

# Lead in Drinking Water – Public and Nonpublic Schools

## **IMPORTANT NOTICE: ELEVATED WATER SAMPLE RESULT(S)** **Corkran Middle 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 October 11, 2019, twenty-nine (29) lead water samples were collected from Corkran Middle School. Of these lead water samples, four (4) had levels 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 Corkran Middle School are as follows:

- Sample #55 Classroom 122 combination bubbler (right) – 74.7ppb
- Sample #56 Classroom 122 combination Gooseneck (center) – 27.5ppb
- Sample #100 Home Economics Sink (window side, center) – 36.3ppb
- Sample #101 Home Economics Sink (window side, right) – 27.2ppb

### **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**

- Sample # 55 will remain off.
- Sample # 56 will have a "Hand Washing Only" sticker applied to it.
- Sample #'s 100, 101 were turned off immediately upon receiving the results.

### **NEXT STEPS**

- Sample # 55 will be removed since it has failed twice.
- Sample #'s 100 and 101 will be replaced and retested.

**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 or Brian Wells* at **443-770-5951**. 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.



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

Monday, January 6, 2020

Pasadena, MD 21122

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

**Attention: Chris Williams; Brian Wells**

*Report for Lab No: 48010.*

*Corkran (MS) 1043)*

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

*P.O. Number: PO 9212*

*Sampling by Martel personnel on October 11, 2019.*

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION						Sample Date/Time
48010	000001	Office---Principals Office: Hand Sink					10/11/2019 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	01/02/2020 19:16 BJ	
MARTEL NO.	CLIENT SAMPLE IDENTIFICATION						Sample Date/Time
48010	000005	Office---Financial Sec. Office: Hand Sink					10/11/2019 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	01/02/2020 19:23 BJ	
MARTEL NO.	CLIENT SAMPLE IDENTIFICATION						Sample Date/Time
48010	000009	Hallway---Hall Fountain (Outside of samples 6-8): Water Fou					10/11/2019 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	01/02/2020 19:26 BJ	
MARTEL NO.	CLIENT SAMPLE IDENTIFICATION						Sample Date/Time
48010	000011	Lounge---Media Work Room Kitchen: Gooseneck					10/11/2019 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	01/02/2020 19:28 BJ	
MARTEL NO.	CLIENT SAMPLE IDENTIFICATION						Sample Date/Time
48010	000012	Hallway---Hall Fountain (across from main entrance): Water					10/11/2019 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	
Lead		<2	ug/l	EPA .200.8	2	01/02/2020 19:31 BJ	
MARTEL NO.	CLIENT SAMPLE IDENTIFICATION						Sample Date/Time
48010	000026	Hallway---Hall Fountain (next to 303): Water Fountain					10/11/2019 05:00
Compound		Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial	



# Certificate of Analysis

MARTEL NO. 48010 000026 CLIENT SAMPLE IDENTIFICATION Hallway---Hall Fountain (next to 303): Water Fountain Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 19:33 BJ

MARTEL NO. 48010 000046 CLIENT SAMPLE IDENTIFICATION Hallway---Hall Fountain (across from café): Water Fountain Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 19:36 BJ

MARTEL NO. 48010 000055 CLIENT SAMPLE IDENTIFICATION Classroom---122: Bubbler (RIGHT) Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	74.7	ug/l*	EPA .200.8	2	01/02/2020 19:38 BJ

MARTEL NO. 48010 000056 CLIENT SAMPLE IDENTIFICATION Classroom---122: Gooseneck (CENTER) Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	27.5	ug/l*	EPA .200.8	2	01/02/2020 19:41 BJ

MARTEL NO. 48010 000058 CLIENT SAMPLE IDENTIFICATION Classroom---123: Bubbler (RIGHT) Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	11.2	ug/l	EPA .200.8	2	01/02/2020 19:43 BJ

MARTEL NO. 48010 000059 CLIENT SAMPLE IDENTIFICATION Classroom---123: Gooseneck (CENTER) Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 19:53 BJ

MARTEL NO. 48010 000062 CLIENT SAMPLE IDENTIFICATION Hallway---Hall Fountain (next to room 124): Water Fountain Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 19:58 BJ

MARTEL NO. 48010 000064 CLIENT SAMPLE IDENTIFICATION Lounge---Teachers Lounge: Hand Sink Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 20:01 BJ



# Certificate of Analysis

MARTEL NO. 48010 000069 CLIENT SAMPLE IDENTIFICATION Cafeteria---Café Fountain: Water Fountain (LEFT) Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 20:03 BJ

MARTEL NO. 48010 000070 CLIENT SAMPLE IDENTIFICATION Cafeteria---Café Fountain: Water Fountain (RIGHT) Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 20:06 BJ

MARTEL NO. 48010 000072 CLIENT SAMPLE IDENTIFICATION Kitchen---Kitchen Tri Sink: Gooseneck (LEFT) Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 20:08 BJ

MARTEL NO. 48010 000073 CLIENT SAMPLE IDENTIFICATION Kitchen---Kitchen Tri Sink: Gooseneck (RIGHT) Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 20:11 BJ

