



# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 631137  
**Client:** Howard County Public School System  
**Address:** 10910 Route 108  
Ellicott City, MD 21042  
**Attention:** Jeffrey M. Klenk

**Job Name:** Cradlerock Elementary School  
**Job Location:** 6700 Cradlerock Way, Columbia, MD  
21045  
**Job Number:** 13.035  
**P.O. Number:** Not Provided

**Date Submitted:** 11/19/2021  
**Date Analyzed:** 11/30/2021  
**Report Date:** 11/30/2021  
**Date Sampled:** 11/18/2021 - 11/19/2021  
**Person Submitting:** Jeffrey M. 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					
631137-1	CRES 4 First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-2	CRES 5F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	2.2 ug/L	
631137-3	CRES 6F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-4	CRES 7F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	1.5 ug/L	
631137-5	CRES 8 First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-6	CRES 9F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	2.5 ug/L	
631137-7	CRES 12F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	2.9 ug/L	
631137-8	CRES 13 First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Cooler/Chiller Style, Consumption, Hallway, , Fountain, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-9	CRES 14F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-10	CRES 15F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-11	CRES 16F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-12	CRES 17F First-Draw	11/18/2021 5:35 am	Drinking Water Fountain - Bubblers Style, Consumption, Classroom, , Fountain, ,	Furnace AA	Lead	1 ug/L	1.6 ug/L	
631137-13	CRES 1 First-Draw	11/19/2021 5:55 am	Ice Machine, Consumption, Kitchen, , Ice Machine, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-14	CRES 3 Flush	11/19/2021 5:55 am	Faucet, Cold, Consumption, Kitchen, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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		Date/Time	Location					
631137-15	CRES 4BW First-Draw	11/19/2021 5:55 am	Bottle Refill Dispenser/Water Refill Station, Consumption, Hallway, , Bottle Fill, ,	Furnace AA	Lead	1 ug/L	1.3 ug/L	
631137-16	CRES 5S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-17	CRES 6S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-18	CRES 7S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	2.4 ug/L	
631137-19	CRES 9S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	1.2 ug/L	
631137-20	CRES 10 First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Nurse's Office/Health Room, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-21	CRES 11 First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-22	CRES 12S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-23	CRES 13BW First-Draw	11/19/2021 5:55 am	Bottle Refill Dispenser/Water Refill Station, Consumption, Hallway, , Bottle Fill, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-24	CRES 14S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-25	CRES 15S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-26	CRES 16S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	
631137-27	CRES 17S First-Draw	11/19/2021 5:55 am	Faucet, Cold, Consumption, Classroom, , Sink, ,	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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**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):** Nida McGarvey

**Sample Collector:** Jeffrey M. Klenk  
**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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