



# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 621109  
**Client:** Howard County Public School System  
**Address:** 10910 Route 108  
Ellicott City, MD 21042  
**Attention:** Jeff Klenk

**Job Name:** Phelps Luck Elementary School  
**Job Location:** 5370 Old Stone Court, Columbia, MD  
21045  
**Job Number:** 13.024  
**P.O. Number:** Not Provided

**Date Submitted:** 03/13/2020  
**Date Analyzed:** 03/16/2020  
**Report Date:** 03/19/2020  
**Date Sampled:** 03/12/2020 - 03/13/2020  
**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					
621109-1	PLES 3	03/12/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-2	PLES 4	03/12/2020 5:06 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-3	PLES 5F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-4	PLES 6F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-5	PLES 7F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-6	PLES 8F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-7	PLES 9F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-8	PLES 10F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-9	PLES 11F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-10	PLES 12F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-11	PLES 13F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-12	PLES 14F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-13	PLES 15F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-14	PLES 16F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-15	PLES 17F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-16	PLES 18F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-17	PLES 19F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-18	PLES 20F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-19	PLES 21F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-20	PLES 22F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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621109-21	PLES 23F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-22	PLES 24F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-23	PLES 27F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-24	PLES 28F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-25	PLES 29F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-26	PLES 30F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-27	PLES 31F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-28	PLES 32F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-29	PLES 33F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-30	PLES 34F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-31	PLES 35F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-32	PLES 36F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-33	PLES 37F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-34	PLES 38F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-35	PLES 39F	03/12/2020 5:06 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-36	PLES 1	03/13/2020 5:42 am	KS	ICP	Lead	0.5 ug/L	8.2 ug/L	
621109-37	PLES 5S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-38	PLES 6S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-39	PLES 7S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-40	PLES 8S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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AMA Sample Number	Client Sample Number	Sample Collection Information		Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
		Date/Time	Location					
621109-41	PLES 9S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-42	PLES 10S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-43	PLES 11S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-44	PLES 12S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-45	PLES 13S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-46	PLES 14S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-47	PLES 15S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-48	PLES 16S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-49	PLES 17S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-50	PLES 18S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-51	PLES 19S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	0.79 ug/L	
621109-52	PLES 20S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	0.55 ug/L	
621109-53	PLES 21S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-54	PLES 22S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-55	PLES 23S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-56	PLES 24S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-57	PLES 25	03/13/2020 5:42 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-58	PLES 26	03/13/2020 5:42 am	OT.4	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-59	PLES 27S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-60	PLES 28S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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AMA Sample Number	Client Sample Number	Sample Collection Information		Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
		Date/Time	Location					
621109-61	PLES 29S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-62	PLES 30S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	0.57 ug/L	
621109-63	PLES 31S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-64	PLES 32S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-65	PLES 33S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-66	PLES 34S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-67	PLES 35S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-68	PLES 36S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-69	PLES 37S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-70	PLES 38S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-71	PLES 39S	03/13/2020 5:42 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-72	PLES 40	03/13/2020 5:42 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
621109-73	PLES 41	03/13/2020 5:42 am	NO	ICP	Lead	0.5 ug/L	< 0.5 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):** Jean-Paul Littleton

**Sample Collector:** Jeff 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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