

# Lead in Drinking Water – Public and Nonpublic Schools

## **IMPORTANT NOTICE: ELEVATED WATER SAMPLE RESULT(S)** **Marley Elementary 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 11, 2019, thirteen (13) lead water samples were collected from **Marley Elementary School**. Of these lead water samples, none (0) had levels of lead exceeding the action level of 20 parts per billion (ppb) for lead in drinking water in school buildings.

### **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. None

### **NEXT STEPS**

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



**AACPS - Operations Division**  
9034 Ft. Smallwood Road

Tuesday, May 28, 2019

Pasadena, MD 21122

**Certificate of Analysis**  
**FINAL**

**Attention: Chris Williams; Brian Wells**

Report for Lab No: 40105.

Marley ES

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

P.O. Number: PO 9212

Sampling by Martel personnel on April 11, 2019

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION		Sample Date/Time			
40105	000156	109A HS [CC--C]	04/11/2019 05:40			
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:20 BJ	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION		Sample Date/Time			
40105	000157	109A B [CC--C]	04/11/2019 05:40			
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:22 BJ	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION		Sample Date/Time			
40105	000158	109A-BR HS [BR--NC]	04/11/2019 05:40			
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:25 BJ	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION		Sample Date/Time			
40105	000159	108A HS [CC--C]	04/11/2019 05:43			
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:35 BJ	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION		Sample Date/Time			
40105	000160	108A B [CC--C]	04/11/2019 05:43			
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:40 BJ	

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION		Sample Date/Time			
40105	000161	108A-BR HS [BR--NC]	04/11/2019 05:43			
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:40 BJ	



MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
40105	000161	108A-BR HS	[BR--NC]		04/11/2019 05:43
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:43 BJ

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
40105	000162	201A HS	[CC--C]		04/11/2019 05:45
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:45 BJ

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
40105	000163	201A B	[CC--C]		04/11/2019 05:45
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:48 BJ

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
40105	000164	201A-BR HS	[BR--NC]		04/11/2019 05:45
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:50 BJ

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
40105	000165	202A HS	[CC--C]		04/11/2019 05:47
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:53 BJ

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
40105	000166	202A B	[CC--C]		04/11/2019 05:47
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:55 BJ

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION				Sample Date/Time
40105	000167	202A-BR HS	[BR--NC]		04/11/2019 05:47
Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	04/18/2019 18:58 BJ

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**Martel Laboratories JDS Inc.**

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

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**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.

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 HNO<sub>3</sub> Analysis: Lead (EPA 200.8)

Start Date/Time: 4-11-19 5:40 AM End Date/Time: 4-11-19 5:48 AM

Sampler/Relinquished By: [Signature] Received at Martel by: [Signature] Date/Time: 4-11-19 7:25 AM

**Area 1: Additions**

**Marley ES (1162) 715 Cooper Road, Glen Burnie, MD 21060**

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

Martel NO: **40105**

Sample #	Room #	Fixture Type <i>(Sink, Bubbler, Water Fountain, Gooseneck, Ice</i>	Outlet/Kez		Time/notes
			Codes	C or NC?	
40105 156	109A	HS	CC	C	5:40
40105 157	109A	B	CC	C	↓
40105 158	109A-BR	HS	BR	NC	↓
40105 159	108A	HS	CC	C	5:43
40105 160	108A	B	CC	C	↓
40105 161	108A-BR	HS	BR	NC	↓
40105 162	201A	HS	CC	C	5:45
40105 163	201A	B	CC	C	↓
40105 164	201A-BR	HS	BR	NC	↓
40105 165	202A	HS	CC	C	5:47
40105 166	202A	B	CC	C	↓
40105 167	202A-BR	HS	BR	NC	↓

**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](http://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.