



**Certificate of Laboratory Analysis**  
**Non-Viable Spore Trap Analysis**

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

**Project #:** 24-2414  
**Project Location:** Manteo Middle School  
**Project Type:** IAQ  
**PO/Claim #:** -

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

Date Collected:	5/2/24	5/2/24	5/2/24	5/2/24	5/2/24
	1	2	3	4	5
Spore Identification	Cafeteria	Gym	Art Room	Hall at Reception	Library
<i>Cladosporium</i>	107	147	120	93	67
Ascospores	27	-	13	13	27
Basidiospores <sup>2</sup>	13	27	13	27	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	27	27	-	27	40
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	13	40	80	53	27
Hyphal Elements <sup>3</sup>	53	93	40	-	53
<i>Alternaria</i>	-	13	-	-	-
<i>Curvularia</i>	27	13	53	-	40
<i>Epicoccum</i>	-	13	13	13	27
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	13	-	-	40
Unidentified	13	-	13	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	13	-	-	-
Rust <sup>5</sup>	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	13	27	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>280</b>	<b>413</b>	<b>373</b>	<b>227</b>	<b>333</b>
<b>Particulate Level</b>	<b>low-moderate</b>	<b>moderate</b>	<b>moderate</b>	<b>low-moderate</b>	<b>moderate</b>
<b>Date Analyzed:</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>

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

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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 #: **24-2414**  
 Project Location: Manteo Middle School  
 Project Type: IAQ  
 PO/Claim #: -

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

Date Collected:	5/2/24	5/2/24	5/2/24	5/2/24	5/2/24
	6	7	8	9	10
Spore Identification	Hall at D14	Hall at E5	E4	CR D6	Second Floor Center
<i>Cladosporium</i>	27	40	27	27	53
Ascospores	13	-	-	-	40
Basidiospores <sup>2</sup>	-	-	-	-	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	40	27	27	-	13
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	40	27	-	13	13
Hyphal Elements <sup>3</sup>	27	80	13	13	40
<i>Alternaria</i>	-	27	-	-	-
<i>Curvularia</i>	13	27	13	-	-
<i>Epicoccum</i>	13	27	-	-	13
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	13	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	13	-	-	-
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>187</b>	<b>280</b>	<b>80</b>	<b>53</b>	<b>187</b>
<b>Particulate Level</b>	<b>moderate</b>	<b>moderate</b>	<b>low-moderate</b>	<b>low-moderate</b>	<b>moderate</b>
<b>Date Analyzed:</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>

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 Ian Adams  
 3020 S Wrightsville Ave.  
 Nags Head, NC

Project #: 24-2414  
 Project Location: Manteo Middle School  
 Project Type: IAQ  
 PO/Claim #: -

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

Date Collected:	5/2/24	5/2/24	5/2/24	5/2/24	5/2/24
	11	12	13	14	15
Spore Identification	Hall at G9	CR G9	Hall at F6	CR 4	Outdoor Air
<i>Cladosporium</i>	27	40	27	13	7947
Ascospores	13	13	-	-	427
Basidiospores <sup>2</sup>	40	13	13	-	373
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> <sup>4</sup>	27	13	-	27	213
<i>Penicillium/Aspergillus</i> Group <sup>1</sup>	13	-	-	-	320
Hyphal Elements <sup>3</sup>	40	13	13	27	53
<i>Alternaria</i>	-	-	-	-	213
<i>Curvularia</i>	-	13	-	27	53
<i>Epicoccum</i>	-	-	-	13	-
<i>Cercospora</i>	-	-	-	-	53
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	13	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust <sup>5</sup>	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
<b>Total Spores/m<sup>3</sup></b>	<b>173</b>	<b>107</b>	<b>53</b>	<b>107</b>	<b>9653</b>
<b>Particulate Level</b>	<b>low-moderate</b>	<b>low-moderate</b>	<b>low</b>	<b>moderate-heavy</b>	<b>low</b>
<b>Date Analyzed:</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>	<b>5/6/24</b>

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Dare County Schools

Ian Adams

3020 S Wrightsville Ave.

Nags Head, NC

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Project #: 24-2414

Project Location:

Manteo Middle School

Project Type: IAQ

PO/Claim #: -

Sample Number: 3

Sample Location: Art Room

Date Collected: 5/2/24

Test Requested: Non-viable spore trap analysis

Date Analyzed: 5/6/24

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: moderate

Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	9	120	spores/m <sup>3</sup>	32%
Ascospores	1	13	spores/m <sup>3</sup>	4%
Basidiospores	1	13	spores/m <sup>3</sup>	4%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m <sup>3</sup>	-
<i>Penicillium/Aspergillus</i> Group	6	80	spores/m <sup>3</sup>	21%
Hyphal Elements	3	40	spores/m <sup>3</sup>	11%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>	4	53	spores/m <sup>3</sup>	14%
<i>Epicoccum</i>	1	13	spores/m <sup>3</sup>	4%
<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	1	13	spores/m <sup>3</sup>	4%
<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>	2	27	spores/m <sup>3</sup>	7%
<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>28</b>	<b>373</b>	<b>spores/m<sup>3</sup></b>	

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





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 Ian Adams  
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 -

