

CERTIFICATE OF ANALYSIS

Maryland Water Quality Lab #262W

Chain of Custody: 652923

Job Name: Running Brook Elementary

Date Submitted:

11/17/2023

NY ELAP

Client: H

Howard County Public School System

School **Job Location:** 5215 W Running Brook

Date Analyzed:

11/26/2023

Address:

10910 Route 108 Ellicott City

Job Number: 13.066

Report Date:

11/28/2023

Maryland 21042
Attention: Christopher Madden

P.O. Number: Not Provided

Date Sampled: Person Submitting:

11/17/2023 John D. Farmer, III

Summary of Drinking Water Analysis for Metals

Road, Columbia, MD 21044

	Summary of Drinking Water Analysis for Metals								
AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments	
652923-1	25: RBES-1 First- Draw	11/17/2023 5:26:00 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.1 ug/L		
652923-2	26: RBES-2 First- Draw	11/17/2023 5:27:00 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-3	24: RBES-3 First- Draw	11/17/2023 5:25:00 AM	Faucet, Cold, Yes (= Consumption), Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	9.2 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.	
652923-4	23: RBES-4 First- Draw	11/17/2023 5:24:00 AM	Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-5	21: RBES-6F First- Draw	11/17/2023 5:22:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-6	20: RBES-7F First- Draw	11/17/2023 5:21:00 AM	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-7	19: RBES-8 First- Draw	11/17/2023 5:20:00 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-8	18: RBES-10F First- Draw	11/17/2023 5:19:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-9	17: RBES-11F First- Draw	11/17/2023 5:19:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-10	16: RBES-13 First- Draw	11/17/2023 5:18:00 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-11	15: RBES-14 First- Draw	11/17/2023 5:18:00 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		
652923-12	13: RBES-15F First- Draw	11/17/2023 5:16:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L		



