



CERTIFICATE OF ANALYSIS

Chain of Custody: 642587
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Reservoir High School
Job Location: 11550 Scaggsville Road, Fulton, MD
20759
Job Number: 13.077
P.O. Number: Not Provided

Date Submitted: 12/22/2022
Date Analyzed: 01/08/2023
Report Date: 01/10/2023
Date Sampled: 12/21/2022 & 12/22/2022 JK
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					
642587-1	REHS 1 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.2 ug/L	
642587-2	REHS 2 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.76 ug/L	
642587-3	REHS 3 First-Draw	12/21/2022 5:32 am	Faucet, Cold , Consumption, Kitchen, , Sink, Main Bldg, 1st Floor kitchen kettle JK	ICP	Lead	0.5 ug/L	17 ug/L	16.8 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
642587-4	REHS 4 First-Draw	12/21/2022 5:32 am	Ice Machine (Stand Alone), Consumption, Kitchen, , Ice Maker, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-5	REHS 5 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.3 ug/L	
642587-6	REHS 6 First-Draw	12/21/2022 5:32 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	
642587-7	REHS 7 First-Draw	12/21/2022 5:32 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	
642587-8	REHS 8 First-Draw	12/21/2022 5:32 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	
642587-9	REHS 9 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.78 ug/L	
642587-10	REHS 10F First-Draw	12/22/2022 6:15 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	
642587-11	REHS 10S First-Draw	12/21/2022 5:32 am	Combination Sink - Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	



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642587-12	REHS 11 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.55 ug/L	
642587-13	REHS 12 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.78 ug/L	
642587-14	REHS 13 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
642587-15	REHS 14 First-Draw	12/21/2022 5:32 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	
642587-16	REHS 15 First-Draw	12/21/2022 5:32 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	
642587-17	REHS 16 First-Draw	12/21/2022 5:32 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	
642587-18	REHS 17 First-Draw	12/21/2022 5:32 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	
642587-19	REHS 18 First-Draw	12/21/2022 5:32 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	
642587-20	REHS 19 First-Draw	12/21/2022 5:32 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	
642587-21	REHS 20 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
642587-22	REHS 21 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
642587-23	REHS 22 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Concessions, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.57 ug/L	
642587-24	REHS 23 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.63 ug/L	
642587-25	REHS 24 First-Draw	12/21/2022 5:32 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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642587-26	REHS 25 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.61 ug/L	
642587-27	REHS 26 First-Draw	12/21/2022 5:32 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	
642587-28	REHS 27 First-Draw 12/21/2022 5:32am	12/21/2022 5:32 am 12/22/2022 6:15 am jk	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	
642587-29	REHS 27BW First-Draw 12/22/2022 6:15 am	12/21/2022 5:32 am 12/22/2022 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	
642587-30	REHS 28 First-Draw	12/21/2022 5:32 am	Ice Machine (Stand Alone), Consumption, Weight/Training/Fitness Room, , Ice Maker, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-31	REHS 32 First-Draw	12/21/2022 5:32 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	
642587-32	REHS 33 First-Draw	12/21/2022 5:32 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	
642587-33	REHS 37 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-34	REHS 41 First-Draw	12/21/2022 5:32 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	
642587-35	REHS 42 First-Draw	12/21/2022 5:32 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	
642587-36	REHS 44 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
642587-37	REHS 45 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	1.1 ug/L	
642587-38	REHS 46 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	0.86 ug/L	
642587-39	REHS 47 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor		ICP	Lead	0.5 ug/L	0.95 ug/L	



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642587-40	REHS 48 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
642587-41	REHS 49 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	0.88 ug/L	
642587-42	REHS 50 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.3 ug/L	
642587-43	REHS 51 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	
642587-44	REHS 52 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-45	REHS 53 First-Draw	12/21/2022 5:32 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	
642587-46	REHS 56 First-Draw	12/21/2022 5:32 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	
642587-47	REHS 57 First-Draw	12/21/2022 5:32 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	
642587-48	REHS 58 First-Draw	12/21/2022 5:32 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	
642587-49	REHS 58BW First-Draw	12/22/2022 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	
642587-50	REHS 59 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Media Center, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-51	REHS 60F First-Draw	12/21/2022 5:32 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 2nd Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
642587-52	REHS 62 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 3rd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-53	REHS 63 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 3rd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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642587-54	REHS 65 First-Draw	12/21/2022 5:32 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 3rd Floor	ICP	Lead	0.5 ug/L	0.57 ug/L	
642587-55	REHS 66 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 3rd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-56	REHS 68 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 3rd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-57	REHS 69 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 3rd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-58	REHS 70 First-Draw	12/21/2022 5:32 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 3rd Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
642587-59	REHS 73 First-Draw	12/21/2022 5:32 am	Spigot (with threadings for hose connection), Consumption, Weight/Training/Fitness Room, , Hose Bib, Main Bldg, 1st 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 (10S, 27BW, 58BW) & Jackson Holtzman (all others)
Certification:

mg/L = Parts Per Million (ppm), N/A = Not Applicable, ug/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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