



CERTIFICATE OF ANALYSIS

Chain of Custody: 635040
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Oakland Mills High School
Job Location: 9410 Kilimanjaro Road, Columbia, MD
21045
Job Number: 13.002
P.O. Number: Not Provided

Date Submitted: 04/11/2022
Date Analyzed: 05/05/2022
Report Date: 05/06/2022
Date Sampled: 04/07/2022 - 04/29/2022
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					
635040-1	OMHS 1A First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.2 ug/L	
635040-2	OMHS 1B Flush	04/08/2022 5:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.4 ug/L	
635040-3	OMHS 2 Flush	04/08/2022 5:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.3 ug/L	
635040-4	OMHS 3 First-Draw	04/08/2022 5:15 am	Ice Machine (Stand Alone), Consumption, Kitchen, , Ice Maker, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635040-5	OMHS 4A First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.4 ug/L	
635040-6	OMHS 4B Flush	04/08/2022 5:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
635040-7	OMHS 5 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.8 ug/L	
635040-8	OMHS 6 First-Draw	04/07/2022 5:12 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	
635040-9	OMHS 7 First-Draw	04/07/2022 5:12 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	
635040-10	OMHS 8 First-Draw	04/07/2022 5:12 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	
635040-11	OMHS 9 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Concessions, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.73 ug/L	
635040-12	OMHS 10 First-Draw	04/07/2022 5:12 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	
635040-13	OMHS 10BW First-Draw	04/08/2022 5:15 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Bottle Filler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635040-14	OMHS 11 First-Draw	04/07/2022 5:12 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	



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635040-15	OMHS 13 First-Draw	04/07/2022 5:12 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	
635040-16	OMHS 14 First-Draw	04/07/2022 5:12 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L
635040-17	OMHS 15 First-Draw	04/07/2022 5:12 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.58 ug/L	
635040-18	OMHS 16 First-Draw	04/07/2022 5:12 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	
635040-19	OMHS 16BW First-Draw	04/08/2022 5:15 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Bottle Filler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635040-20	OMHS 17 First-Draw	04/07/2022 5:12 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	
635040-21	OMHS 18 First-Draw	04/08/2022 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	
635040-22	OMHS 18A First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Locker Room, , Spigot, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.4 ug/L	
635040-23	OMHS 19 First-Draw	04/07/2022 5:12 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Weight/Training/Fitness Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.58 ug/L	
635040-24	OMHS 20 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.7 ug/L	
635040-25	OMHS 21 First-Draw	04/07/2022 5:12 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	
635040-26	OMHS 22F First-Draw	04/07/2022 5:12 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.3 ug/L	
635040-27	OMHS 22S First-Draw	04/08/2022 5:15 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.4 ug/L	
635040-28	OMHS 23 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.1 ug/L	



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635040-29	OMHS 24 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
635040-30	OMHS 25 First-Draw	04/07/2022 5:12 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	
635040-31	OMHS 27 First-Draw	04/07/2022 5:12 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	14 ug/L	14.3 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
635040-32	OMHS 30 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.6 ug/L	
635040-33	OMHS 33 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3 ug/L	3.0 ug/L
635040-34	OMHS 34 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	8 ug/L	8.0 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
635040-35	OMHS 35 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.56 ug/L	
635040-36	OMHS 36 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.4 ug/L	



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635040-37	OMHS 38 First-Draw	04/07/2022 5:12 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	6.7 ug/L	6.7 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
635040-38	OMHS 44 First-Draw	04/07/2022 5:12 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	
635040-39	OMHS 45 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.73 ug/L	
635040-40	OMHS 49 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.1 ug/L	
635040-41	OMHS 50 First-Draw	04/07/2022 5:12 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.9 ug/L	
635040-42	OMHS 53 First-Draw	04/07/2022 5:12 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	
635040-43	OMHS 52 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.5 ug/L	
635040-44	OMHS 54 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.57 ug/L	



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635040-45	OMHS 56 First-Draw	04/08/2022 5:15 am	Faucet, Cold, Consumption, Concessions, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	5.7 ug/L	5.7 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
635040-46	OMHS 12A First-Draw	04/29/2022 6:12 am	Spigot (with threadings for hose connection), Consumption, Locker Room, , Hose Bib, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
635040-47	OMHS 28 First-Draw	04/29/2022 6:12 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
635040-48	OMHS 29 First-Draw	04/29/2022 6:12 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.8 ug/L	
635040-49	OMHS 32 First-Draw	04/29/2022 6:12 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.75 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: Daniel Wooddell-Tharusha Mahamalage-Goutam Tele/GCI & Jeff Klenk/HCPSS
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

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, AIHA-LAP, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.