



LRC Indoor Testing and Research  
140 Iowa Lane, Suite 102  
Cary, NC 27511  
(919) 342-4936

## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
Ian Adams  
3020 S Wrightsville Ave  
Nags Head, NC

Project #: 24-3291  
Project Location: Administrative Office

Project Type: IAQ  
PO/Claim #:

**Table 1: Non-Viable Air Samples**

| Date Collected:                                           | 11/15/24        | 11/15/24            | 11/15/24        | 11/15/24        | 11/15/24        |
|-----------------------------------------------------------|-----------------|---------------------|-----------------|-----------------|-----------------|
|                                                           | 1               | 2                   | 3               | 4               | 5               |
| Spore Identification                                      | Lobby           | Hall at 143         | Hall at 143     | Hall at 115     | Office 133      |
| <i>Cladosporium</i>                                       | 27              | 80                  | 40              | 27              | 27              |
| Ascospores                                                | 13              | 13                  | -               | -               | 27              |
| Basidiospores <sup>2</sup>                                | 13              | -                   | 40              | 27              | 13              |
| Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup> | 13              | -                   | 13              | 40              | -               |
| <i>Penicillium/Aspergillus</i> Group <sup>1</sup>         | 67              | 67                  | 13              | -               | 13              |
| Hyphal Elements <sup>3</sup>                              | 13              | 13                  | -               | -               | 13              |
| <i>Alternaria</i>                                         | -               | -                   | -               | -               | -               |
| <i>Curvularia</i>                                         | -               | 53                  | 13              | -               | -               |
| <i>Epicoccum</i>                                          | -               | 13                  | -               | -               | -               |
| <i>Cercospora</i>                                         | -               | -                   | -               | -               | -               |
| <i>Arthrrium</i>                                          | -               | -                   | -               | -               | -               |
| Clear Brown                                               | -               | -                   | -               | -               | -               |
| Colorless                                                 | -               | -                   | -               | -               | -               |
| Trichocladium                                             | -               | -                   | -               | -               | -               |
| Unidentified                                              | -               | -                   | 13              | -               | -               |
| <i>Ulocladium</i>                                         | -               | -                   | -               | -               | -               |
| Torula                                                    | -               | -                   | -               | -               | -               |
| Pithomyces                                                | -               | -                   | -               | -               | -               |
| Rust <sup>5</sup>                                         | -               | -                   | -               | 13              | -               |
| <i>Drechslera/Bipolaris</i>                               | -               | 13                  | -               | -               | -               |
| <i>Tetraploa</i>                                          | -               | -                   | -               | -               | -               |
| <i>Chaetomium</i>                                         | -               | -                   | -               | -               | -               |
| <i>Stachybotrys</i>                                       | -               | -                   | -               | -               | -               |
|                                                           | -               | -                   | -               | -               | -               |
| <b>Total Spores/m<sup>3</sup></b>                         | <b>147</b>      | <b>253</b>          | <b>133</b>      | <b>107</b>      | <b>93</b>       |
| <b>Particulate Level</b>                                  | <b>low</b>      | <b>low-moderate</b> | <b>low</b>      | <b>low</b>      | <b>low</b>      |
| <b>Date Analyzed:</b>                                     | <b>11/18/24</b> | <b>11/18/24</b>     | <b>11/18/24</b> | <b>11/18/24</b> | <b>11/18/24</b> |

Analyzed by: Cathy A. Richmond, B.S.

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3020 S Wrightsville Ave  
Nags Head, NC

Project #: 24-3291  
Project Location: Administrative Office

Project Type: IAQ  
PO/Claim #:

