

## CERTIFICATE OF ANALYSIS

<b>Chain of Custody:</b> 656083	<b>Job Name:</b> Longfellow Elementary School	<b>Date Submitted:</b> 03/08/2024
<b>Client:</b> Howard County Public School System	<b>Job Location:</b> 5470 Hesperus Drive, Columbia, MD 21044	<b>Date Analyzed:</b> 03/14/2024
<b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042	<b>Job Number:</b> 13.056	<b>Report Date:</b> 03/15/2024
<b>Attention:</b> Christopher Madden	<b>P.O. Number:</b> Not Provided	<b>Date Sampled:</b> 02/29/2024 - 03/07/2024
		<b>Person Submitting:</b> John D. Farmer, III

### 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
656083-1	1: LOES-1 First Draw	02/29/2024 5:11 AM	Ice Machine (Stand Alone), Yes (= Consumption), Kitchen, , Ice Maker, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-2	2: LOES-2 First-Draw	02/29/2024 5:08 AM	Faucet, Cold, Yes (= Consumption), Kitchen, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-3	4: LOES-3 First-Draw	02/29/2024 5:13 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Cafeteria, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-4	5: LOES-3BW First-Draw	03/07/2024 6:45 AM	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Cafeteria, , Bottle Filler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-5	6: LOES-4 First-Draw	02/29/2024 5:14 AM	Drinking Water Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Cafeteria, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-6	7: LOES-5F First-Draw	02/29/2024 5:16 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	
656083-7	8: LOES-6F First-Draw	02/29/2024 5:19 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	
656083-8	9: LOES-7F First-Draw	02/29/2024 5:20 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	
656083-9	10: LOES-8F First-Draw	02/29/2024 5:24 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	
656083-10	11: LOES-9F First-Draw	02/29/2024 5:25 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	
656083-11	12: LOES-10F First-Draw	02/29/2024 5:26 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	
656083-12	13: LOES-11F First-Draw	03/06/2024 6:58 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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656083-13	14: LOES-12F First-Draw	02/29/2024 5:31 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-14	15: LOES-13F First-Draw	02/29/2024 5:27 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-15	16: LOES-14F First-Draw	02/29/2024 5:28 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-16	17: LOES-15F First-Draw	02/29/2024 5:29 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-17	18: LOES-16F First-Draw	02/29/2024 5:32 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-18	19: LOES-17F First-Draw	02/29/2024 5:35 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor					VOID Per Client Request
656083-19	20: LOES-18F First-Draw	02/29/2024 5:41 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-20	21: LOES-19F First-Draw	02/29/2024 5:42 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-21	22: LOES-20F First-Draw	02/29/2024 5:43 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-22	23: LOES-21F First-Draw	02/29/2024 5:44 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-23	24: LOES-22F First-Draw	02/29/2024 5:45 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-24	25: LOES-23F First-Draw	02/29/2024 5:47 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	

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656083-25	26: LOES-24F First-Draw	02/29/2024 5:48 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-26	27: LOES-25F First-Draw	02/29/2024 5:49 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-27	28: LOES-26F First-Draw	02/29/2024 5:50 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-28	29: LOES-28F First-Draw	02/29/2024 5:54 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-29	30: LOES-29F First-Draw	02/29/2024 5:57 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-30	31: LOES-30F First-Draw	02/29/2024 5:56 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-31	32: LOES-31F First-Draw	03/06/2024 6:53 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.6 ug/L	
656083-32	33: LOES-32F First-Draw	03/06/2024 6:54 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	1.2 ug/L	
656083-33	34: LOES-33F First-Draw	02/29/2024 6:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-34	35: LOES-34F First-Draw	02/29/2024 6:01 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-35	36: LOES-35 First-Draw	02/29/2024 6:05 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-36	37: LOES-36 First-Draw	02/29/2024 6:05 AM	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	

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656083-37	38: LOES-36BW First-Draw	03/07/2024 6:41 AM	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Hallway, , Bottle Filler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-38	39: LOES-37S First-Draw	03/07/2024 6:43 AM	Combination Sink - Faucet, Cold, Yes (= Consumption), Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-39	40: LOES-37F First-Draw	02/29/2024 6:08 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Nurse's Office/Health Room, , Bubbler, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-40	41: LOES-38 First-Draw	02/29/2024 6:12 AM	Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-41	42: LOES-39 First-Draw	02/29/2024 6:10 AM	Faucet, Cold, Yes (= Consumption), Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	Furnace AA	Lead	1 ug/L	<1 ug/L	
656083-42	3: LOES-2 Flush	2/29/2024 5:14:00 AM	Faucet, Cold, Yes (= Consumption), Kitchen, , Sink, Main Bldg, 1st Floor					VOID: Sample Not Analyzed - Associated 1st Draw <5.5ppb
656083-43	43: LOES-17F First-Draw	2/29/2024 5:32:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor					VOID Per Client Request
656083-44	19: LOES-17F First-Draw	03/13/2024 6:45 AM	Combination Sink - Fountain - Bubblers 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)  
Preparation Method: None  
mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

Sample Collector: Christopher Madden/John D. Farmer, III  
Certification:

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