MARTEL NO. 48010 000077 CLIENT SAMPLE IDENTIFICATION Kitchen---Kitchen Tri Sink (left of kitchen bathroom): Goos Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 20:13 BJ

MARTEL NO. 48010 000078 CLIENT SAMPLE IDENTIFICATION Kitchen---Kitchen Tri Sink (left of kitchen bathroom): Goos Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 20:16 BJ

MARTEL NO. 48010 000096 CLIENT SAMPLE IDENTIFICATION Home Economics---314 - Home Ecc (FAC's): Sink (Wall side Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	2.10	ug/l	EPA .200.8	2	01/02/2020 20:18 BJ

MARTEL NO. 48010 000097 CLIENT SAMPLE IDENTIFICATION Home Economics---315 - Home Ecc (FAC's): Sink (Wall side Sample Date/Time 10/11/2019 05:00

Compound	Test Value	Test Unit	Method	Detection Limit	Analysis Date/Time/Initial
Lead	<2	ug/l	EPA .200.8	2	01/02/2020 20:26 BJ



# Certificate of Analysis

MARTEL NO.	CLIENT SAMPLE IDENTIFICATION	Sample Date/Time
48010 000098	Home Economics---316 - Home Ecc (FAC's): Sink (wall side RI)	10/11/2019 05:00
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	4.74 ug/l EPA .200.8 2	01/02/2020 20:33 BJ
48010 000099	Home Economics---317 - Home Ecc (FAC's): Sink (window)	10/11/2019 05:00
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	11.6 ug/l EPA .200.8 2	01/02/2020 20:36 BJ
48010 000100	Home Economics---318 - Home Ecc (FAC's): Sink (window)	10/11/2019 05:00
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	36.3 ug/l* EPA .200.8 2	01/02/2020 20:38 BJ
48010 000101	Home Economics---319 - Home Ecc (FAC's): Sink (window)	10/11/2019 05:00
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	27.2 ug/l* EPA .200.8 2	01/02/2020 20:41 BJ
48010 000103	Nurses Office---Health Room : Hand Sink (LEFT)	10/11/2019 05:00
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	7.64 ug/l EPA .200.8 2	01/02/2020 20:43 BJ
48010 000104	Nurses Office---Health Room Bathroom: Hand Sink	10/11/2019 05:00
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8 2	01/02/2020 20:46 BJ
48010 000122	Locker Room---Girls Locker Room: Water Fountain	10/11/2019 05:00
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	<2 ug/l EPA .200.8 2	01/02/2020 20:48 BJ
48010 000123	Locker Room---Boys Locker Room: Water Fountain	10/11/2019 05:00
Compound	Test Value Test Unit Method Detection Limit	Analysis Date/Time/Initial
Lead	7.91 ug/l EPA .200.8 2	01/02/2020 20:51 BJ



---

**Martel Laboratories JDS Inc.**

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

AACOP1

Page 5 OF 5  
01/06/2020  
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







**Corkran MS (1043)**

**7600 Quarterfield Road, Glen Burnie, MD 21061**

62	Hallway---Hall Fountain (next to room 124)	Water Fountain	DF	C	5:45
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
64	Lounge---Teachers Lounge	Hand Sink	TL	C	5:10
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
69	Cafeteria---Café Fountain	Water Fountain (LEFT)	DF	C	5:01
70	Cafeteria---Café Fountain	Water Fountain (RIGHT)	DF	C	↓
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
72	Kitchen---Kitchen Tri Sink	Gooseneck (LEFT)	KS	C	5:05
73	Kitchen---Kitchen Tri Sink	Gooseneck (RIGHT)	KS	C	↓
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
77	Kitchen---Kitchen Tri Sink (left of kitchen bathroom)	Gooseneck (LEFT)	KS	C	↓
78	Kitchen---Kitchen Tri Sink (left of kitchen bathroom)	Gooseneck (RIGHT)	KS	C	↓
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
96	Home Economics---314 - Home Ecc (FAC's)	Sink (Wall side LEFT)	HE	C	5:10
97	Home Economics---315 - Home Ecc (FAC's)	Sink (Wall side CENTER)	HE	C	↓

Corkran MS (1043)

7600 Quarterfield Road, Glen Burnie, MD 21061

98	Home Economics---316 - Home Ecc (FAC's)	Sink (wall side RIGHT)	HE	C	↓
99	Home Economics---317 - Home Ecc (FAC's)	Sink (window sideLEFT)	HE	C	↓
100	Home Economics---318 - Home Ecc (FAC's)	Sink (window side CENTER)	HE	C	5:15
101	Home Economics---319 - Home Ecc (FAC's)	Sink (window side RIGHT)	HE	C	↓
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
103	Nurses Office---Health Room	Hand Sink (LEFT)	NO	C	↓
104	Nurses Office---Health Room Bathroom	Hand Sink	BS	C	↓
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
DONOTTAKE	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			XXXXXX
122	Locker Room---Girls Locker Room	Water Fountain	DF	C	5:25
123	Locker Room---Boys Locker Room	Water Fountain	DF	C	↓