**Table 1: Non-Viable Air Samples**

| Date Collected:                                           | 11/15/24           | 11/15/24            | 11/15/24            | 11/15/24            | 11/15/24        |
|-----------------------------------------------------------|--------------------|---------------------|---------------------|---------------------|-----------------|
|                                                           | 6                  | 7                   | 8                   | 9                   | 10              |
| Spore Identification                                      | Hall at Board Room | Hall at 247         | Hall at 272         | Hall at 220         | Office 214      |
| <i>Cladosporium</i>                                       | 93                 | 27                  | 40                  | 27                  | 40              |
| Ascospores                                                | -                  | 13                  | -                   | -                   | -               |
| Basidiospores <sup>2</sup>                                | 27                 | 40                  | 13                  | -                   | 13              |
| Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup> | 13                 | 13                  | 13                  | 40                  | 27              |
| <i>Penicillium/Aspergillus</i> Group <sup>1</sup>         | 27                 | 13                  | -                   | -                   | 40              |
| Hyphal Elements <sup>3</sup>                              | -                  | -                   | -                   | 13                  | -               |
| <i>Alternaria</i>                                         | -                  | -                   | -                   | -                   | -               |
| <i>Curvularia</i>                                         | -                  | -                   | -                   | -                   | -               |
| <i>Epicoccum</i>                                          | -                  | -                   | -                   | -                   | -               |
| <i>Cercospora</i>                                         | -                  | -                   | -                   | -                   | -               |
| <i>Arthrinium</i>                                         | -                  | -                   | -                   | -                   | -               |
| Clear Brown                                               | -                  | -                   | -                   | -                   | -               |
| Colorless                                                 | -                  | -                   | -                   | -                   | -               |
| <i>Trichocladium</i>                                      | -                  | -                   | -                   | -                   | -               |
| Unidentified                                              | -                  | -                   | 13                  | -                   | -               |
| <i>Ulocladium</i>                                         | -                  | 27                  | -                   | -                   | -               |
| <i>Torula</i>                                             | -                  | -                   | -                   | -                   | -               |
| <i>Pithomyces</i>                                         | -                  | -                   | -                   | -                   | -               |
| Rust <sup>5</sup>                                         | -                  | -                   | -                   | -                   | -               |
| <i>Drechslera/Bipolaris</i>                               | -                  | -                   | -                   | 13                  | -               |
| <i>Tetraploa</i>                                          | -                  | -                   | -                   | -                   | -               |
| <i>Chaetomium</i>                                         | -                  | -                   | -                   | -                   | -               |
| <i>Stachybotrys</i>                                       | -                  | -                   | -                   | -                   | -               |
|                                                           | -                  | -                   | -                   | -                   | -               |
| <b>Total Spores/m<sup>3</sup></b>                         | <b>160</b>         | <b>133</b>          | <b>80</b>           | <b>93</b>           | <b>120</b>      |
| <b>Particulate Level</b>                                  | <b>low</b>         | <b>low-moderate</b> | <b>low-moderate</b> | <b>low-moderate</b> | <b>low</b>      |
| <b>Date Analyzed:</b>                                     | <b>11/18/24</b>    | <b>11/18/24</b>     | <b>11/18/24</b>     | <b>11/18/24</b>     | <b>11/18/24</b> |

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## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools  
Ian Adams  
3020 S Wrightsville Ave  
Nags Head, NC

Project #: 24-3291  
Project Location: Administrative Office

Project Type: IAQ

PO/Claim #:

Table 1: Non-Viable Air Samples

| Date Collected:                                           | 11/15/24    |
|-----------------------------------------------------------|-------------|
| Spore Identification                                      | 11          |
|                                                           | Outdoor Air |
| <i>Cladosporium</i>                                       | 320         |
| Ascospores                                                | 147         |
| Basidiospores <sup>2</sup>                                | 40          |
| Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup> | 67          |
| <i>Penicillium/Aspergillus</i> Group <sup>1</sup>         | 53          |
| Hyphal Elements <sup>3</sup>                              | 27          |
| <i>Alternaria</i>                                         | -           |
| <i>Curvularia</i>                                         | -           |
| <i>Epicoccum</i>                                          | -           |
| <i>Cercospora</i>                                         | -           |
| <i>Arthrrium</i>                                          | -           |
| Clear Brown                                               | -           |
| Colorless                                                 | -           |
| Trichocladium                                             | -           |
| Unidentified                                              | -           |
| <i>Ulocladium</i>                                         | -           |
| Torula                                                    | -           |
| Pithomyces                                                | -           |
| Rust <sup>5</sup>                                         | -           |
| <i>Drechslera/Bipolaris</i>                               | -           |
| <i>Tetraploa</i>                                          | -           |
| <i>Chaetomium</i>                                         | -           |
| <i>Stachybotrys</i>                                       | -           |
|                                                           | -           |
| Total Spores/m <sup>3</sup>                               | 653         |
| Particulate Level                                         | low         |
| Date Analyzed:                                            | 11/18/24    |

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**Certificate of Laboratory Analysis****Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S Wrightsville Ave****Nags Head, NC****Project #: 24-3291****Project Location:** Administrative Office**Project Type:** IAQ**PO/Claim #:**

