

Lead in Drinking Water – Public and Nonpublic Schools

IMPORTANT NOTICE: ELEVATED WATER SAMPLE RESULT(S) **Chesapeake High School**

ELEVATED LEAD WATER SAMPLE RESULT(S)

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. On April 17, 2019, seven (7) lead water samples were collected from **Chesapeake High School**. Of these lead water samples, one (1) had a level of lead exceeding the action level of 20 parts per billion (ppb) for lead in drinking water in school buildings. The elevated lead results from the sample(s) collected at **Chesapeake High School** were as follows:

Sample Number 000038-Kitchen Sprayer: 2.7 ppb retest (consumable).

Sample Number 000158-Concession Stand Boys Bathroom Hand Sink-Right: 28.3 ppb (non-consumable).

ACTION LEVEL (AL)

The AL is 20 ppb for lead in drinking water in school buildings. The AL is the concentration of lead which, if exceeded, triggers required remediation.

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, and cosmetics, exposure in the workplace and exposure from certain hobbies, brass faucets, fittings, and valves. 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.

IMMEDIATE ACTIONS TAKEN

1. One (1) consumable water source consisting of a kitchen sprayer will be turned back on.
2. One (1) non-consumable water source consisting of a hand sink at the concession stand boys bathroom-right will be placarded with a sticker indicating "Hand Washing Only".

NEXT STEPS

1. All consumable water sources will be tested every three (3) years in accordance with the regulations.

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 Chris Williams, Environmental Issues Program Manager, at 410-360-0138. 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. 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.



AACPS - Operations Division
9034 Ft. Smallwood Road

Tuesday, May 28, 2019

Pasadena, MD 21122

Attention: Chris Williams; Brian Wells

Certificate of Analysis
FINAL

Report for Lab No: 40113.

Chesapeake High School

Sampling by regulation to Maryland House Bill 270 - Lead in Drinking Water

P.O. Number: PO 9212

Sampling by Martel personnel on April 17, 2019

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
40113 000038	Kitchen Sprayer	04/17/2019 05:44
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	2.79 ug/l EPA .200.8 2	05/02/2019 11:26 BJ
40113 000153	Concession Stand HS [OT--NC]	04/17/2019 05:30
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8 2	05/02/2019 11:28 BJ
40113 000154	Concession Stand Dual Sink [OT--C]	04/17/2019 05:30
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8 2	05/02/2019 11:31 BJ
40113 000155	Concession Stand Girls BR HS-L [BS--NC]	04/17/2019 05:35
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8 2	05/02/2019 11:33 BJ
40113 000156	Concession Stand Girls BR HS-R [BS--NC]	04/17/2019 05:35
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8 2	05/02/2019 11:36 BJ
40113 000157	Concession Stand Boys BR HS-L [BS--NC]	04/17/2019 05:36
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial



MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
40113	000157	Concession Stand Boys BR HS-L [BS--NC]				04/17/2019 05:36	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial		
Lead	<2	ug/l	EPA .200.8	2	05/02/2019 11:38 BJ		

MARTEL NO.		CLIENT SAMPLE IDENTIFICATION				Sample Date/Time	
40113	000158	Concession Stand Boys BR HS-R [BS--NC]				04/17/2019 05:36	
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial		
Lead	28.3	ug/l*	EPA .200.8	2	05/02/2019 11:41 BJ		

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1025 Cromwell Bridge Road - Baltimore, Maryland 21286
PH 410-825-7790 FAX 410-821-1054 EMAIL: martel@martellabs.com

stdl.frx

Notes and references:

SM="Standard Methods for the Examination of Water and Wastewater", American Public Health Association, American Water Works Association, and Water Environment Federation. Year in method code is approved date. 40CFR141=U.S. "Code of Federal Regulations", Title 40, Protection of the Environment, Part 141, National Primary Drinking Water Regulations.

* results exceeded 20.5 ug/l.

All samples tested were in acceptable condition, unless otherwise noted.
The results presented herein relate only to the samples or items tested.


Project Manager

MARTEL Chain of Custody Record

Martel Laboratories JDS Inc., 1025 Cromwell Bridge Rd., Baltimore, MD 21286, (410) 825-7790, FAX (410) 821-1054, email: martel@martellabs.com

Anne Arundel County Public Schools Drinking Water Lead Testing

Bottle Type: 250 ml plastic, preserved with HNO3 Analysis: Lead (EPA 200.8)

Start Date/Time: 4-17-19 5:30 AM End Date/Time: 4-17-19 5:45 AM

Sampler/Relinquished By: Jawon Cook Received at Martel by Jawon Cook Date/Time: 4-17-19 9:20 AM

Area 1: Failed Consumable Outlets - Kitchens, FAC's (Home ECC), Health Rooms & Winterized Concession Stands/Field Houses

School: Chesapeake High School

**ALL OUTLET WERE FLUSHED THE NIGHT BEFORE
SAMPLING BETWEEN THE HOURS OF 8PM AND 9PM**

Martel NO:

40113

Sample #	Room #	Fixture Type <i>(Sink, Bubbler, Water Fountain, Gooseneck, Ice</i>	Outlet Key Codes		Time/notes
			OT	C or NC?	
40113-153	Concession Stand	HS	OT	NC	5:30
40113-154	Concession Stand	Dual Sink	OT	C	5:30
40113-155	Concession Stand Girls BR	HS-L	BS	NC	5:35
40113-156	Concession Stand Girls BR	HS-R	BS	NC	5:35
40113-157	Concession Stand Boys BR	HS-L	BS	NC	5:36
40113-158	Concession Stand Boys BR	HS-R	BS	NC	5:36
<u>40113-38</u>	<u>Kitchen Sprayer</u>	<u>Sprayer</u>	<u>OT</u>	<u>C</u>	<u>5:44</u>