



CERTIFICATE OF ANALYSIS

Chain of Custody: 632725
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Ilchestter Elementary School
Job Location: 4981 Ilchester Road, Ellicott City, MD
21043
Job Number: 13.057
P.O. Number: Not Provided

Date Submitted: 02/04/2022
Date Analyzed: 02/11/2022
Report Date: 02/11/2022
Date Sampled: 02/03/2022 - 02/04/2022
Person Submitting: Jeff Klenk

Summary of Drinking Water Analysis for Metals

| AMA Sample Number | Client Sample Number | Date/Time | Location | Sample Collection Information | Analysis Type | Sample Analyte | Reporting Limit | Final Result | Comments |
|-------------------|----------------------|-----------------------|---|-------------------------------|---------------|----------------|-----------------|--------------|--|
| 632725-1 | IES-1A First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Kitchen, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 6 ug/L | 6.0 ug/L. This results meets or exceeds the 5.5ppb action level as established by MDE for schools. |
| 632725-2 | IES-1B Flush | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Kitchen, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-3 | IES-2 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Cafeteria, See Floor Plan, Fountain, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-4 | IES-3 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-5 | IES-4 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Bubbler Style (Non-Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-6 | IES-5 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 5.4 ug/L | |
| 632725-7 | IES-6 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 3.6 ug/L | |
| 632725-8 | IES-7 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 2.2 ug/L | |
| 632725-9 | IES-10 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 2.2 ug/L | |
| 632725-10 | IES-11 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 5.1 ug/L | |
| 632725-11 | IES-12 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |



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Job Location: 4981 Ilchester Road, Ellicott City, MD
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P.O. Number: Not Provided

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| 632725-12 | IES-13 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 2.5 ug/L | |
| 632725-13 | IES-14 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 2.5 ug/L | |
| 632725-14 | IES-16 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 4.6 ug/L | |
| 632725-15 | IES-17 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 3.7 ug/L | |
| 632725-16 | IES-19 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 3.6 ug/L | |
| 632725-17 | IES-22 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 2.3 ug/L | |
| 632725-18 | IES-23 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 4.9 ug/L | |
| 632725-19 | IES-24 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 5.2 ug/L | |
| 632725-20 | IES-26F First-Draw | 02/03/2022 5:40 am | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-21 | IES-26S First-Draw | 02/04/2022 5:40 am | Combination Sink - Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 1.2 ug/L | |
| 632725-22 | IES-27F First-Draw | 02/03/2022 5:40 am | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-23 | IES-27S First-Draw | 02/04/2022 5:40 am | Combination Sink - Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 0.96 ug/L | |
| 632725-24 | IES-28F First-Draw | 02/03/2022 5:40 am | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-25 | IES-28S First-Draw | 02/04/2022 5:40 am | Combination Sink - Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | 1.4 ug/L | |



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Job Location: 4981 Ilchester Road, Ellicott City, MD
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Job Number: 13.057
P.O. Number: Not Provided

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| 632725-26 | IES-29F First-Draw | 02/03/2022 5:40 am | Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Consumption, Classroom, See Floor Plan, Fountain, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 0.63 ug/L | |
| 632725-27 | IES-29S First-Draw | 02/04/2022 5:40 am | Combination Sink - Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 4.1 ug/L | |
| 632725-28 | IES-31 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 7 ug/L | This results meets or exceeds the 5.5ppb action level as established by MDE for schools. |
| 632725-29 | IES-33 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Teachers' Lounge/Break Room, See Floor Plan, Sink, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | 3.7 ug/L | |
| 632725-30 | IES-34 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, 1st Floor | | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-31 | IES-36 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, Ground Floor | | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-32 | IES-37 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | | ICP | Lead | 0.5 ug/L | 4.6 ug/L | |
| 632725-33 | IES-38 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | | ICP | Lead | 0.5 ug/L | 2.6 ug/L | |
| 632725-34 | IES-39 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | | ICP | Lead | 0.5 ug/L | 9.2 ug/L | This results meets or exceeds the 5.5ppb action level as established by MDE for schools. |



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| | | Date/Time | Location | | | | | |
| 632725-35 | IES-40 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 1.8 ug/L | |
| 632725-36 | IES-41 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 3.2 ug/L | |
| 632725-37 | IES-43 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 3.6 ug/L | |
| 632725-38 | IES-44 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-39 | IES-45 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-40 | IES-46 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Left Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 0.7 ug/L | 0.70 ug/L. |
| 632725-41 | IES-47 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 0.83 ug/L | |
| 632725-42 | IES-48 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Hallway, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 0.67 ug/L | |
| 632725-43 | IES-49 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 4.7 ug/L | |
| 632725-44 | IES-50 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 2.8 ug/L | |
| 632725-45 | IES-51 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 3.9 ug/L | |
| 632725-46 | IES-52 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 2.4 ug/L | |
| 632725-47 | IES-53 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 5.4 ug/L | |
| 632725-48 | IES-54 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 2.5 ug/L | |



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| | | Date/Time | Location | | | | | |
| 632725-49 | IES-55 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 7.4 ug/L | This results meets or exceeds the 5.5ppb action level as established by MDE for schools. |
| 632725-50 | IES-56 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-51 | IES-58 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Hallway, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 1.3 ug/L | |
| 632725-52 | IES-59 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Right Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 0.59 ug/L | |
| 632725-53 | IES-60 First-Draw | 02/03/2022 5:39 am | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Consumption, Hallway, See Floor Plan, Fountain, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |
| 632725-54 | IES-61 First-Draw | 02/04/2022 5:40 am | Faucet, Cold, Consumption, Classroom, See Floor Plan, Sink, Main Building, Ground Floor | ICP | Lead | 0.5 ug/L | 0.69 ug/L | |
| 632725-55 | IES-62 First-Draw | 02/04/2022 5:40 am | Refrigerator Water Dispenser -- Not required if non-metal water line, Consumption, Teachers' Lounge/Break Room, See Floor Plan, Refrigerator Dispenser, Main Building, 1st Floor | ICP | Lead | 0.5 ug/L | < 0.5 ug/L | |



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|--|-------------------------|-----------|----------|-------------------------------|---|-------------------|--------------------|-----------------|----------|
| 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/Chris Madden 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** George Land

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