**Sample Number:** 1  
**Sample Location:** Lobby  
**Date Collected:** 11/15/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 11/18/24

**Volume (L):** 75  
**Percentage of Slide Read:** 100.0%  
**Detection Limit:** 13.33  
**Particulate Level:** low  
**Notes:**

| Spore Identification                  | Count     | Results    | Units                       | Percentage |
|---------------------------------------|-----------|------------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 2         | 27         | spores/m <sup>3</sup>       | 18%        |
| Ascospores                            | 1         | 13         | spores/m <sup>3</sup>       | 9%         |
| Basidiospores                         | 1         | 13         | spores/m <sup>3</sup>       | 9%         |
| Smuts, <i>Periconia</i> , Myxomycetes | 1         | 13         | spores/m <sup>3</sup>       | 9%         |
| <i>Penicillium/Aspergillus</i> Group  | 5         | 67         | spores/m <sup>3</sup>       | 45%        |
| Hyphal Elements                       | 1         | 13         | spores/m <sup>3</sup>       | 9%         |
| <i>Alternaria</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Epicoecum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Arthrimum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |           | -          | spores/m <sup>3</sup>       | -          |
| Colorless                             |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |           | -          | spores/m <sup>3</sup>       | -          |
| Unidentified                          |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Torula                                |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Rust                                  |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |           | -          | spores/m <sup>3</sup>       | -          |
|                                       |           | -          | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>11</b> | <b>147</b> | <b>spores/m<sup>3</sup></b> |            |

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**Certificate of Laboratory Analysis****Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S Wrightsville Ave****Nags Head, NC****Project #: 24-3291****Project Location:** Administrative Office**Project Type:** IAQ**PO/Claim #:****Sample Number:** 2**Sample Location:** Hall at 143**Date Collected:** 11/15/24**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/18/24**Volume (L):** 75**Percentage of Slide Read:** 100.0%**Detection Limit:** 13.33**Particulate Level:** low-moderate**Notes:**

| Spore Identification                  | Count     | Results    | Units                       | Percentage |
|---------------------------------------|-----------|------------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 6         | 80         | spores/m <sup>3</sup>       | 32%        |
| Ascospores                            | 1         | 13         | spores/m <sup>3</sup>       | 5%         |
| Basidiospores                         |           | -          | spores/m <sup>3</sup>       | -          |
| Smuts, <i>Periconia</i> , Myxomycetes |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Penicillium/Aspergillus</i> Group  | 5         | 67         | spores/m <sup>3</sup>       | 26%        |
| Hyphal Elements                       | 1         | 13         | spores/m <sup>3</sup>       | 5%         |
| <i>Alternaria</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     | 4         | 53         | spores/m <sup>3</sup>       | 21%        |
| <i>Epicoecum</i>                      | 1         | 13         | spores/m <sup>3</sup>       | 5%         |
| <i>Cercospora</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Arthrimum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |           | -          | spores/m <sup>3</sup>       | -          |
| Colorless                             |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |           | -          | spores/m <sup>3</sup>       | -          |
| Unidentified                          |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Torula                                |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Rust                                  |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           | 1         | 13         | spores/m <sup>3</sup>       | 5%         |
| <i>Tetraploa</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |           | -          | spores/m <sup>3</sup>       | -          |
|                                       |           | -          | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>19</b> | <b>253</b> | <b>spores/m<sup>3</sup></b> |            |

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## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S Wrightsville Ave

Nags Head, NC

Project #: 24-3291

Project Location: Administrative Office

Project Type: IAQ

PO/Claim #:

Sample Number: 3

Sample Location: Hall at 143

Date Collected: 11/15/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/18/24

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: low

Notes:

| Spore Identification                  | Count     | Results    | Units                       | Percentage |
|---------------------------------------|-----------|------------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 3         | 40         | spores/m <sup>3</sup>       | 30%        |
| Ascospores                            |           | -          | spores/m <sup>3</sup>       | -          |
| Basidiospores                         | 3         | 40         | spores/m <sup>3</sup>       | 30%        |
| Smuts, <i>Periconia</i> , Myxomycetes | 1         | 13         | spores/m <sup>3</sup>       | 10%        |
| <i>Penicillium/Aspergillus</i> Group  | 1         | 13         | spores/m <sup>3</sup>       | 10%        |
| Hyphal Elements                       |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Alternaria</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     | 1         | 13         | spores/m <sup>3</sup>       | 10%        |
| <i>Epicoecum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Arthrimum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |           | -          | spores/m <sup>3</sup>       | -          |
| Colorless                             |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |           | -          | spores/m <sup>3</sup>       | -          |
| Unidentified                          | 1         | 13         | spores/m <sup>3</sup>       | 10%        |
| <i>Ulocladium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Torula                                |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Rust                                  |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |           | -          | spores/m <sup>3</sup>       | -          |
|                                       |           | -          | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>10</b> | <b>133</b> | <b>spores/m<sup>3</sup></b> |            |

