

## CERTIFICATE OF ANALYSIS

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|--|---|---|
| <b>Chain of Custody:</b> 656084                              | <b>Job Name:</b> Laurel Woods Elementary School               | <b>Date Submitted:</b> 03/08/2024             |
| <b>Client:</b> Howard County Public School System            | <b>Job Location:</b> 9250 North Laurel Road, Laurel, MD 20723 | <b>Date Analyzed:</b> 03/15/2024              |
| <b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042 | <b>Job Number:</b> 13.065                                     | <b>Report Date:</b> 03/15/2024                |
| <b>Attention:</b> Christopher Madden                         | <b>P.O. Number:</b> Not Provided                              | <b>Date Sampled:</b> 03/01/2024 - 03/05/2024  |
|  |   | <b>Person Submitting:</b> John D. Farmer, III |

### 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  |
|-------------------|-------------------------|--------------------|--|---------------|----------------|-----------------|--------------|---|
| 656084-1          | 1: LWES-1 Flush         | 03/01/2024 6:47 AM | Faucet, Cold, Yes (= Consumption), Kitchen, , Right Hand Sink, Main Bldg, 1st Floor  | Furnace AA    | Lead           | 1 ug/L          |              | This sample is considered to be invalid and was discarded. This sample was recollected and results are below. |
| 656084-2          | 2: LWES-2 First-Draw    | 03/01/2024 5:39 AM | Bottle Filler/Drinking Fountain Combo Unit - Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Cafeteria, , Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-3          | 3: LWES-2BW First-Draw  | 03/05/2024 6:46 AM | Bottle Filler/Drinking Fountain Combo Unit - Bottle Filler, Yes (= Consumption), Cafeteria, , Bottle Filler, Main Bldg, 1st Floor                            | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-4          | 4: LWES-3 First-Draw    | 03/01/2024 5:41 AM | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor                                 | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-5          | 5: LWES-4 First-Draw    | 03/01/2024 5:42 AM | Drinking Water Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, , Bubbler, Main Bldg, 1st Floor                                 | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-6          | 6: LWES-5 First-Draw    | 03/01/2024 5:44 AM | Faucet, Cold, Yes (= Consumption), Teachers' Lounge/Break Room, , Sink, Main Bldg, 1st Floor   | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-7          | 7: LWES-6F First-Draw   | 03/01/2024 5:46 AM | Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor                              | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-8          | 8: LWES-7F First-Draw   | 03/01/2024 5:48 AM | Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor                              | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-9          | 9: LWES-8F First-Draw   | 03/01/2024 5:49 AM | Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor                              | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-10         | 10: LWES-9F First-Draw  | 03/01/2024 5:50 AM | Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor                              | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-11         | 11: LWES-10F First-Draw | 03/01/2024 5:52 AM | Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor                              | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |
| 656084-12         | 12: LWES-11F First-Draw | 03/01/2024 5:53 AM | Combination Sink - Fountain - Bubbler Style (Non-Refrigerated), Yes (= Consumption), Classroom, , Bubbler, Main Bldg, 1st Floor                              | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |   |

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| <b>Client:</b> Howard County Public School System            | <b>Job Location:</b> 9250 North Laurel Road, Laurel, MD 20723 | <b>Date Analyzed:</b> 03/15/2024              |
| <b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042 | <b>Job Number:</b> 13.065                                     | <b>Report Date:</b> 03/15/2024                |
| <b>Attention:</b> Christopher Madden                         | <b>P.O. Number:</b> Not Provided                              | <b>Date Sampled:</b> 03/01/2024 - 03/05/2024  |
|  |   | <b>Person Submitting:</b> John D. Farmer, III |

## 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 |
|-------------------|-------------------------|--------------------|---|---------------|----------------|-----------------|--------------|----------|
| 656084-13         | 13: LWES-12F First-Draw | 03/01/2024 5:55 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-14         | 14: LWES-13F First-Draw | 03/01/2024 5:56 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-15         | 15: LWES-14F First-Draw | 03/01/2024 5:59 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-16         | 16: LWES-15F First-Draw | 03/01/2024 6:00 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-17         | 17: LWES-16F First-Draw | 03/01/2024 6:01 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-18         | 18: LWES-17F First-Draw | 03/01/2024 6:04 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-19         | 19: LWES-18 First-Draw  | 03/01/2024 6:06 AM | Faucet, Cold, Yes (= Consumption), Media Center, ,<br>Sink, Main Bldg, 1st Floor  | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-20         | 20: LWES-19F First-Draw | 03/01/2024 6:07 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-21         | 21: LWES-20F First-Draw | 03/01/2024 6:09 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-22         | 22: LWES-21F First-Draw | 03/01/2024 6:11 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-23         | 23: LWES-22F First-Draw | 03/01/2024 6:12 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-24         | 24: LWES-23F First-Draw | 03/01/2024 6:13 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |

