



CERTIFICATE OF ANALYSIS

Chain of Custody: 633079
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Centennial Lane Elementary School
Job Location: 3825 Centennial Lane, Ellicott City,
MD 21042
Job Number: 13.005
P.O. Number: Not Provided

Date Submitted: 02/18/2022
Date Analyzed: 02/22/2022
Report Date: 02/23/2022
Date Sampled: 02/15/2022 - 02/16/2022
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
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633079-1	CLES-1 Flush	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.5 ug/L	
633079-2	CLES-2 Flush	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	4.9 ug/L	
633079-3	CLES-3 First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.4 ug/L	
633079-4	CLES-4F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.4 ug/L	
633079-5	CLES-4S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	4.4 ug/L	
633079-6	CLES-5F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.6 ug/L	
633079-7	CLES-5S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2 ug/L	2.0 ug/L.
633079-8	CLES-6 First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-9	CLES-7 First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-10	CLES-8 First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-11	CLES-9F First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-12	CLES-10S First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.2 ug/L	
633079-13	CLES-11S First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-14	CLES-12F First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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633079-15	CLES-13F First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-16	CLES-14S First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-17	CLES-15S First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-18	CLES-16F First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-19	CLES-17 First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.6 ug/L	
633079-20	CLES-18F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.2 ug/L	
633079-21	CLES-18S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
633079-22	CLES-19F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
633079-23	CLES-19S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.4 ug/L	
633079-24	CLES-20F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
633079-25	CLES-20S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
633079-26	CLES-21F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-27	CLES-21S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.4 ug/L	
633079-28	CLES-22F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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633079-29	CLES-22S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1 ug/L	1.1 ug/L.
633079-30	CLES-23F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-31	CLES-23S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
633079-32	CLES-24F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
633079-33	CLES-24S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1 ug/L	1.0 ug/L.
633079-34	CLES-25F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
633079-35	CLES-25S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1 ug/L	1.0 ug/L.
633079-36	CLES-26F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.3 ug/L	
633079-37	CLES-26S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
633079-38	CLES-27F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
633079-39	CLES-27S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.4 ug/L	
633079-40	CLES-28F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.2 ug/L	
633079-41	CLES-28S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.6 ug/L	
633079-42	CLES-29 First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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633079-43	CLES-30 First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-44	CLES-31 First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-45	CLES-32F First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-46	CLES-33S First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.5 ug/L	
633079-47	CLES-34S First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.2 ug/L	
633079-48	CLES-35F First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-49	CLES-36 First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Office, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1 ug/L	1.0 ug/L.
633079-50	CLES-37F First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-51	CLES-38S First-Draw	02/16/2022 5:28 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	2.3 ug/L	
633079-52	CLES-39S First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-53	CLES-40F First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-54	CLES-41 First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-55	CLES-42 First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-56	CLES-43F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Nurse's Office/Health Room, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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633079-57	CLES-43S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.6 ug/L	
633079-58	CLES-44F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-59	CLES-44S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.4 ug/L	
633079-60	CLES-45F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-61	CLES-45S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L	
633079-62	CLES-46 First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-63	CLES-48 First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-64	CLES-49 First-Draw	02/15/2022 5:20 pm	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-65	CLES-50F First-Draw	02/15/2022 5:20 pm	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.8 ug/L	
633079-66	CLES-50S First-Draw	02/16/2022 5:28 pm	Combination Sink - Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.2 ug/L	
633079-67	CLES-51 First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Office, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	< 1 ug/L	
633079-68	CLES-53 First-Draw	02/16/2022 5:28 pm	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	3.4 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 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): Nida McGarvey									

Technical Director George Land

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.