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### Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S Wrightsville Ave

Nags Head, NC

Project #: 24-3291

Project Location: Administrative Office

Project Type: IAQ

PO/Claim #:

Sample Number: 4  
Sample Location: Hall at 115  
Date Collected: 11/15/24  
Test Requested: Non-viable spore trap analysis  
Date Analyzed: 11/18/24

Volume (L): 75  
Percentage of Slide Read: 100.0%  
Detection Limit: 13.33  
Particulate Level: low  
Notes:

| Spore Identification                  | Count    | Results    | Units                       | Percentage |
|---------------------------------------|----------|------------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 2        | 27         | spores/m <sup>3</sup>       | 25%        |
| Ascospores                            |          | -          | spores/m <sup>3</sup>       | -          |
| Basidiospores                         | 2        | 27         | spores/m <sup>3</sup>       | 25%        |
| Smuts, <i>Periconia</i> , Myxomycetes | 3        | 40         | spores/m <sup>3</sup>       | 38%        |
| <i>Penicillium/Aspergillus</i> Group  |          | -          | spores/m <sup>3</sup>       | -          |
| Hyphal Elements                       |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Alternaria</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Epicoccum</i>                      |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Arthrrium</i>                      |          | -          | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |          | -          | spores/m <sup>3</sup>       | -          |
| Colorless                             |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |          | -          | spores/m <sup>3</sup>       | -          |
| Unidentified                          |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| Torula                                |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| Rust                                  | 1        | 13         | spores/m <sup>3</sup>       | 13%        |
| <i>Drechslera/Bipolaris</i>           |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |          | -          | spores/m <sup>3</sup>       | -          |
|                                       |          | -          | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>8</b> | <b>107</b> | <b>spores/m<sup>3</sup></b> |            |

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**Certificate of Laboratory Analysis****Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S Wrightsville Ave****Nags Head, NC****Project #: 24-3291****Project Location:** Administrative Office**Project Type:** IAQ**PO/Claim #:**

**Sample Number:** 5  
**Sample Location:** Office 133  
**Date Collected:** 11/15/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 11/18/24

**Volume (L):** 75  
**Percentage of Slide Read:** 100.0%  
**Detection Limit:** 13.33  
**Particulate Level:** low  
**Notes:**

| Spore Identification                  | Count    | Results   | Units                       | Percentage |
|---------------------------------------|----------|-----------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 2        | 27        | spores/m <sup>3</sup>       | 29%        |
| Ascospores                            | 2        | 27        | spores/m <sup>3</sup>       | 29%        |
| Basidiospores                         | 1        | 13        | spores/m <sup>3</sup>       | 14%        |
| Smuts, <i>Periconia</i> , Myxomycetes |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Penicillium/Aspergillus</i> Group  | 1        | 13        | spores/m <sup>3</sup>       | 14%        |
| Hyphal Elements                       | 1        | 13        | spores/m <sup>3</sup>       | 14%        |
| <i>Alternaria</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Epicoccum</i>                      |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Arthrinium</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |          | -         | spores/m <sup>3</sup>       | -          |
| Colorless                             |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |          | -         | spores/m <sup>3</sup>       | -          |
| Unidentified                          |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| Torula                                |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| Rust                                  |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |          | -         | spores/m <sup>3</sup>       | -          |
|                                       |          | -         | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>7</b> | <b>93</b> | <b>spores/m<sup>3</sup></b> |            |

Analyzed by: Cathy A. Richmond, B.S.

