

# CERTIFICATE OF ANALYSIS

<b>Chain of Custody:</b> 652091	<b>Job Name:</b> Clemens Crossing Elementary School	<b>Date Submitted:</b> 10/20/2023
<b>Client:</b> Howard County Public School System	<b>Job Location:</b> 10320 Quarter Staff Road, Columbia, MD 21044	<b>Date Analyzed:</b> 10/30/2023
<b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042	<b>Job Number:</b> Not Provided	<b>Report Date:</b> 10/31/2023
<b>Attention:</b> Christopher Madden	<b>P.O. Number:</b> Not Provided	<b>Date Sampled:</b> 10/13/2023 <b>Person Submitting:</b> John Farmer

## Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
<del>652091-1</del>	<del>1: CCES-1A First-Draw</del>	<del>10/13/2023 6:03:00 AM</del>	<del>Multiple Compartment Sink - Faucet, Cold, Yes (= Consumption), Kitchen, , Right Sink, Main Bldg, 1st Floor</del>	<del>ICP</del>	<del>Lead</del>	<del>0.5 ug/L</del>	<del>22.0 ug/L</del>	<div style="border: 1px solid red; padding: 5px; color: red; text-align: center;"> <b>SAMPLES NOT VALID. KITCHEN FIXTURES ARE EITHER NON-POTABLE OR ON FLUSHING PROGRAM DUE TO PREVIOUS FAILURE (SEE NOTICE DATED 2018).</b> </div>
<del>652091-2</del>	<del>2: CCES-1B First-Draw</del>	<del>10/13/2023 6:04:00 AM</del>	<del>Multiple Compartment Sink - Faucet, Cold, Yes (= Consumption), Kitchen, , Left Sink, Main Bldg, 1st Floor</del>	<del>ICP</del>	<del>Lead</del>	<del>0.5 ug/L</del>	<del>4.5 ug/L</del>	
<del>652091-3</del>	<del>3: CCES-1C First-Draw</del>	<del>10/13/2023 6:04:00 AM</del>	<del>Commercial Sprayer, Cold, Yes (= Consumption), Kitchen, , Sprayer, Main Bldg, 1st Floor</del>	<del>ICP</del>	<del>Lead</del>	<del>0.5 ug/L</del>	<del>1.2 ug/L</del>	<div style="border: 1px solid red; padding: 5px; color: red; text-align: center;"> <b>SAMPLES NOT VALID. KITCHEN FIXTURES ARE EITHER NON-POTABLE OR ON FLUSHING PROGRAM DUE TO PREVIOUS FAILURE (SEE NOTICE DATED 2018).</b> </div>
<del>652091-4</del>	<del>4: CCES-1D First-Draw</del>	<del>10/13/2023 6:05:00 AM</del>	<del>Faucet, Cold, Yes (= Consumption), Kitchen, , Sink, Main Bldg, 1st Floor</del>	<del>ICP</del>	<del>Lead</del>	<del>0.5 ug/L</del>	<del>107 ug/L</del>	
652091-5	5: CCES-2 First-Draw	10/13/2023 5:59:00 AM	Bottle Filler/Drinking Fountain Combo Unit - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-6	6: CCES-3 First-Draw	10/13/2023 5:59:00 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-7	7: CCES-4F First-Draw	10/13/2023 6:01:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Nurse's Office/Health Room, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.2 ug/L	
652091-8	8: CCES-5 First-Draw	10/13/2023 6:02:00 AM	Faucet, Cold, Yes (= Consumption), Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.1 ug/L	
652091-9	9: CCES-6 First-Draw	10/13/2023 6:02:00 AM	Faucet, Cold, Yes (= Consumption), Staff Workroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.84 ug/L	
652091-10	10: CCES-7 First-Draw	10/13/2023 6:41:00 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-11	11: CCES-9 First-Draw	10/13/2023 6:40:00 AM	Faucet, Cold, Yes (= Consumption), Classroom, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.54 ug/L	
652091-12	12: CCES-10 First-Draw	10/13/2023 6:40:00 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-13	13: CCES-11F First-Draw	10/13/2023 6:39:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.60 ug/L	

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<b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042	<b>Job Number:</b> Not Provided	<b>Report Date:</b> 10/31/2023
<b>Attention:</b> Christopher Madden	<b>P.O. Number:</b> Not Provided	<b>Date Sampled:</b> 10/13/2023
		<b>Person Submitting:</b> John Farmer

### Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
652091-14	14: CCES-12F First-Draw	10/13/2023 6:39:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.75 ug/L	
652091-15	15: CCES-14F First-Draw	10/13/2023 6:37:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.61 ug/L	
652091-16	16: CCES-15F First-Draw	10/13/2023 6:36:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.7 ug/L	
652091-17	17: CCES-16F First-Draw	10/13/2023 6:35:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.58 ug/L	
652091-18	18: CCES-17F First-Draw	10/13/2023 6:34:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.52 ug/L	
652091-19	19: CCES-18 First-Draw	10/13/2023 6:09:00 AM	Faucet, Cold, Yes (= Consumption), Media Center, , Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	3.3 ug/L	
652091-20	20: CCES-19F First-Draw	10/13/2023 6:33:00 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-21	21: CCES-20F First-Draw	10/13/2023 6:32:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-22	22: CCES-21F First-Draw	10/13/2023 6:31:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	4.0 ug/L	
652091-23	23: CCES-22F First-Draw	10/13/2023 6:31:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.93 ug/L	
652091-24	24: CCES-23F First-Draw	10/13/2023 6:30:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.76 ug/L	
652091-25	25: CCES-24F First-Draw	10/13/2023 6:19:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	2.0 ug/L	

