



CERTIFICATE OF ANALYSIS

Chain of Custody: 640009
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Murray Hill Middle School
Job Location: 9989 Winter Sun Road, Laurel, MD
20723
Job Number: 13.059
P.O. Number: Not Provided

Date Submitted: 09/30/2022
Date Analyzed: 10/05/2022
Report Date: 10/07/2022
Date Sampled: 09/29/2022 - 09/30/2022
Person Submitting: Jeff Klenk

Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Sample Collection Information		Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
		Date/Time	Location					
640009-1	MHMS 1 Flush	09/29/2022 6:34 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	9.3 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
640009-2	MHMS 2 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
640009-3	MHMS 3 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
640009-4	MHMS 4 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.9 ug/L	
640009-5	MHMS 5 First-Draw	09/29/2022 6:34 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	
640009-6	MHMS 7 First-Draw	09/29/2022 6:34 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-7	MHMS 7BW First-Draw	09/30/2022 6:15 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Chiller Style, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-8	MHMS 8 First-Draw	09/29/2022 6:34 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-9	MHMS 8BW First-Draw	09/30/2022 6:15 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Chiller Style, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-10	MHMS 9 First-Draw	09/29/2022 6:34 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	
640009-11	MHMS 11 First-Draw	09/29/2022 6:34 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	



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640009-12	MHMS 14 First-Draw	09/29/2022 6:34 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	
640009-13	MHMS 16 First-Draw	09/29/2022 6:34 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	
640009-14	MHMS 18 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-15	MHMS 19 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-16	MHMS 20 First-Draw	09/29/2022 6:34 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	
640009-17	MHMS 21 First-Draw	09/29/2022 6:34 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-18	MHMS 21BW First-Draw	09/30/2022 6:15 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Hallway, , Chiller Style, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-19	MHMS 22 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-20	MHMS 23 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-21	MHMS 24 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640009-22	MHMS 25 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	0.54 ug/L	
640009-23	MHMS 26 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	1.4 ug/L	
640009-24	MHMS 28 First-Draw	09/29/2022 6:34 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	
640009-25	MHMS 31 First-Draw	09/29/2022 6:34 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	



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640009-26	MHMS 32 First-Draw	09/29/2022 6:34 am	Faucet, Cold, Consumption, Media Center, , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
640009-27	MHMS 33 First-Draw	09/29/2022 6:34 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	

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 & Jackson Holtzman
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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