**LRC Indoor Testing and Research**

140 Iowa Lane, Suite 102

Cary, NC 27511

(919) 342-4936

**Certificate of Laboratory Analysis****Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S Wrightsville Ave****Nags Head, NC****Project #: 24-3291****Project Location:** Administrative Office**Project Type:** IAQ**PO/Claim #:**

**Sample Number:** 6  
**Sample Location:** Hall at Board Room  
**Date Collected:** 11/15/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 11/18/24

**Volume (L):** 75  
**Percentage of Slide Read:** 100.0%  
**Detection Limit:** 13.33  
**Particulate Level:** low  
**Notes:**

| Spore Identification                  | Count     | Results    | Units                       | Percentage |
|---------------------------------------|-----------|------------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 7         | 93         | spores/m <sup>3</sup>       | 58%        |
| Ascospores                            |           | -          | spores/m <sup>3</sup>       | -          |
| Basidiospores                         | 2         | 27         | spores/m <sup>3</sup>       | 17%        |
| Smuts, <i>Periconia</i> , Myxomycetes | 1         | 13         | spores/m <sup>3</sup>       | 8%         |
| <i>Penicillium/Aspergillus</i> Group  | 2         | 27         | spores/m <sup>3</sup>       | 17%        |
| Hyphal Elements                       |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Alternaria</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Epicoecum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Arthrimum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |           | -          | spores/m <sup>3</sup>       | -          |
| Colorless                             |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |           | -          | spores/m <sup>3</sup>       | -          |
| Unidentified                          |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Torula                                |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Rust                                  |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |           | -          | spores/m <sup>3</sup>       | -          |
|                                       |           | -          | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>12</b> | <b>160</b> | <b>spores/m<sup>3</sup></b> |            |

Analyzed by: Cathy A. Richmond, B.S.



LRC Indoor Testing and Research

140 Iowa Lane, Suite 102

Cary, NC 27511

(919) 342-4936

## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S Wrightsville Ave

Nags Head, NC

Project #: 24-3291

Project Location: Administrative Office

Project Type: IAQ

PO/Claim #:

Sample Number: 7

Sample Location: Hall at 247

Date Collected: 11/15/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/18/24

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: low-moderate

Notes:

| Spore Identification                  | Count     | Results    | Units                       | Percentage |
|---------------------------------------|-----------|------------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 2         | 27         | spores/m <sup>3</sup>       | 20%        |
| Ascospores                            | 1         | 13         | spores/m <sup>3</sup>       | 10%        |
| Basidiospores                         | 3         | 40         | spores/m <sup>3</sup>       | 30%        |
| Smuts, <i>Periconia</i> , Myxomycetes | 1         | 13         | spores/m <sup>3</sup>       | 10%        |
| <i>Penicillium/Aspergillus</i> Group  | 1         | 13         | spores/m <sup>3</sup>       | 10%        |
| Hyphal Elements                       |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Alternaria</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Epicoccum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Arthrinium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |           | -          | spores/m <sup>3</sup>       | -          |
| Colorless                             |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |           | -          | spores/m <sup>3</sup>       | -          |
| Unidentified                          |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     | 2         | 27         | spores/m <sup>3</sup>       | 20%        |
| Torula                                |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Rust                                  |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |           | -          | spores/m <sup>3</sup>       | -          |
|                                       |           | -          | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>10</b> | <b>133</b> | <b>spores/m<sup>3</sup></b> |            |

Analyzed by: Cathy A. Richmond, B.S.



LRC Indoor Testing and Research

140 Iowa Lane, Suite 102

Cary, NC 27511

(919) 342-4936

## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S Wrightsville Ave

Nags Head, NC

Project #: 24-3291

Project Location: Administrative Office

Project Type: IAQ

PO/Claim #:

Sample Number: 8

Sample Location: Hall at 272

Date Collected: 11/15/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/18/24

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: low-moderate

Notes:

| Spore Identification                  | Count    | Results   | Units                       | Percentage |
|---------------------------------------|----------|-----------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 3        | 40        | spores/m <sup>3</sup>       | 50%        |
| Ascospores                            |          | -         | spores/m <sup>3</sup>       | -          |
| Basidiospores                         | 1        | 13        | spores/m <sup>3</sup>       | 17%        |
| Smuts, <i>Periconia</i> , Myxomycetes | 1        | 13        | spores/m <sup>3</sup>       | 17%        |
| <i>Penicillium/Aspergillus</i> Group  |          | -         | spores/m <sup>3</sup>       | -          |
| Hyphal Elements                       |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Alternaria</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Epicoccum</i>                      |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Arthrrium</i>                      |          | -         | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |          | -         | spores/m <sup>3</sup>       | -          |
| Colorless                             |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |          | -         | spores/m <sup>3</sup>       | -          |
| Unidentified                          | 1        | 13        | spores/m <sup>3</sup>       | 17%        |
| <i>Ulocladium</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| Torula                                |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| Rust                                  |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |          | -         | spores/m <sup>3</sup>       | -          |
|                                       |          | -         | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>6</b> | <b>80</b> | <b>spores/m<sup>3</sup></b> |            |

Analyzed by: Cathy A. Richmond, B.S.



