



CERTIFICATE OF ANALYSIS

Chain of Custody: 640785
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Elkridge Landing Middle School
Job Location: 7085 Montgomery Road, Elkridge, MD
21075
Job Number: 13.054
P.O. Number: Not Provided

Date Submitted: 10/21/2022
Date Analyzed: 10/31/2022
Report Date: 10/28/2022
Date Sampled: 10/19/2022 - 10/20/2022
Person Submitting: Jeff Klenk
Revised: 10/31/2022 (Revision #1)

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					
640785-1	ELMS 2 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	5.7 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
640785-2	ELMS 3 First-Draw	10/19/2022 6:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Office, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640785-3	ELMS 4 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.71 ug/L	
640785-4	ELMS 5 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
640785-5	ELMS 6 Flush	10/20/2022 6:45 am	Commercial Kitchen Kettle, Cold (i.e., faucet leading into kettle), Consumption, Kitchen, , Kettle, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
640785-6	ELMS 7 First-Draw	10/20/2022 6:45 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
640785-7	ELMS 8 First-Draw	10/19/2022 6:00 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640785-8	ELMS 8BW First-Draw	10/20/2022 6:45 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Cafeteria, , Chiller Style, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.5 ug/L	0.50 ug/L.
640785-9	ELMS 9 First-Draw	10/19/2022 6:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
640785-10	ELMS 10 First-Draw	10/19/2022 6:00 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	
640785-11	ELMS 12 First-Draw	10/19/2022 6:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.64 ug/L	



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640785-12	ELMS 13 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.78 ug/L	
640785-13	ELMS 14 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	13 ug/L	12.5 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
640785-14	ELMS 15 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	8.6 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
640785-15	ELMS 16 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	11 ug/L	10.8 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
640785-16	ELMS 17 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.1 ug/L	



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640785-17	ELMS 18 First-Draw	10/19/2022 6:00 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	9.5 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
640785-18	ELMS 20 First-Draw	10/19/2022 6:00 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	
640785-19	ELMS 23 First-Draw	10/19/2022 6:00 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	
640785-20	ELMS 27F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.2 ug/L	
640785-21	ELMS 28F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.6 ug/L	
640785-22	ELMS 29 First-Draw	10/19/2022 6:00 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	
640785-23	ELMS 31F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	0.98 ug/L	
640785-24	ELMS 32 First-Draw	10/19/2022 6:00 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	
640785-25	ELMS 33F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	3.6 ug/L	
640785-26	ELMS 34F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	1.6 ug/L	
640785-27	ELMS 35 First-Draw	10/19/2022 6:00 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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640785-28	ELMS 36F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	2.9 ug/L	
640785-29	ELMS 37F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	2.4 ug/L	
640785-30	ELMS 38F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	12 ug/L	11.7 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
640785-31	ELMS 39F First-Draw	10/19/2022 6:00 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	1.9 ug/L	
640785-32	ELMS 41 First-Draw	10/19/2022 6:00 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	
640785-33	ELMS 43 First-Draw	10/20/2022 6:45 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.58 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 & Shakia Dawkins
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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