

CERTIFICATE OF ANALYSIS

Rockburn Elementary School

Job Location: 6145 Montgomery Road, Elkrdige, MD

Date Submitted: 04/11/2022

Date Analyzed: 05/05/2022

Report Date:

Date Sampled: 04/05/2022 - 04/27/2022

05/06/2022

Person Submitting: Chris Madden

NY ELAP

10920

Maryland

Water Quality

Lab #262W

Chain of Custody: 635046

Client: **Howard County Public School System**

Address: 10910 Route 108

Jeff Klenk Attention:

Ellicott City, MD 21042

21075

Job Name:

Job Number: 13.050

P.O. Number: Not Provided

AMA Sample Number	Client Sample Number	Date/Time	Sample Collection Information Location	Analysis Type	Sample Analyte		Final Result	Comments
635046- 1	ROES-01A First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	5.6 ug/L	5.6 ug/L. This result meets or exceeds the 5.5ppb action level as established by MDE for schools.
635046- 2	ROES-01B Flush	04/06/2022 6:00 am	Faucet, Cold, Consumption, Kitchen, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.8 ug/L	0.80 ug/L.
635046- 3	ROES-02F First-Draw	04/05/2022 5:00 am	${\it Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, \\ {\it Combo Fountain, Main Building, 1st Floor}$	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 4	ROES-02S First-Draw	04/06/2022 5:00 am	$ {\it Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, } \\ {\it 1st Floor} $	ICP	Lead	0.5 ug/L	1.1 ug/L	
635046- 5	ROES-03 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	2.1 ug/L	
635046- 6	ROES-04 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	2.1 ug/L	
635046- 7	ROES-05 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	3.2 ug/L	
635046- 8	ROES-06F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
635046- 9	ROES-06S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.6 ug/L	
635046- 10	ROES-07 First-Draw	04/05/2022 5:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 11	ROES-08F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 12	ROES-08S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	



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Person Submitting: Chris Madden

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635046- 13	ROES-09F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.58 ug/L	
635046- 14	ROES-09S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.76 ug/L	
635046- 15	ROES-10F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 16	ROES-10S First-Draw	04/06/2022 5:00 am	${\bf Combination\ Sink\ -\ Faucet,\ Cold,\ Consumption,\ Classroom,\ ,\ Combo\ Sink,\ Main\ Building,\ 1st\ Floor$	ICP	Lead	0.5 ug/L	0.6 ug/L	0.60 ug/L.
635046- 17	ROES-11F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.78 ug/L	
635046- 18	ROES-12 First-Draw	04/05/2022 5:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 19	ROES-13F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
635046- 20	ROES-13S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.96 ug/L	
635046- 21	ROES-14F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 22	ROES-14S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.75 ug/L	
635046- 23	ROES-15F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.72 ug/L	
635046- 24	ROES-15S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
635046- 25	ROES-16 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Multi Purpose Room, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	3.5 ug/L	
635046- 26	ROES-17F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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635046- 27	ROES-17S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.8 ug/L	0.80 ug/L.
635046- 28	ROES-18 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.3 ug/L	
635046- 29	ROES-19 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.67 ug/L	
635046- 30	ROES-20 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	2.8 ug/L	
635046- 31	ROES-21F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.98 ug/L	
635046- 32	ROES-21S First-Draw	04/06/2022 5:00 am	${\bf Combination\ Sink\ -\ Faucet,\ Cold,\ Consumption,\ Classroom,\ ,\ Combo\ Sink,\ Main\ Building,}\\ {\bf 1st\ Floor}$	ICP	Lead	0.5 ug/L	1.6 ug/L	
635046- 33	ROES-22 First-Draw	04/05/2022 5:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.67 ug/L	
635046- 34	ROES-23 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.4 ug/L	
635046- 35	ROES-24F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.75 ug/L	
635046- 36	ROES-24S First-Draw	04/06/2022 5:00 am	${\bf Combination\ Sink\ -\ Faucet,\ Cold,\ Consumption,\ Classroom,\ ,\ Combo\ Sink,\ Main\ Building,}\\ {\bf 1st\ Floor}$	ICP	Lead	0.5 ug/L	0.8 ug/L	0.80 ug/L.
635046- 37	ROES-25 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
635046- 38	ROES-26 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
635046- 39	ROES-27 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.9 ug/L	
635046- 40	ROES-28F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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635046- 41	ROES-28S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.84 ug/L	
635046- 42	ROES-29F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.79 ug/L	
335046- 13	ROES-29S First-Draw	04/06/2022 5:00 am	$ {\it Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, } \\ {\it 1st Floor} $	ICP	Lead	0.5 ug/L	1.4 ug/L	
335046- 14	ROES-30 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.5 ug/L	
335046- 15	ROES-31 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	
335046- 16	ROES-32 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
335046- 17	ROES-33F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
335046- 18	ROES-33S First-Draw	04/06/2022 5:00 am	${\bf Combination\ Sink\ -\ Faucet,\ Cold,\ Consumption,\ Classroom,\ ,\ Combo\ Sink,\ Main\ Building,\ 1st\ Floor$	ICP	Lead	0.5 ug/L	1.2 ug/L	
35046- 60	ROES-35F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.75 ug/L	
35046- 1	ROES-36F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.59 ug/L	
35046- 2	ROES-36S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	2.2 ug/L	
335046- 33	ROES-37 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	
35046- 4	ROES-38 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.8 ug/L	0.80 ug/L.
35046- 5	ROES-39F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.74 ug/L	