LRC Indoor Testing and Research

140 Iowa Lane, Suite 102

Cary, NC 27511

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## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S Wrightsville Ave

Nags Head, NC

Project #: 24-3291

Project Location: Administrative Office

Project Type: IAQ

PO/Claim #:

Sample Number: 9

Sample Location: Hall at 220

Date Collected: 11/15/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/18/24

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: low-moderate

Notes:

| Spore Identification                  | Count    | Results   | Units                       | Percentage |
|---------------------------------------|----------|-----------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 2        | 27        | spores/m <sup>3</sup>       | 29%        |
| Ascospores                            |          | -         | spores/m <sup>3</sup>       | -          |
| Basidiospores                         |          | -         | spores/m <sup>3</sup>       | -          |
| Smuts, <i>Periconia</i> , Myxomycetes | 3        | 40        | spores/m <sup>3</sup>       | 43%        |
| <i>Penicillium/Aspergillus</i> Group  |          | -         | spores/m <sup>3</sup>       | -          |
| Hyphal Elements                       | 1        | 13        | spores/m <sup>3</sup>       | 14%        |
| <i>Alternaria</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Epicoccum</i>                      |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Arthrrium</i>                      |          | -         | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |          | -         | spores/m <sup>3</sup>       | -          |
| Colorless                             |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |          | -         | spores/m <sup>3</sup>       | -          |
| Unidentified                          |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| Torula                                |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| Rust                                  |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           | 1        | 13        | spores/m <sup>3</sup>       | 14%        |
| <i>Tetraploa</i>                      |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |          | -         | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |          | -         | spores/m <sup>3</sup>       | -          |
|                                       |          | -         | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>7</b> | <b>93</b> | <b>spores/m<sup>3</sup></b> |            |

Analyzed by: Cathy A. Richmond, B.S.



LRC Indoor Testing and Research

140 Iowa Lane, Suite 102

Cary, NC 27511

(919) 342-4936

## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S Wrightsville Ave

Nags Head, NC

Project #: 24-3291

Project Location: Administrative Office

Project Type: IAQ

PO/Claim #:

Sample Number: 10  
Sample Location: Office 214  
Date Collected: 11/15/24  
Test Requested: Non-viable spore trap analysis  
Date Analyzed: 11/18/24

Volume (L): 75  
Percentage of Slide Read: 100.0%  
Detection Limit: 13.33  
Particulate Level: low  
Notes:

| Spore Identification                  | Count    | Results    | Units                       | Percentage |
|---------------------------------------|----------|------------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 3        | 40         | spores/m <sup>3</sup>       | 33%        |
| Ascospores                            |          | -          | spores/m <sup>3</sup>       | -          |
| Basidiospores                         | 1        | 13         | spores/m <sup>3</sup>       | 11%        |
| Smuts, <i>Periconia</i> , Myxomycetes | 2        | 27         | spores/m <sup>3</sup>       | 22%        |
| <i>Penicillium/Aspergillus</i> Group  | 3        | 40         | spores/m <sup>3</sup>       | 33%        |
| Hyphal Elements                       |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Alternaria</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Epicoccum</i>                      |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Arthrrium</i>                      |          | -          | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |          | -          | spores/m <sup>3</sup>       | -          |
| Colorless                             |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |          | -          | spores/m <sup>3</sup>       | -          |
| Unidentified                          |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| Torula                                |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| Rust                                  |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |          | -          | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |          | -          | spores/m <sup>3</sup>       | -          |
|                                       |          | -          | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>9</b> | <b>120</b> | <b>spores/m<sup>3</sup></b> |            |

Analyzed by: Cathy A. Richmond, B.S.

