



CERTIFICATE OF ANALYSIS

Chain of Custody: 640786
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Lime Kiln Middle School
Job Location: 11650 Scaggsville Road, Fulton, MD
20759
Job Number: 13.070
P.O. Number: Not Provided

Date Submitted: 10/21/2022
Date Analyzed: 10/28/2022
Report Date: 10/28/2022
Date Sampled: 10/13/2022 & 10/14/2022 JK
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					
640786-1	LKMS 1 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.3 ug/L	
640786-2	LKMS 2 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-3	LKMS 3 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-4	LKMS 4 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.7 ug/L	
640786-5	LKMS 5 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.6 ug/L	
640786-6	LKMS 6 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	11 ug/L	10.7 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
640786-7	LKMS 7 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
640786-8	LKMS 8 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.5 ug/L	
640786-9	LKMS 9 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.75 ug/L	
640786-10	LKMS 10 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Classroom (Home Economics), , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-11	LKMS 11 First-Draw	10/13/2022 6:15 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	



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Attention: Jeff Klenk	P.O. Number: Not Provided	Date Sampled: 10/13/2022 & 10/14/2022 JK
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640786-12	LKMS 12 First-Draw	10/13/2022 6:15 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	
640786-13	LKMS 13 First-Draw	10/13/2022 6:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.61 ug/L	
640786-14	LKMS 14 First-Draw	10/13/2022 6:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Locker Room, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-15	LKMS 15 First-Draw	10/13/2022 6:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, , Fountain, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-16	LKMS 15BW First-Draw	10/14/2022 7:05 am	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Consumption, Cafeteria, , Chiller Style, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-17	LKMS 16 Flush	10/13/2022 6:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.3 ug/L	
640786-18	LKMS 17 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	19 ug/L	19.5 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.



CERTIFICATE OF ANALYSIS

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640786-19	LKMS 18 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor	kitchen kettle JK	ICP	Lead	0.5 ug/L	70 ug/L	70.3 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
640786-20	LKMS 19 First-Draw	10/13/2022 6:15 am	Ice Machine (Stand Alone), Consumption, Kitchen, , Ice Maker, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-21	LKMS 20 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	13 ug/L	12.5 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools.
640786-22	LKMS 21 First-Draw	10/13/2022 6:15 am	Refrigerator Water Dispenser -- Not required if non-metal water line, Consumption, Teachers' Lounge/Break Room, , Water Dispenser, Main Bldg, 1st Floor		ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-23	LKMS 22 First-Draw	10/13/2022 6:15 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	
640786-24	LKMS 24 First-Draw	10/13/2022 6:15 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	
640786-25	LKMS 29 First-Draw	10/13/2022 6:15 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	
640786-26	LKMS 31 First-Draw	10/13/2022 6:15 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	



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640786-27	LKMS 33 First-Draw	10/13/2022 6:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, Ground Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-28	LKMS 34 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Media Center, , Sink, Main Bldg, Ground Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-29	LKMS 36 First-Draw	10/13/2022 6:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, Ground Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-30	LKMS 37 First-Draw	10/13/2022 6:15 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Bldg, Ground Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-31	LKMS 40 First-Draw	10/13/2022 6:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, Ground Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
640786-32	LKMS 43 First-Draw	10/13/2022 6:15 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Bldg, Ground Floor	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 (15BW) & Greg Harrison (all others)
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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