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635046- 56	ROES-39S First-Draw	04/06/2022 5:00 am	$ {\it Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, } \\ {\it 1st Floor} $	ICP	Lead	0.5 ug/L	2.6 ug/L	
635046- 57	ROES-41F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
635046- 58	ROES-41S First-Draw	04/06/2022 5:00 am	${\bf Combination\ Sink\ -\ Faucet,\ Cold,\ Consumption,\ Classroom,\ ,\ Combo\ Sink,\ Main\ Building,\ 1st\ Floor$	ICP	Lead	0.5 ug/L	2.4 ug/L	
635046- 59	ROES-42F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.72 ug/L	
635046- 60	ROES-42S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.97 ug/L	
635046- 61	ROES-43F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.6 ug/L	
635046- 62	ROES-44F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 63	ROES-44S First-Draw	04/06/2022 5:00 am	$ {\it Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, } \\ {\it 1st Floor} $	ICP	Lead	0.5 ug/L	0.57 ug/L	
635046- 64	ROES-45F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 65	ROES-45S First-Draw	04/06/2022 5:00 am	$ {\it Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, } \\ 1st {\it Floor} $	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 66	ROES-46F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.6 ug/L	0.60 ug/L.
635046- 67	ROES-46S First-Draw	04/06/2022 5:00 am	Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
635046- 68	ROES-47F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 69	ROES-47S First-Draw	04/06/2022 5:00 am	$ {\it Combination Sink - Faucet, Cold, Consumption, Classroom, , Combo Sink, Main Building, } \\ {\it 1st Floor} $	ICP	Lead	0.5 ug/L	1.3 ug/L	



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635046- 70	ROES-48F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.66 ug/L	
635046- 71	ROES-48S First-Draw	04/06/2022 5:00 am	${\bf Combination\ Sink\ -\ Faucet,\ Cold,\ Consumption,\ Classroom,\ ,\ Combo\ Sink,\ Main\ Building,}\\ {\bf 1st\ Floor}$	ICP	Lead	0.5 ug/L	3.2 ug/L	
635046- 72	ROES-49 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 73	ROES-50 First-Draw	04/05/2022 5:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 74	ROES-51 First-Draw	04/05/2022 5:00 am	Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, , Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
635046- 75	ROES-52 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.7 ug/L	0.70 ug/L.
635046- 76	ROES-53 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Classroom, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.4 ug/L	
635046- 77	ROES-54 First-Draw	04/06/2022 5:00 am	Faucet, Cold, Consumption, Teachers' Lounge/Break Room, , Sink, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	0.61 ug/L	
635046- 78	ROES-55F First-Draw	04/05/2022 5:00 am	Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, , Combo Fountain, Main Building, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
635046- 79	ROES-55S First-Draw	04/06/2022 5:00 am	${\bf Combination\ Sink\ -\ Faucet,\ Cold,\ Consumption,\ Classroom,\ ,\ Combo\ Sink,\ Main\ Building,}\\ {\bf 1st\ Floor}$	ICP	Lead	0.5 ug/L	1.6 ug/L	
635046- 80	ROES 11S Frirst-Draw		Combination Sink-Faucet, Cold, Consumption, Classroom,,Sink Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.68 ug/L	
635046- 81	ROES 35s Frirst-Draw		Combination Sink-Faucet, Cold, Consumption, Classroom,,Sink Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
635046- 82	ROES 40 Frirst-Draw		Faucrt, Cold, Consumpton, Media Center,, Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
635046- 83	ROES 43s Frirst-Draw		Combination Sink-Faucet, Cold, Consumption, Classroom,,Sink Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.91 ug/L	



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Summary of Drinking Water Analysis for Metals

AMA **Client Sample** Sample Collection Information Analysis Sample Reporting Final Comments Number Result Type **Analyte Limit** Sample Date/Time Location Number

Analysis Methods: Flame AA: APHA SM3111B (1999, 22nd Ed.), Furnace AA: APHA SM3113B (2010, 22nd Ed.), ICP: EPA 200.8 Sample Collector: Chris Madden & Jeff Klenk (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

Certification:

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

> Technical Director

Jean-Paul Littleton

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