**LRC Indoor Testing and Research**

140 Iowa Lane, Suite 102

Cary, NC 27511

(919) 342-4936

**Certificate of Laboratory Analysis****Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S Wrightsville Ave****Nags Head, NC****Project #: 24-3291****Project Location:** Administrative Office**Project Type:** IAQ**PO/Claim #:**

**Sample Number:** 11  
**Sample Location:** Outdoor Air  
**Date Collected:** 11/15/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 11/18/24

**Volume (L):** 75  
**Percentage of Slide Read:** 100.0%  
**Detection Limit:** 13.33  
**Particulate Level:** low  
**Notes:**

| Spore Identification                  | Count     | Results    | Units                       | Percentage |
|---------------------------------------|-----------|------------|-----------------------------|------------|
| <i>Cladosporium</i>                   | 24        | 320        | spores/m <sup>3</sup>       | 49%        |
| Ascospores                            | 11        | 147        | spores/m <sup>3</sup>       | 22%        |
| Basidiospores                         | 3         | 40         | spores/m <sup>3</sup>       | 6%         |
| Smuts, <i>Periconia</i> , Myxomycetes | 5         | 67         | spores/m <sup>3</sup>       | 10%        |
| <i>Penicillium/Aspergillus</i> Group  | 4         | 53         | spores/m <sup>3</sup>       | 8%         |
| Hyphal Elements                       | 2         | 27         | spores/m <sup>3</sup>       | 4%         |
| <i>Alternaria</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Curvularia</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Epicoecum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Cercospora</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Arthrimum</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| Clear Brown                           |           | -          | spores/m <sup>3</sup>       | -          |
| Colorless                             |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Trichocladium</i>                  |           | -          | spores/m <sup>3</sup>       | -          |
| Unidentified                          |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Ulocladium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Torula                                |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Pithomyces</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| Rust                                  |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Drechslera/Bipolaris</i>           |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Tetraploa</i>                      |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Chaetomium</i>                     |           | -          | spores/m <sup>3</sup>       | -          |
| <i>Stachybotrys</i>                   |           | -          | spores/m <sup>3</sup>       | -          |
|                                       |           | -          | spores/m <sup>3</sup>       | -          |
| <b>Total Spores</b>                   | <b>49</b> | <b>653</b> | <b>spores/m<sup>3</sup></b> |            |

Analyzed by: Cathy A. Richmond, B.S.



LRC Indoor Testing and Research

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Cary, NC 27511

(919) 342-4936

## Certificate of Laboratory Analysis

Project #: **24-3291**

### Report Information:

**DETECTION LIMITS (DL)** for samples are the minimum number of spores or colonies forming units that can be satisfactorily identified for each sample type.

**SPORE TRAP SAMPLES:** Calculations based on volume of air sampled & percentage of slide counted, i.e. DL = 1000 L / 75 L if 100% of the slide is counted.

**CODE 11:** Fungal content and/or particulate level on slide too heavy to identify and enumerate fungal content.

### Footnotes:

1. *Penicillium/Aspergillus* group spores are characterized by their small size, round to ovoid shape, being unicellular and usually colorless to lightly pigmented. There are numerous genera of fungi whose spore morphology is similar to that of the *Penicillium/Aspergillus* type. Several common examples would be *Acremonium*, *Paecilomyces*, and *Trichoderma*. Although the majority of spores placed in this group are *Penicillium*, *Aspergillus*, or a combination of both, these are not the only two possibilities.
2. Basidiospores are primarily transported indoors from outdoor sources and rarely grow indoors. A high basidiospore count indoors can be indicative of a wood decay problem or wet soil, and should be verified if and an outdoor source of the spores is not present.
3. Hyphae are the tubular filaments of fungi. Hyphae can fragment and become airborne much like spores and are potentially allergenic.
4. The Smut, *Periconia*, Myxomycete group is a group composed of three different types of organisms whose spores have similar morphologies. Smuts are plant pathogens, *Periconia* is a relatively uncommon mold indoors, and Myxomycetes are not fungi, but slime molds. Although these organisms do not typically proliferate indoors, their spores are potentially allergenic.
5. Rusts are plant pathogens. These fungi do not typically grow indoors unless an infected plant is present. Rust spores are potentially allergenic.

### Direct Microscopic Exam Reporting:

We use a 400x-600x magnification microscope.

Reporting Quantification Levels are as follows:

| Reporting Level | Quantitative Description        |
|-----------------|---------------------------------|
| Occasional      | 1-10 per square inch            |
| Few             | 11-100 per square inch          |
| Moderate        | 101-1000 per square inch        |
| Numerous        | More than 1,000 per square inch |

Submitted By Analyst:

**Cathy A. Richmond, BS**

11/18/2024