



CERTIFICATE OF ANALYSIS

Chain of Custody: 611445
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Bryant Woods Elementary School
Job Location: 5450 Blue Heron Lane, Columbia, MD
21044
Job Number: 13.079
P.O. Number: Not Provided

Date Submitted: 11/16/2018
Date Analyzed: 11/28/2018
Report Date: 11/28/2018
Date Sampled: 11/13/2018 - 11/14/2018
Person Submitting: Jeff Klenk
Revised: 12/06/2018 (Revision #2)

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					
611445-1	BWES 2 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-2	BWES 4 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-3	BWES 5 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-4	BWES 6F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-5	BWES 7F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	0.59 ug/L	
611445-6	BWES 8F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-7	BWES 9F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-8	BWES 10F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-9	BWES 11F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-10	BWES 12F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-11	BWES 13F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-12	BWES 14F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	1.6 ug/L	
611445-13	BWES 15F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	0.88 ug/L	
611445-14	BWES 16 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-15	BWES 17 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-16	BWES 18 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	3.4 ug/L	
611445-17	BWES 19 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-18	BWES 20F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-19	BWES 21F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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611445-20	BWES 22F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-21	BWES 23F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	4.3 ug/L	
611445-22	BWES 24F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-23	BWES 25F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-24	BWES 26F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-25	BWES 27 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-26	BWES 29F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-27	BWES 30F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-28	BWES 31F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-29	BWES 32F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-30	BWES 34F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	1.2 ug/L	
611445-31	BWES 35 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-32	BWES 36 1st Draw	11/13/2018 5:05 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-33	BWES 37F 1st Draw	11/13/2018 5:05 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-34	BWES 1 1st Draw	11/14/2018 5:15 am	KS	ICP	Lead	0.5 ug/L	10 ug/L	10.4 ug/L.
611445-35	BWES 3 1st Draw	11/14/2018 5:15 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-36	BWES 6S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	3.1 ug/L	
611445-37	BWES 7S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	3.7 ug/L	
611445-38	BWES 8S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.77 ug/L	



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		Date/Time	Location					
611445-39	BWES 9S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	1.6 ug/L	
611445-40	BWES 10S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.68 ug/L	
611445-41	BWES 11S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.69 ug/L	
611445-42	BWES 12S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.59 ug/L	
611445-43	BWES 13S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-44	BWES 14S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.72 ug/L	
611445-45	BWES 15S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.56 ug/L	
611445-46	BWES 20S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	2.3 ug/L	
611445-47	BWES 21S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.73 ug/L	
611445-48	BWES 22S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	7.3 ug/L	
611445-49	BWES 23S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	19 ug/L	18.7 ug/L.
611445-50	BWES 24S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.88 ug/L	
611445-51	BWES 25S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	1.5 ug/L	
611445-52	BWES 26S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.83 ug/L	
611445-53	BWES 29S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611445-54	BWES 30S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.8 ug/L	
611445-55	BWES 31S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.58 ug/L	
611445-56	BWES 32S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	1.2 ug/L	
611445-57	BWES 33 1st Draw	11/14/2018 5:15 am	NO	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					
611445-58	BWES 34S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	1.6 ug/L	
611445-59	BWES 37S 1st Draw	11/14/2018 5:15 am	CC/S	ICP	Lead	0.5 ug/L	0.57 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
Certification:

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

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