



CERTIFICATE OF ANALYSIS

Chain of Custody: 636111
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Mt. Hebron High School
Job Location: 9440 Old Frederick Road, Ellicott City,
MD 21042
Job Number: 13.019
P.O. Number: Not Provided

Date Submitted: 05/13/2022
Date Analyzed: 05/19/2022
Report Date: 05/20/2022
Date Sampled: 05/10/2022 - 05/11/2022
Person Submitting: Jeff Klenk
Revised: 05/23/2022 (Revision #1)

Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
636111-1	MHHS 1	05/11/2022 5:15 am	Faucet, Cold, Consumption, Hallway, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.77 ug/L	
636111-2	MHHS 1A	05/11/2022 5:15 am	Faucet, Cold, Consumption, Hallway, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-3	MHHS 2	05/11/2022 5:15 am	Faucet, Cold, Consumption, Hallway, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
636111-4	MHHS 2A	05/11/2022 5:15 am	Faucet, Cold, Consumption, Hallway, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-5	MHHS 4	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-6	MHHS 5	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.91 ug/L	
636111-7	MHHS 6	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.78 ug/L	
636111-8	MHHS 7	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-9	MHHS 8	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-10	MHHS 9	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
636111-11	MHHS 10	05/11/2022 5:15 am	Faucet, Cold, Consumption, Weight/Training/Fitness Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-12	MHHS 12	05/11/2022 5:15 am	Ice Machine (Stand Alone), Consumption, Locker Room, , Ice Maker, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-13	MHHS 13	05/11/2022 5:15 am	Ice Machine (Stand Alone), Consumption, Locker Room, , Ice Maker, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-14	MHHS 14	05/11/2022 5:15 am	Spigot (with threadings for hose connection), Consumption, Locker Room, , Spigot, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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636111-15	MHHS 15	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Weight/Training/Fitness Room, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-16	MHHS 16	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Weight/Training/Fitness Room, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-17	MHHS 17	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-18	MHHS 18	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-19	MHHS 19	05/11/2022 5:15 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.81 ug/L	
636111-20	MHHS 20	05/11/2022 5:15 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.4 ug/L	
636111-21	MHHS 21	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-22	MHHS 22	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-23	MHHS 24	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-24	MHHS 25	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-25	MHHS 26	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-26	MHHS 27	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-27	MHHS 28	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, Ground Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-28	MHHS 29	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, Ground Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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636111-29	MHHS 30	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-30	MHHS 31	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-31	MHHS 33	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-32	MHHS 32	05/11/2022 5:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-33	MHHS 34	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-34	MHHS 34BW	05/11/2022 5:15 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Bottle Filler, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-35	MHHS 35	05/11/2022 5:15 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-36	MHHS 36	05/11/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-37	MHHS 37	05/11/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-38	MHHS 38	05/11/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-39	MHHS 39	05/11/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-40	MHHS 40	05/11/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-41	MHHS 41	05/11/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.4 ug/L	
636111-42	MHHS 42	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	1.5 ug/L	



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636111-43	MHHS 43	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	1.7 ug/L	
636111-44	MHHS 44	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	0.63 ug/L	
636111-45	MHHS 45	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	0.52 ug/L	
636111-46	MHHS 50	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-47	MHHS 51	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-48	MHHS 52	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-49	MHHS 53	05/10/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-50	MHHS 54	05/11/2022 5:15 am	Faucet, Cold, Consumption, Concessions, , Sink, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	2.1 ug/L	
636111-51	MHHS 55	05/11/2022 5:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	0.69 ug/L	
636111-52	MHHS 57	05/11/2022 5:15 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	1.4 ug/L	
636111-53	MHHS 58	05/11/2022 5:15 am	Spigot (with threadings for hose connection), Consumption, Outdoors, , Spigot, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	20 ug/L	19.9 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.



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636111-54	MHHS 59	05/11/2022 5:15 am	Ice Machine (Stand Alone), Consumption, Concessions, , Ice Maker, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636111-55	MHHS 60	05/11/2022 5:15 am	Commercial Kitchen Kettle, Cold (i.e., faucet leading into kettle), Consumption, Kitchen, , Kettle, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.97 ug/L	
636111-56	MHHS 61	05/11/2022 5:15 am	Faucet, Cold, Consumption, Concessions, , Sink, Main Bldg,		ICP	Lead	0.5 ug/L	3.3 ug/L	

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: Shakia Dawkins & Brittany Mass
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

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