



CERTIFICATE OF ANALYSIS

Chain of Custody: 642199
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Ducketts Lane Elementary School
Job Location: 6501 Ducketts Lane, Elkridge, MD
21075
Job Number: 13.086
P.O. Number: Not Provided

Date Submitted: 12/09/2022
Date Analyzed: 12/17/2022
Report Date: 12/20/2022
Date Sampled: 12/06/2022 - 12/07/2022
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					
642199-1	DLES 1F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.3 ug/L	
642199-2	DLES 2F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-3	DLES 3F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-4	DLES 4F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
642199-5	DLES 5F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.72 ug/L	
642199-6	DLES 6F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.69 ug/L	
642199-7	DLES 7 First-Draw	12/06/2022 6:05 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-8	DLES 8 First-Draw	12/06/2022 6:05 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-9	DLES 9 First-Draw	12/06/2022 6:05 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.64 ug/L	
642199-10	DLES 10F First-Draw	12/07/2022 7:10 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Nurse's Office/Health Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-11	DLES 10S First-Draw	12/06/2022 6:05 am	Combination Sink - Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-12	DLES 11 First-Draw	12/06/2022 6:05 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	
642199-13	DLES 12 First-Draw	12/06/2022 6:05 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	
642199-14	DLES 13 First-Draw	12/06/2022 6:05 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	



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642199-15	DLES 13BW First-Draw	12/07/2022 7:10 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	
642199-16	DLES 14 First-Draw	12/06/2022 6:05 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	
642199-17	DLES 15F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-18	DLES 16F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-19	DLES 17F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-20	DLES 18F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-21	DLES 19F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-22	DLES 20F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-23	DLES 21F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-24	DLES 22F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-25	DLES 23F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-26	DLES 24F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-27	DLES 25F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-28	DLES 26F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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642199-29	DLES 27F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-30	DLES 28F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-31	DLES 29F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.73 ug/L	
642199-32	DLES 30F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-33	DLES 31F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-34	DLES 32F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-35	DLES 33F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-36	DLES 34F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-37	DLES 35F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-38	DLES 36F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-39	DLES 37F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-40	DLES 38 First-Draw	12/06/2022 6:05 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	
642199-41	DLES 39 First-Draw	12/06/2022 6:05 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	
642199-42	DLES 40 First-Draw	12/06/2022 6:05 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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642199-43	DLES 41 First-Draw	12/06/2022 6:05 am	Faucet, Cold, Consumption, Media Center, , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	
642199-44	DLES 42F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-45	DLES 43F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-46	DLES 44F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-47	DLES 45F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-48	DLES 46F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-49	DLES 47F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-50	DLES 48F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-51	DLES 49F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-52	DLES 50 First-Draw	12/06/2022 6:05 am	Ice Machine (Stand Alone), Consumption, Kitchen, , Ice Maker, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642199-53	DLES 51 First-Draw	12/06/2022 6:05 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.67 ug/L	
642199-54	DLES 53F First-Draw	12/06/2022 6:05 am	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st 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)

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

Analyst(s): Jean-Paul Littleton

Sample Collector: Jeff Klenk (10F & 13BW) & Jackson Holtzman (all others)
Certification:

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

Technical Director Jean-Paul Littleton

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