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| <b>Client:</b> Howard County Public School System            | <b>Job Location:</b> 9250 North Laurel Road, Laurel, MD 20723 | <b>Date Analyzed:</b> 03/15/2024              |
| <b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042 | <b>Job Number:</b> 13.065                                     | <b>Report Date:</b> 03/15/2024                |
| <b>Attention:</b> Christopher Madden                         | <b>P.O. Number:</b> Not Provided                              | <b>Date Sampled:</b> 03/01/2024 - 03/05/2024  |
|  |   | <b>Person Submitting:</b> John D. Farmer, III |

## Summary of Drinking Water Analysis for Metals

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|-------------------|--------------------------|--------------------|---|---------------|----------------|-----------------|--------------|----------|
| 656084-25         | 25: LWES-24F First-Draw  | 03/01/2024 6:15 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor                                       | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-26         | 26: LWES-25F First-Draw  | 03/01/2024 6:16 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor                                       | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-27         | 27: LWES-26 First-Draw   | 03/01/2024 6:17 AM | Drinking Water Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Hallway, ,<br>Bubbler, Main Bldg, 1st Floor   | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-28         | 28: LWES-27 First-Draw   | 03/01/2024 6:18 AM | Bottle Filler/Drinking Fountain Combo Unit -<br>Fountain - Cooler/Chiller Style (Refrigerated), Yes (= Consumption), Hallway, ,<br>Bottle Filler, Main Bldg,<br>1st Floor | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-29         | 29: LWES-27BW First-Draw | 03/05/2024 6:45 AM | Bottle Filler/Drinking Fountain Combo Unit - Bottle<br>Filler, Yes (= Consumption), Hallway, ,<br>Bubbler,<br>Main Bldg, 1st Floor  | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-30         | 30: LWES-28F First-Draw  | 03/01/2024 6:26 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor                                       | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-31         | 31: LWES-29F First-Draw  | 03/01/2024 6:24 AM | Combination Sink - Fountain - Bubblers Style (Non-Refrigerated), Yes (= Consumption), Classroom, ,<br>Bubbler, Main Bldg, 1st Floor                                       | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |
| 656084-32         | 32: LWES-30 First-Draw   | 03/05/2024 6:50 AM | Faucet, Cold, Yes (= Consumption), Kitchen, ,<br>Sink,<br>Main Bldg, 1st Floor  | Furnace AA    | Lead           | 1 ug/L          | 3.8 ug/L     |          |
| 656084-33         | 33: LWES-31 First-Draw   | 03/01/2024 6:34 AM | Refrigerator Water Dispenser -- Not required if non-<br>metal water line, Yes (= Consumption), Teachers'<br>Lounge/Break Room, ,<br>Dispenser, Main Bldg, 1st<br>Floor    | Furnace AA    | Lead           | 1 ug/L          | <1 ug/L      |          |

Analysis Method: APHA SM 3113B (GFAA)  
Preparation Method: None  
mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

Sample Collector: Christopher Williams/John D. Farmer, III  
Certification:

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

**Analyst(s):** Nida McGarvey



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| <b>Client:</b> Howard County Public School System            | <b>Job Location:</b> 9250 North Laurel Road, Laurel, MD 20723 | <b>Date Analyzed:</b> 03/15/2024              |
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| <b>Attention:</b> Christopher Madden                         | <b>P.O. Number:</b> Not Provided                              | <b>Date Sampled:</b> 03/01/2024 - 03/05/2024  |
|  |   | <b>Person Submitting:</b> John D. Farmer, III |

## Summary of Drinking Water Analysis for Metals

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|-------------------|----------------------|-----------|----------|---------------|----------------|-----------------|--------------|----------|
|-------------------|----------------------|-----------|----------|---------------|----------------|-----------------|--------------|----------|

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

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# CERTIFICATE OF ANALYSIS

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| <b>Chain of Custody:</b> 656344                              | <b>Job Name:</b> Laurel Woods Elementary School               | <b>Date Submitted:</b> 03/18/2024  |
| <b>Client:</b> Howard County Public School System            | <b>Job Location:</b> 9250 North Laurel Road, Laurel, MD 20723 | <b>Date Analyzed:</b> 03/19/2024   |
| <b>Address:</b> 10910 Route 108 Ellicott City Maryland 21042 | <b>Job Number:</b> 13.065                                     | <b>Report Date:</b> 03/19/2024   |
| <b>Attention:</b> Christopher Madden                         | <b>P.O. Number:</b> Not Provided                              | <b>Date Sampled:</b> 03/18/2024<br><b>Person Submitting:</b> John D. Farmer, III |

## 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 |
|-------------------|----------------------|---------------------|---|---------------|----------------|-----------------|--------------|----------|
| 656344-1          | 1: LWES-1 Flush      | 03/18/2024 11:39 AM | Faucet, Cold, Yes (= Consumption), Kitchen, , Right Hand Sink, Main Bldg, 1st Floor | ICP           | Lead           | 0.5 ug/L        | <0.5 ug/L    |          |

Sample Collector: John D. Farmer, III  
 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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