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<b>Chain of Custody:</b> 652091	<b>Job Name:</b> Clemens Crossing Elementary School	<b>Date Submitted:</b> 10/20/2023
<b>Client:</b> Howard County Public School System	<b>Job Location:</b> 10320 Quarter Staff Road, Columbia, MD 21044	<b>Date Analyzed:</b> 10/30/2023
<b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042	<b>Job Number:</b> Not Provided	<b>Report Date:</b> 10/31/2023
<b>Attention:</b> Christopher Madden	<b>P.O. Number:</b> Not Provided	<b>Date Sampled:</b> 10/13/2023 <b>Person Submitting:</b> John Farmer

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652091-26	26: CCES-25 First-Draw	10/13/2023 6:18:00 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-27	27: CCES-26 First-Draw	10/13/2023 6:18:00 AM	Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-28	28: CCES-27F First-Draw	10/13/2023 6:10:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.80 ug/L	
652091-29	29: CCES-28F First-Draw	10/13/2023 6:11:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.9 ug/L	
652091-30	30: CCES-29F First-Draw	10/13/2023 6:12:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.5 ug/L	
652091-31	31: CCES-30F First-Draw	10/13/2023 6:15:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.72 ug/L	
652091-32	32: CCES-31F First-Draw	10/13/2023 6:17:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.63 ug/L	
652091-33	33: CCES-32F First-Draw	10/13/2023 6:21:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.85 ug/L	
652091-34	34: CCES-33F First-Draw	10/13/2023 6:21:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.53 ug/L	
652091-35	35: CCES-34F First-Draw	10/13/2023 6:22:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.1 ug/L	
652091-36	36: CCES-35F First-Draw	10/13/2023 6:23:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-37	37: CCES-36F First-Draw	10/13/2023 6:23:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.64 ug/L	

# CERTIFICATE OF ANALYSIS

<b>Chain of Custody:</b> 652091	<b>Job Name:</b> Clemens Crossing Elementary School	<b>Date Submitted:</b> 10/20/2023
<b>Client:</b> Howard County Public School System	<b>Job Location:</b> 10320 Quarter Staff Road, Columbia, MD 21044	<b>Date Analyzed:</b> 10/30/2023
<b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042	<b>Job Number:</b> Not Provided	<b>Report Date:</b> 10/31/2023
<b>Attention:</b> Christopher Madden	<b>P.O. Number:</b> Not Provided	<b>Date Sampled:</b> 10/13/2023 <b>Person Submitting:</b> John Farmer

## Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
652091-38	38: CCES-37F First-Draw	10/13/2023 6:24:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	<0.5 ug/L	
652091-39	39: CCES-38F First-Draw	10/13/2023 6:25:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.70 ug/L	
652091-40	40: CCES-39F First-Draw	10/13/2023 6:26:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.92 ug/L	
652091-41	41: CCES-40F First-Draw	10/13/2023 6:26:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.62 ug/L	
652091-42	42: CCES-41F First-Draw	10/13/2023 6:27:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.81 ug/L	
652091-43	43: CCES-13F First-Draw	10/13/2023 6:37:00 AM	Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, See Floor Plan, Bubbler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.72 ug/L	

Sample Collector: Shannon King  
Certification:

Analysis Method: ICP: EPA 200.8 (Rev. 5.4)  
Preparation Method: None  
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):** Paul Littleton



**Technical Director** \_\_\_\_\_  
George Land

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

# CERTIFICATE OF ANALYSIS

<b>Chain of Custody:</b> 652603	<b>Job Name:</b> Clemens Crossing Elementary School	<b>Date Submitted:</b> 11/07/2023
<b>Client:</b> Howard County Public School System	<b>Job Location:</b> 10320 Quarter Staff Road, Columbia, MD 21044	<b>Date Analyzed:</b> 11/14/2023
<b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042	<b>Job Number:</b> 13.034	<b>Report Date:</b> 11/14/2023
<b>Attention:</b> Christopher Madden	<b>P.O. Number:</b> Not Provided	<b>Date Sampled:</b> 11/03/2023 <b>Person Submitting:</b> John Farmer

## Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Date/Time	Location	Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
652603-1	1: CCES-1A Flush	11/3/2023 6:51:00 AM	Multiple Compartment Sink - Faucet, Cold, Yes (= Consumption), Kitchen, , Right Sink, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	1.5 ug/L	
652603-2	2: CCES-2BW First-Draw	11/3/2023 6:45:00 AM	Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Hallway, , Bottle Filler, Main Bldg, 1st Floor	ICP	Lead	0.5 ug/L	0.56 ug/L	

Sample Collector: John Farmer  
 Certification:

Analysis Method: ICP: EPA 200.8 (Rev. 5.4)  
 Preparation Method: None  
 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): Paul Littleton



Technical Director  
 George Land

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