking Fountain	<1	Pass	N/A	Testing Complete
LW03598	In hallway across from G11	Drinking Fountain	<1	Pass	N/A	Testing Complete



Montgomery County Public Schools Lead in Drinking Water Testing 2018

Executive Summary:

Thomas Edison High School of Technology

12501 Dalewood Drive

Silver Spring, Maryland 20906

Date of Test Report:	3/13/2018
Round of Testing:	Initial
# of Outlets Tested:	23
# of Outlets ≥ 20 ppb:	0
Low Value (ppb):	<1.0
High Value (ppb):	16.5

Project Status:

Initial testing complete; All results less than 20 ppb.



3/13/2018

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

Re: Drinking Water Testing

KCI Job #1214634186

Location: Thomas Edison High School of Technology

12501 Dalewood Drive
Silver Spring, Maryland 20906

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 Thomas Edison High School of Technology, located at 12501 Dalewood Drive in Silver Spring, Maryland 20906.

SCOPE OF SERVICES

KCI conducted lead in water testing at Thomas Edison High School of Technology 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 1/31/2018 and 2/1/2018 to collect samples from 23 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 2/1/2018 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

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Lead in Water Test Summary Table

Contractor: KCI Technologies, Inc.

Certified Laboratory: Microbac Laboratories, Inc.

Sample Results for Thomas Edison High School of Technology

Barcode ID	Room #	Location	Location Notes	Equipment Type	Results (PPB)*	Pass/Fail	Status
LW02774	2210	Classroom		Faucet	5	Pass	Testing Complete
LW02775	2210	Classroom		Cooler	5.4	Pass	Testing Complete
LW02776	2212	Classroom		Icemaker	<1.0	Pass	Testing Complete
LW02777	2212	Classroom		Faucet	4.7	Pass	Testing Complete
LW02778	2200	Classroom		Cooler	3.5	Pass	Testing Complete
LW02779	2216	Other (See Location Notes)	Staff Lounge	Faucet	1.8	Pass	Testing Complete
LW02780	2232	Classroom		Cooler	16.5	Pass	Testing Complete
LW02781	2233	Classroom		Cooler	1.2	Pass	Testing Complete
LW02782	1120	Classroom		Cooler	2.0	Pass	Testing Complete
LW02783		Hallway Classroom	In Front Of	Cooler	<1.0	Pass	Testing Complete
LW02784	1127	Classroom		Cooler	2.9	Pass	Testing Complete
LW02856		Hallway	Across From	Cooler	1.0	Pass	Testing Complete
LW02857		Hallway	Outside Of	Cooler	1.1	Pass	Testing Complete
LW02859	2210	Classroom		Faucet	06.8	Pass	Testing Complete
LW02860	2210	Classroom		Faucet	11.6	Pass	Testing Complete
LW02861	2210	Classroom		Faucet	6	Pass	Testing Complete
LW02862	2210	Classroom		Faucet	5.1	Pass	Testing Complete
LW02863	2210	Classroom		Faucet	1.3	Pass	Testing Complete
LW02864	2210	Classroom		Icemaker	<1.0	Pass	Testing Complete
M21144		Hallway	Outside CR 2212	Cooler	2.4	Pass	Testing Complete
M21199		Hallway	Across from Admin	Cooler	1.8	Pass	Testing Complete
M21210	1119	Classroom		Cooler	10.1	Pass	Testing Complete
M21216	1111	Conference		Faucet	9.5	Pass	Testing Complete

*PPB = parts per billion