



CERTIFICATE OF ANALYSIS

Chain of Custody: 636112
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Centennial High School
Job Location: 4300 Centennial Lane, Ellicott City,
MD 21042
Job Number: 13.036
P.O. Number: Not Provided

Date Submitted: 05/13/2022
Date Analyzed: 05/20/2022
Report Date: 05/20/2022
Date Sampled: 05/12/2022 - 05/13/2022
Person Submitting: Jeff Klenk
Revised: 05/23/2022 (Revision #1)

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
636112-1	CHS 1	05/13/2022 5:40 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.96 ug/L	
636112-2	CHS 2	05/13/2022 5:39 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
636112-3	CHS 3A	05/13/2022 5:08 am	Commercial Kitchen Kettle, Cold (i.e., faucet leading into kettle), Consumption, Kitchen, , kettle, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	20 ug/L	19.6 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
636112-4	CHS 3B	05/13/2022 5:39 am	Commercial Kitchen Kettle, Cold (i.e., faucet leading into kettle), Consumption, Kitchen, , kettle, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	7.4 ug/L	This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
636112-5	CHS 4	05/13/2022 5:08 am	Ice Machine (Stand Alone), Consumption, Kitchen, , ice machine, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636112-6	CHS 5A	05/13/2022 5:08 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	2.6 ug/L	
636112-7	CHS 5B	05/13/2022 5:08 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.1 ug/L	
636112-8	CHS 6	05/13/2022 5:08 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	2 ug/L	2.0 ug/L.
636112-9	CHS 7	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636112-10	CHS 7BW	05/13/2022 5:08 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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636112-11	CHS 9	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	3.3 ug/L	
636112-12	CHS 10	05/13/2022 5:08 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	2.5 ug/L	
636112-13	CHS 11	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	3.6 ug/L	
636112-14	CHS 13	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.97 ug/L	
636112-15	CHS 14	05/13/2022 5:08 am	Ice Machine (Stand Alone), Consumption, Locker Room, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636112-16	CHS 15	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Classroom, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	3.6 ug/L	
636112-17	CHS 17	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.4 ug/L	
636112-18	CHS 17BW	05/13/2022 5:08 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1 ug/L	1.0 ug/L.
636112-19	CHS 18	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.8 ug/L	0.80 ug/L.
636112-20	CHS 19	05/13/2022 5:08 am	Ice Machine (Stand Alone), Consumption, Locker Room, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636112-21	CHS 19A	05/13/2022 5:08 am	Spigot (with threadings for hose connection), Consumption, Locker Room, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.92 ug/L	
636112-22	CHS 21	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Weight/Training/Fitness Room, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636112-23	CHS 22	05/13/2022 5:08 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.7 ug/L	
636112-24	CHS 23	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	3.8 ug/L	



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636112-25	CHS 24	05/13/2022 5:08 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.3 ug/L	
636112-26	CHS 25	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.9 ug/L	
636112-27	CHS 26	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636112-28	CHS 26BW	05/13/2022 5:08 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636112-29	CHS 27	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
636112-30	CHS 28	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.93 ug/L	
636112-31	CHS 29	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.3 ug/L	
636112-32	CHS 30	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.84 ug/L	
636112-33	CHS 33	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.59 ug/L	
636112-34	CHS 33BW	05/13/2022 5:08 am	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.82 ug/L	
636112-35	CHS 36	05/12/2022 5:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	2.9 ug/L	
636112-36	CHS 37	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	2.9 ug/L	
636112-37	CHS 38	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	3.2 ug/L	
636112-38	CHS 39	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.76 ug/L	



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636112-39	CHS 40	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.66 ug/L	
636112-40	CHS 41	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.75 ug/L	
636112-41	CHS 42	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	1.1 ug/L	
636112-42	CHS 43	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.93 ug/L	
636112-43	CHS 44	05/13/2022 5:08 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.75 ug/L	
636112-44	CHS 51	05/13/2022 5:08 am	Faucet, Cold, Consumption, Concessions, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	0.89 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)

mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

Analyst(s): Jean-Paul Littleton

Sample Collector:
Certification:

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

Technical Director George Land

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