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11/26/2023

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Report Date: 11/28/2023

Maryland 21042 Christopher Madden

P.O. Number: Not Provided

Date Sampled: 11/17/2023
Person Submitting: John D. Farmer, III

Summary of Drinking Water Analysis for Metals

Client Sample	Date/Time	Location	Analysis -	Sample	Reporting	Final	Comments
Number			Туре	Analyte	Limit	Result	
12: RBES-16F First- Draw	11/17/2023 5:15:00 AM						
			Furnace AA	Lead	1 ug/L	<1 ug/L	
11: RBES-17F First- Draw	11/17/2023 5:15:00 AM						
			Furnace AA	Lead	1 ug/L	<1 ug/L	
		<u> </u>					
14: RBES-18F First- Draw	11/17/2023 5:17:00 AM						
			Furnace AA	Lead	1 ug/L	<1 ug/L	
		Bubbler, Main Bldg, 1st Floor					
		Bottle Filler/Drinking Fountain Combo Unit -	Furnace AA	Lead	1 ug/L	<1 ug/L	
10: RBES-20F First-	11/17/2023 5:14:00 AM	Fountain - Bubbler Style (Non-Refrigerated), Yes (=					
Draw		Consumption), Hallway, , Bubbler, Main Bldg, 1st					
		Floor					
9: RBES-21F First- Draw	11/17/2023 5:13:00 AM	Combination Sink - Fountain - Bubbler Style (Non-	Furnace AA	Lead	1 ug/L	<1 ug/L	
		Refrigerated), Yes (= Consumption), Classroom, ,					
		Bubbler, Main Bldg, 1st Floor					
8: RBES-22F First- Draw	11/17/2023 5:12:00 AM	Combination Sink - Fountain - Bubbler Style (Non-	Furnace AA	Lead	1 ug/L	<1 ug/L	
		Refrigerated), Yes (= Consumption), Classroom, ,					
		Bubbler, Main Bldg, 1st Floor					
6: RBES-24 First- Draw	11/17/2023 5:09:00 AM	Drinking Water Fountain - Cooler/Chiller Style	Furnace AA	Lead	1 ug/L	<1 ug/L	
		(Refrigerated), Yes (= Consumption), Hallway, ,					
		Fountain, Main Bldg, 1st Floor					
7: RBES-25 First- Draw	11/17/2023 5:10:00 AM	Drinking Water Fountain - Cooler/Chiller Style	Furnace AA		1 ug/L	<1 ug/L	
		(Refrigerated), Yes (= Consumption), Hallway, ,		Lead			
		Fountain, Main Bldg, 1st Floor					
5: RBES-26F First- Draw	11/17/2023 5:08:00 AM	-	Furnace AA	Lead	1 ug/L	<1 ug/L	
4: RBES-27F First- Draw	- 11/17/2023 5:07:00 AM	Combination Sink - Fountain - Bubbler Style (Non-	Furnace AA	A Lead	1 ug/L	<1 ug/L	
		, ,					
2. DDEC 20F F:		Table (Non					
3: RBES-28F First-	11/17/2023 5:06:00 AM	Refrigerated), Yes (= Consumption), Classroom, ,	Furnace AA	Lead	1 ug/L	<1 ug/L	
	Number 12: RBES-16F First-Draw 11: RBES-17F First-Draw 14: RBES-18F First-Draw 10: RBES-20F First-Draw 9: RBES-21F First-Draw 8: RBES-22F First-Draw 6: RBES-24 First-Draw 7: RBES-25 First-Draw 5: RBES-26F First-Draw 4: RBES-27F First-Draw	Number 12: RBES-16F First-Draw 11/17/2023 5:15:00 AM 11: RBES-17F First-Draw 11/17/2023 5:15:00 AM 14: RBES-18F First-Draw 11/17/2023 5:17:00 AM 10: RBES-20F First-Draw 11/17/2023 5:14:00 AM 8: RBES-21F First-Draw 11/17/2023 5:13:00 AM 8: RBES-22F First-Draw 11/17/2023 5:12:00 AM 6: RBES-24 First-Draw 11/17/2023 5:09:00 AM 7: RBES-25 First-Draw 11/17/2023 5:10:00 AM 5: RBES-26F First-Draw 11/17/2023 5:08:00 AM 4: RBES-27F First-Draw 11/17/2023 5:07:00 AM	Number 12: RBES-16F First-Draw 11/17/2023 5:15:00 AM 11: RBES-17F First-Draw 11/17/2023 5:15:00 AM 11/17/2023 5:17:00 AM 11/17/2023	NumberType12: RBES-16F First-Draw11/17/2023 5:15:00 AMCombination Sink - Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom,, Bubbler, Main Bldg, 1st FloorFurnace AA11: RBES-17F First-Draw11/17/2023 5:15:00 AMCombination Sink - Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom,, Bubbler, Main Bldg, 1st FloorFurnace AA14: RBES-18F First-Draw11/17/2023 5:17:00 AMRefrigerated), Yes (= Consumption), Classroom,, Bubbler, Main Bldg, 1st FloorFurnace AA10: RBES-20F First-Draw11/17/2023 5:14:00 AMRefrigerated), Yes (= Consumption), Classroom,, Bubbler, Main Bldg, 1st FloorFurnace AA9: RBES-21F First-Draw11/17/2023 5:13:00 AMRefrigerated), Yes (= Consumption), Classroom,, Bubbler, Main Bldg, 1st FloorFurnace AA8: RBES-22F First-Draw11/17/2023 5:12:00 AMRefrigerated), Yes (= Consumption), Classroom,, Bubbler, Main Bldg, 1st FloorFurnace AA6: RBES-24 First-Draw11/17/2023 5:09:00 AMRefrigerated), Yes (= Consumption), Classroom,, Bubbler, Main Bldg, 1st FloorFurnace AA7: RBES-25 First-Draw11/17/2023 5:09:00 AMPrinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway,, Furnace AAFurnace AA5: RBES-26F First-Draw11/17/2023 5:08:00 AMPrinking Water Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Hallway,, Furnace AAFurnace AA6: RBES-27F First-Draw11/17/2023 5:08:00 AMPrinking Water Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom,, Bubbler, Main Bldg, 1st Floor6: RBES-27F First-Draw11/17/2023 5:08:00 AMPrink	Number 12: RBES-16F First-Draw 11/17/2023 5:15:00 AM Refrigerated), Yes (= Consumption), Classroom, Bubbler Style (Non-Refrigerated), Yes (= Consumption), Hallway, Bubbler, Main Bldg, 1st Floor 9: RBES-20F First-Draw 11/17/2023 5:13:00 AM Refrigerated), Yes (= Consumption), Classroom, Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom, Bubbler, Main Bldg, 1st Floor 8: RBES-22F First-Draw 11/17/2023 5:12:00 AM Refrigerated), Yes (= Consumption), Classroom, Bubbler, Main Bldg, 1st Floor 6: RBES-24 First-Draw 11/17/2023 5:09:00 AM (Refrigerated), Yes (= Consumption), Hallway, Furnace AA Lead 11/17/2023 5:09:00 AM (Refrigerated), Yes (= Consumption), Hallway, Furnace AA Lead 7: RBES-25 First-Draw 11/17/2023 5:10:00 AM (Refrigerated), Yes (= Consumption), Hallway, Furnace AA Lead Pornaking Water Fountain - Cooler/Chiller Style (Non-Refrigerated), Yes (= Consumption), Hallway, Furnace AA Lead 11/17/2023 5:10:00 AM (Refrigerated), Yes (= Consumption), Hallway, Furnace AA Lead 11/17/2023 5:08:00 AM Refrigerated), Yes (= Consumption), Hallway, Furnace AA Lead 11/17/2023 5:08:00 AM Refrigerated), Yes (= Consumption), Hallway, Furnace AA Lead 11/17/2023 5:08:00 AM Refrigerated), Yes (= Consumption), Classroom, Furnace AA Lead 11/17/2023 5:08:00 AM Refrigerated), Yes (= Consumption), Classroom, Furnace AA Lead 11/17/2023 5:08:00 AM Refrigerated), Yes (= Consumption), Classroom, Furnace AA Lead 11/17/2023 5:0	Number Type Name Name	Number