**Project #:** 24-2414  
**Project Location:** Manteo Middle School  
**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 5  
**Sample Location:** Library  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	5	67	spores/m <sup>3</sup>	20%
Ascospores	2	27	spores/m <sup>3</sup>	8%
Basidiospores	1	13	spores/m <sup>3</sup>	4%
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m <sup>3</sup>	12%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m <sup>3</sup>	8%
Hyphal Elements	4	53	spores/m <sup>3</sup>	16%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>	3	40	spores/m <sup>3</sup>	12%
<i>Epicoccum</i>	2	27	spores/m <sup>3</sup>	8%
<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>	3	40	spores/m <sup>3</sup>	12%
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>25</b>	<b>333</b>	<b>spores/m<sup>3</sup></b>	

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**Project #:** 24-2414  
**Project Location:** Manteo Middle School  
**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 6  
**Sample Location:** Hall at D14  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m <sup>3</sup>	14%
Ascospores	1	13	spores/m <sup>3</sup>	7%
Basidiospores		-	spores/m <sup>3</sup>	-
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m <sup>3</sup>	21%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m <sup>3</sup>	21%
Hyphal Elements	2	27	spores/m <sup>3</sup>	14%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>	1	13	spores/m <sup>3</sup>	7%
<i>Epicoccum</i>	1	13	spores/m <sup>3</sup>	7%
<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>	1	13	spores/m <sup>3</sup>	7%
<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>14</b>	<b>187</b>	<b>spores/m<sup>3</sup></b>	

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



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 3020 S Wrightsville Ave.  
 Nags Head, NC  
 -

**Project #:** 24-2414  
**Project Location:** Manteo Middle School  
**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 7  
**Sample Location:** Hall at E5  
**Date Collected:** 5/2/24  
**Test Requested:** Non-viable spore trap analysis  
**Date Analyzed:** 5/6/24

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

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m <sup>3</sup>	14%
Ascospores		-	spores/m <sup>3</sup>	-
Basidiospores		-	spores/m <sup>3</sup>	-
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	10%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m <sup>3</sup>	10%
Hyphal Elements	6	80	spores/m <sup>3</sup>	29%
<i>Alternaria</i>	2	27	spores/m <sup>3</sup>	10%
<i>Curvularia</i>	2	27	spores/m <sup>3</sup>	10%
<i>Epicoccum</i>	2	27	spores/m <sup>3</sup>	10%
<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	1	13	spores/m <sup>3</sup>	5%
<i>Ulocladium</i>		-	spores/m <sup>3</sup>	-
Torula		-	spores/m <sup>3</sup>	-
<i>Pithomyces</i>	1	13	spores/m <sup>3</sup>	5%
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>21</b>	<b>280</b>	<b>spores/m<sup>3</sup></b>	

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 Nags Head, NC  
 -

**Project #:** 24-2414  
**Project Location:** Manteo Middle School  
**Project Type:** IAQ  
**PO/Claim #:** -

**Sample Number:** 11      **Volume (L):** 75  
**Sample Location:** Hall at G9      **Percentage of Slide Read:** 100.0%  
**Date Collected:** 5/2/24      **Detection Limit:** 13.33  
**Test Requested:** Non-viable spore trap analysis      **Particulate Level:** low-moderate  
**Date Analyzed:** 5/6/24      **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m <sup>3</sup>	15%
Ascospores	1	13	spores/m <sup>3</sup>	8%
Basidiospores	3	40	spores/m <sup>3</sup>	23%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	15%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m <sup>3</sup>	8%
Hyphal Elements	3	40	spores/m <sup>3</sup>	23%
<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	1	13	spores/m <sup>3</sup>	8%
<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>13</b>	<b>173</b>	<b>spores/m<sup>3</sup></b>	

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







## Certificate of Laboratory Analysis

### Non-Viable Spore Trap Analysis

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

**Project #:** 24-2414  
**Project Location:** Manteo Middle School  
**Project Type:** - IAQ  
**PO/Claim #:** -

**Sample Number:** 14      **Volume (L):** 75  
**Sample Location:** CR 4      **Percentage of Slide Read:** 100.0%  
**Date Collected:** 5/2/24      **Detection Limit:** 13.33  
**Test Requested:** Non-viable spore trap analysis      **Particulate Level:** moderate-heavy  
**Date Analyzed:** 5/6/24      **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	1	13	spores/m <sup>3</sup>	13%
Ascospores		-	spores/m <sup>3</sup>	-
Basidiospores		-	spores/m <sup>3</sup>	-
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m <sup>3</sup>	25%
<i>Penicillium/Aspergillus</i> Group		-	spores/m <sup>3</sup>	-
Hyphal Elements	2	27	spores/m <sup>3</sup>	25%
<i>Alternaria</i>		-	spores/m <sup>3</sup>	-
<i>Curvularia</i>	2	27	spores/m <sup>3</sup>	25%
<i>Epicoccum</i>	1	13	spores/m <sup>3</sup>	13%
<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>8</b>	<b>107</b>	<b>spores/m<sup>3</sup></b>	

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





## Certificate of Laboratory Analysis

Project #: **24-2414**

**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**

5/6/2024