



# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 632364  
**Client:** Howard County Public School System  
**Address:** 10910 Route 108  
Ellicott City, MD 21042  
**Attention:** Jeff Klenk

**Job Name:** Hammond High School 2022  
**Job Location:** 8800 Guilford Road, Columbia, MD  
21046  
**Job Number:** 13.016  
**P.O. Number:** Not Provided

**Date Submitted:** 01/21/2022  
**Date Analyzed:** 01/28/2022  
**Report Date:** 01/28/2022  
**Date Sampled:** 01/13/2022 - 01/14/2022  
**Person Submitting:** Jeff Klenk  
**Revised:** 01/28/2022 (Revision #1)

## Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Sample Collection Information Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
632364-1	PB267-1 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-2	PB267-2 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-3	PB267-3 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-4	PB267-4 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-5	HHS-6 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-6	HHS-7 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-7	HHS-8 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-8	HHS-9 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-9	HHS-26 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
632364-10	HHS-28 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-11	HHS-30 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
632364-12	HHS-31 First-Draw	01/13/2022 5:10 am	Ice Machine (Stand Alone), Consumption, Locker Room, , Ice Machine, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-13	HHS-32 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	1.6 ug/L	
632364-14	HHS-33 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	2.5 ug/L	



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632364-15	HHS-35 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	14 ug/L	13.8 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632364-16	HHS-36 First-Draw	01/13/2022 5:10 am	Ice Machine (Stand Alone), Consumption, Locker Room, , Ice Machine, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-17	HHS-38 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Office, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	3.2 ug/L	
632364-18	HHS-41 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	2.6 ug/L	
632364-19	HHS-45 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-20	HHS-46 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-21	HHS-47 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-22	HHS-48 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-23	HHS-49 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-24	HHS-50 First-Draw	01/13/2022 5:10 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-25	HHS-1 First-Draw	01/14/2022 5:31 am	Ice Machine (Stand Alone), Consumption, Kitchen, , Ice Machine, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-26	HHS-2 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Kitchen, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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632364-27	HHS-3 First-Draw	01/14/2022 5:31 am	Commercial Kitchen Kettle, Cold (i.e., faucet leading into kettle), Consumption, Kitchen, , Kettle, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-28	HHS-4 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Kitchen, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-29	HHS-6BW First-Draw	01/14/2022 5:31 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Cafeteria, , Bottle Fill Station, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-30	HHS-7BW First-Draw	01/14/2022 5:31 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Cafeteria, , Bottle Fill Station, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-31	HHS-8BW First-Draw	01/14/2022 5:31 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Bottle Fill Station, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-32	HHS-9BW First-Draw	01/14/2022 5:31 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Bottle Fill Station, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-33	HHS-10 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	0.93 ug/L	
632364-34	HHS-11 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-35	HHS-12 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-36	HHS-13 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	
632364-37	HHS-14 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	0.64 ug/L	
632364-38	HHS-15 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	0.75 ug/L	
632364-39	HHS-16 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-40	HHS-17 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	0.83 ug/L	



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632364-41	HHS-18 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Office, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	18 ug/L	17.8 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632364-42	HHS-20 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	1.9 ug/L	
632364-43	HHS-21 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	6.2 ug/L	This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632364-44	HHS-22 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	5.3 ug/L	
632364-45	HHS-23 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	5.5 ug/L	This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632364-46	HHS-24 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	5.4 ug/L	
632364-47	HHS-25 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	5.3 ug/L	
632364-48	HHS-29 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	2.5 ug/L	
632364-49	HHS-30BW First-Draw	01/14/2022 5:31 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Bottle Fill Station, , 1st Floor	ICP	Lead	0.5 ug/L	1.5 ug/L	
632364-50	HHS-31A First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Locker Room, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	0.8 ug/L	0.80 ug/L.



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632364-51	HHS-37 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Office, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-52	HHS-39 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Office, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	10 ug/L	10.4 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632364-53	HHS-40 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Office, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	18 ug/L	18.4 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632364-54	HHS-42 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Office, , Sink, , 1st Floor	ICP	Lead	0.5 ug/L	10 ug/L	10.0 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632364-55	HHS-43 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Office, , Sink, , 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-56	HHS-44 First-Draw	01/14/2022 5:31 am	Faucet, Cold, Consumption, Office, , Sink, , 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632364-57	HHS-46BW First-Draw	01/14/2022 5:31 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Bottle Fill Station, , 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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**Analysis Methods:** Flame AA: APHA SM3111B (1999, 22nd Ed.), Furnace AA: APHA SM3113B (2010, 22nd Ed.), ICP: EPA 200.8 (Rev. 5.4)

**Sample Collector:** Jeff Klenk  
**Certification:**

mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

**Analyst(s):** Jean-Paul Littleton

**Technical Director** George Land

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, AIHA-LAP, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.