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School **Job Location:** 5215 W Running Brook

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10910 Route 108 Ellicott City

Road, Columbia, MD 21044 **Job Number:** 13.066

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Maryland 21042
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Date Sampled:

11/17/2023

Person Submitting: John D. F

John D. Farmer, III

Summary of Drinking Water Analysis for Metals

AMA Sample	Client Sample	Date/Time	Location Summary of Difficulty Water Affair	Analysis	Sample	Reporting	Final	Comments
Number	Number			Туре	Analyte	Limit	Result	
652923-24	2: RBES-29F First- Draw	11/17/2023 5:05:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
652923-25	22: RBES-30 First- Draw	11/17/2023 5:23:00 AM	Faucet, Cold, Yes (= Consumption), Office, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.7 ug/L	
652923-26	1: RBES-31 First Draw	11/17/2023 5:04:00 AM	Faucet, Cold, Yes (= Consumption), Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
652923-27	31: RBES-32F First- Draw	11/17/2023 5:34:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
652923-28	29: RBES-33 First- Draw	11/17/2023 5:32:00 AM	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
652923-29	30: RBES-34 First- Draw	11/17/2023 5:33:00 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Fountain, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
652923-30	28: RBES-35F First- Draw	11/17/2023 5:32:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
652923-31	27: RBES-36F First- Draw	11/17/2023 5:31:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
652923-32	33: RBES-37F First- Draw	11/17/2023 5:36:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
652923-33	32: RBES-38F First- Draw	11/17/2023 5:35:00 AM	Combination Sink - Fountain - Bubbler Style (Non- Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	

Analysis Method: APHA SM 3113B (GFAA)

 $mg/L = Parts Per Million (ppm), N/A = Not Applicable, <math>\mu g/L = Parts Per Billion, N/P = Not Provided$

Sample Collector: Shannon King

Certification:

Analyst(s): Nida McGarvey

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