



CERTIFICATE OF ANALYSIS

Chain of Custody: 611448
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Running Brook Elementary School
Job Location: 5215 W. Running Brook Road,
Columbia, MD 21044
Job Number: 13.066
P.O. Number: Not Provided

Date Submitted: 11/16/2018
Date Analyzed: 12/13/2018
Report Date: 12/17/2018
Date Sampled: 11/15/2018 - 11/29/2018
Person Submitting: Jeff Klenk
Revised: 12/18/2018 (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					
611448-1	RBES 1 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-2	RBES 2 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-3	RBES 6F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-4	RBES 7 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-5	RBES 8 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-6	RBES 10F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-7	RBES 11F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-8	RBES 13 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-9	RBES 14 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-10	RBES 15F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-11	RBES 16F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-12	RBES 17F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-13	RBES 18F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-14	RBES 20F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-15	RBES 21F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-16	RBES 22F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-17	RBES 23F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-18	RBES 24 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-19	RBES 25 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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611448-20	RBES 26F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	0.52 ug/L	
611448-21	RBES 27F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-22	RBES 28F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-23	RBES 29F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-24	RBES 32F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-25	RBES 33 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-26	RBES 34 1st Draw	11/15/2018 6:15 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-27	RBES 35F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-28	RBES 36F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-29	RBES 37F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-30	RBES 38F 1st Draw	11/15/2018 6:15 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-31	RBES 3 1st Draw	11/29/2018 5:30 am	KS	ICP	Lead	0.5 ug/L	0.61 ug/L	
611448-32	RBES 4 1st Draw	11/29/2018 5:30 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-33	RBES 6S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-34	RBES 10S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-35	RBES 11S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-36	RBES 12 1st Draw	11/29/2018 5:30 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-37	RBES 15S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-38	RBES 16S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
611448-39	RBES 17S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-40	RBES 18S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-41	RBES 19 1st Draw	11/29/2018 5:30 am	CR	ICP	Lead	0.5 ug/L	1.7 ug/L	
611448-42	RBES 20S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-43	RBES 21S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	0.66 ug/L	
611448-44	RBES 22S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-45	RBES 23S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-46	RBES 26S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	0.86 ug/L	
611448-47	RBES 27S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	0.53 ug/L	
611448-48	RBES 28S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	0.64 ug/L	
611448-49	RBES 29S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-50	RBES 30 1st Draw	11/29/2018 5:30 am	OT.7	ICP	Lead	0.5 ug/L	0.65 ug/L	
611448-51	RBES 31 1st Draw	11/29/2018 5:30 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-52	RBES 9 1st Draw	11/29/2018 5:30 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-53	RBES 5 1st Draw	11/29/2018 5:30 am	CR	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-54	RBES 32S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-55	RBES 35S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-56	RBES 36S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
611448-57	RBES 37S 1st Draw	11/29/2018 5:30 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
611448-58	RBES 38S 1st Draw	11/29/2018 5:30 am	CC/S	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)

mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

Analyst(s): Jean-Paul Littleton, George Land

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

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NY ELAP, AIHA-LAP, or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.