



CERTIFICATE OF ANALYSIS

Chain of Custody: 632723
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Guilford Elementary School
Job Location: 7335 Oakland Mills Road, Columbia,
MD 21046
Job Number: 13.033
P.O. Number: Not Provided

Date Submitted: 02/04/2022
Date Analyzed: 02/11/2022
Report Date: 02/11/2022
Date Sampled: 01/26/2022 - 01/27/2022
Person Submitting: Jeff Klenk

Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Sample Collection Information	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
632723-1	GES-2 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.53 ug/L	
632723-2	GES-3 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-3	GES-4 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-4	GES-6 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.75 ug/L	
632723-5	GES-8F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.93 ug/L	
632723-6	GES-9F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.76 ug/L	
632723-7	GES-10F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.82 ug/L	
632723-8	GES-11F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.78 ug/L	
632723-9	GES-13F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.62 ug/L	
632723-10	GES-14 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-11	GES-15 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-12	GES-17 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-13	GES-18 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-14	GES-19F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.62 ug/L	



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632723-15	GES-20F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.76 ug/L	
632723-16	GES-21F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.56 ug/L	
632723-17	GES-22 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-18	GES-23 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-19	GES-24 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-20	GES-25 First-Draw	01/26/2022 5:07 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, see floor plan, Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
632723-21	GES-26F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.69 ug/L	
632723-22	GES-27F First-Draw	01/26/2022 5:07 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, see floor plan, Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.8 ug/L	0.80 ug/L.
632723-23	GES-1 Flush	01/27/2022 5:38 am	Faucet, Cold, Consumption, Kitchen, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.82 ug/L	
632723-24	GES-5 First-Draw	01/27/2022 5:38 am	Faucet, Cold, Consumption, Office, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	7.1 ug/L	This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632723-25	GES-7BW First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Hallway, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	



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632723-26	GES-8S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	11 ug/L	11.0 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632723-27	GES-9S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
632723-28	GES-10S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
632723-29	GES-11S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.1 ug/L	
632723-30	GES-12 First-Draw	01/27/2022 5:38 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
632723-31	GES-13S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.3 ug/L	
632723-32	GES-16 First-Draw	01/27/2022 5:38 am	Faucet, Cold, Consumption, Media Center, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.3 ug/L	
632723-33	GES-19S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
632723-34	GES-20S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.76 ug/L	
632723-35	GES-21S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.91 ug/L	



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632723-36	GES-26S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	82 ug/L	82.0 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
632723-37	GES-27S First-Draw	01/27/2022 5:38 am	Combination Sink - Faucet, Cold, Consumption, Classroom, see floor plan, Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.1 ug/L	
632723-38	GES-28 First-Draw	01/27/2022 5:38 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, see floor plan, Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.2 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, ug/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

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