



# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 617688  
**Client:** Howard County Public School System  
**Address:** 10910 Route 108  
Ellicott City, MD 21042  
**Attention:** Jeff Klenk

**Job Name:** Bonnie Branch Middle School  
**Job Location:** 4979 Ilchester Road, Ellicott City, MD  
21043  
**Job Number:** 13.071  
**P.O. Number:** Not Provided

**Date Submitted:** 09/20/2019  
**Date Analyzed:** 09/26/2019  
**Report Date:** 09/26/2019  
**Date Sampled:** 09/19/2019  
**Person Submitting:** Jeff Klenk  
**Revised:** 09/26/2019 (Revision #1)

## 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					
617688-1	BBMS 1: FD	09/19/2019 5:10 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-2	BBMS 2: FD	09/19/2019 5:10 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-3	BBMS 3: FD	09/19/2019 5:10 am	OT.2	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-4	BBMS 4: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-5	BBMS 5: FD	09/19/2019 5:10 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-6	BBMS 6: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-7	BBMS 7: FD	09/19/2019 5:10 am	OT.6	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-8	BBMS 8: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-9	BBMS 9: FD	09/19/2019 5:10 am	CR	ICP	Lead	0.5 ug/L	0.72 ug/L	
617688-10	BBMS 10: FD	09/19/2019 5:10 am	OT.6	ICP	Lead	0.5 ug/L	29 ug/L	29.3 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
617688-11	BBMS 11: FD	09/19/2019 5:10 am	OT.6	ICP	Lead	0.5 ug/L	0.63 ug/L	
617688-12	BBMS 12: FD	09/19/2019 5:10 am	CR	ICP	Lead	0.5 ug/L	0.57 ug/L	
617688-13	BBMS 13: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-14	BBMS 14: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-15	BBMS 15: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-16	BBMS 16: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-17	BBMS 17: FD	09/19/2019 5:10 am	KK	ICP	Lead	0.5 ug/L	17 ug/L	17.5 ug/L.
617688-18	BBMS 18: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-19	BBMS 19: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
617688-20	BBMS 20: FD	09/19/2019 5:10 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-21	BBMS 21: FD	09/19/2019 5:10 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-22	BBMS 22: FD	09/19/2019 5:10 am	HE	ICP	Lead	0.5 ug/L	0.59 ug/L	
617688-23	BBMS 23: FD	09/19/2019 5:10 am	HE	ICP	Lead	0.5 ug/L	0.7 ug/L	
617688-24	BBMS 24: FD	09/19/2019 5:10 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-25	BBMS 25: FD	09/19/2019 5:10 am	HE	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-26	BBMS 26: FD	09/19/2019 5:10 am	HE	ICP	Lead	0.5 ug/L	0.79 ug/L	
617688-27	BBMS 28: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-28	BBMS 29: FD	09/19/2019 5:10 am	OT.7	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-29	BBMS 30: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-30	BBMS 31: FD	09/19/2019 5:10 am	OT.6	ICP	Lead	0.5 ug/L	20 ug/L	20.0 ug/L.
617688-31	BBMS 32: FD	09/19/2019 5:10 am	OT.6	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-32	BBMS 33: FD	09/19/2019 5:10 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-33	BBMS 34: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-34	BBMS 35: FD	09/19/2019 5:10 am	CR	ICP	Lead	0.5 ug/L	0.78 ug/L	
617688-35	BBMS 36: FD	09/19/2019 5:10 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-36	BBMS 37: FD	09/19/2019 5:10 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
617688-37	BBMS 38: FD	09/19/2019 5:10 am	KS	ICP	Lead	0.5 ug/L	0.67 ug/L	
617688-38	BBMS 39: FD	09/19/2019 5:10 am	KS	ICP	Lead	0.5 ug/L	1.3 ug/L	



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AMA Sample Number	Client Sample Number	Sample Collection Information Date/Time	Sample Collection Information Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
617688-39	BBMS 40: FD	09/19/2019 5:10 am	KS	ICP	Lead	0.5 ug/L	0.64 ug/L	
617688-40	BBMS 41: FD	09/19/2019 5:10 am	OT	ICP	Lead	0.5 ug/L	10 ug/L	10.2 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)

mg/L = Parts Per Million (ppm), N/A = Not Applicable, ug/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** G. Edward Carney

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