



CERTIFICATE OF ANALYSIS

Chain of Custody: 630997
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Running Brook Elementary School
Job Location: 5215 W Running Brook Road,
Columbia, MD 21044
Job Number: 13.066
P.O. Number: Not Provided

Date Submitted: 11/12/2021
Date Analyzed: 11/18/2021
Report Date: 11/19/2021
Date Sampled: 11/09/2021 - 11/10/2021
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					
630997-1	RBES 1: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-2	RBES 2: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-3	RBES 6F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-4	RBES 7: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-5	RBES 8: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-6	RBES 10F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-7	RBES 11F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-8	RBES 13: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-9	RBES 14: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-10	RBES 15F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-11	RBES 16F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-12	RBES 17F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-13	RBES 18F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-14	RBES 20F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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630997-15	RBES 21F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-16	RBES 22F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	0.72 ug/L	
630997-17	RBES 23F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-18	RBES 24: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-19	RBES 25: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-20	RBES 26F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-21	RBES 27F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-22	RBES 28F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-23	RBES 29F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-24	RBES 32F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-25	RBES 33: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-26	RBES 34: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-27	RBES 35F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-28	RBES 36F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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630997-29	RBES 37F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-30	RBES 38F: First-Draw	11/09/2021 5:07 am	Drinking Water Fountain - Bubbler Style, Consumption, Classroom, , Fountain, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-31	RBES 3: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Kitchen, , Sink, ,	ICP	Lead	0.5 ug/L	0.59 ug/L	
630997-32	RBES 4: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, ,	ICP	Lead	0.5 ug/L	0.53 ug/L	
630997-33	RBES 5: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-34	RBES 6S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-35	RBES 7BW: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-36	RBES 9: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-37	RBES 10S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-38	RBES 11S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-39	RBES 12: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-40	RBES 15S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-41	RBES 16S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-42	RBES 17S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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630997-43	RBES 18S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-44	RBES 19: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	24 ug/L	24.4 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
630997-45	RBES 20S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	0.59 ug/L	
630997-46	RBES 21S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	0.59 ug/L	
630997-47	RBES 22S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-48	RBES 23S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-49	RBES 26S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	0.73 ug/L	
630997-50	RBES 27S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	0.59 ug/L	
630997-51	RBES 28S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-52	RBES 29S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	0.57 ug/L	
630997-53	RBES 30: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Media Center, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-54	RBES 31: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-55	RBES 32S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
630997-56	RBES 35S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-57	RBES 36S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-58	RBES 33BW: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-59	RBES 37S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
630997-60	RBES 38S: First-Draw	11/10/2021 5:43 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	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
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

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.