



Certificate of Laboratory Analysis
Non-Viable Spore Trap Analysis

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

Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Table 1: Non-Viable Air Samples

Date Collected:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23
	1	2	3	4	5
Spore Identification	Front of main hallway	Middle of main hallway	Rear of main hallway	Hall L	Hall M
<i>Cladosporium</i>	40	13	40	53	13
Ascospores	13	-	-	-	13
Basidiospores ²	27	13	27	13	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	-	13	-	13
<i>Penicillium/Aspergillus</i> Group ¹	-	27	13	27	27
Hyphal Elements ³	-	13	-	13	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	80	67	93	107	93
Particulate Level	low	low	low	low-moderate	low
Date Analyzed:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23

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

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Table 1: Non-Viable Air Samples

Date Collected:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23
	6	7	8	9	10
Spore Identification	M 110	Hall K	Hall L2	Hall J	Hall H
<i>Cladosporium</i>	27	13	120	27	40
Ascospores	-	-	-	-	13
Basidiospores ²	13	27	-	13	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	-	-	13	-
<i>Penicillium/Aspergillus</i> Group ¹	2840	-	160	-	200
Hyphal Elements ³	-	13	-	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	2880	53	280	53	253
Particulate Level	low	low	low	low	low-moderate
Date Analyzed:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23

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Table 1: Non-Viable Air Samples

Date Collected:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23
	11	12	13	14	15
Spore Identification	K 127	Media Room	H 109	Re-test 110 (retest of Sample 06)	Media Center (re-test of #12)
<i>Cladosporium</i>	40	67	40	27	67
Ascospores	-	27	13	-	13
Basidiospores ²	13	13	-	13	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	27	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	-	280	-	2573	320
Hyphal Elements ³	-	13	-	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	13
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	13
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	67	427	53	2613	427
Particulate Level	low	low-moderate	low-moderate	low-moderate	low-moderate
Date Analyzed:	8/22/23	8/22/23	8/22/23	8/22/23	8/22/23

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Table 1: Non-Viable Air Samples

Date Collected:	8/22/23	8/22/23	8/22/23	#REF!
	16	17	18	19
Spore Identification	Hall H (re-test of #10)	Media Center (Re-test)	Outdoor Air	M 110 - final re-test in closet
<i>Cladosporium</i>	40	40	800	27
Ascospores	27	27	1680	13
Basidiospores ²	27	40	640	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	80	13
<i>Penicillium/Aspergillus</i> Group ¹	-	107	240	-
Hyphal Elements ³	-	13	27	13
<i>Alternaria</i>	-	-	53	-
<i>Curvularia</i>	-	-	320	-
<i>Epicoccum</i>	-	-	-	-
<i>Cercospora</i>	-	-	-	-
<i>Arthrinium</i>	-	-	-	-
Clear Brown	-	-	-	-
Colorless	-	-	-	-
Trichocladium	-	-	-	-
Unidentified	-	-	-	-
<i>Ulocladium</i>	-	-	-	-
Torula	-	-	-	-
Pithomyces	-	13	27	-
Rust ⁵	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-
<i>Tetraploa</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-
	-	-	-	-
Total Spores/m³	93	253	3867	93
Particulate Level	low	low-moderate	low-moderate	low
Date Analyzed:	8/22/23	8/22/23	8/22/23	8/28/23

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 140 Iowa Lane, Suite 102
 Cary, NC 27511
 (919) 342-4936

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 Kill Devil Hills, NC
Project Type: -
 Clearance
PO/Claim #: -

Sample Number: 1
Sample Location: Front of main hallway
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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 ³	50%
Ascospores	1	13	spores/m ³	17%
Basidiospores	2	27	spores/m ³	33%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
Occasional Pollen		-	spores/m ³	-
Total Spores	6	80	spores/m³	

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Sample Number: 2
Sample Location: Middle of main hallway
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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>	1	13	spores/m ³	20%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	20%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	40%
Hyphal Elements	1	13	spores/m ³	20%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	5	67	spores/m³	

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Project Type: Clearance
PO/Claim #: -

Sample Number: 3 **Volume (L):** 75
Sample Location: Rear of main hallway **Percentage of Slide Read:** 100.0%
Date Collected: 8/22/23 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low
Date Analyzed: 8/22/23 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	43%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	29%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	14%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	14%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	7	93	spores/m³	

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Sample Number: 4
Sample Location: Hall L
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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>	4	53	spores/m ³	50%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	13%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	25%
Hyphal Elements	1	13	spores/m ³	13%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	8	107	spores/m³	

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Sample Number: 5
Sample Location: Hall M
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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>	1	13	spores/m ³	14%
Ascospores	1	13	spores/m ³	14%
Basidiospores	2	27	spores/m ³	29%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	14%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	29%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	7	93	spores/m³	

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Sample Number: 6
Sample Location: M 110
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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 ³	1%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	0%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	213	2840	spores/m ³	99%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	216	2880	spores/m³	

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



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 3020 S. Wrightsville Avenue
 Nags Head, NC

Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 7
Sample Location: Hall K
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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>	1	13	spores/m ³	25%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	50%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	1	13	spores/m ³	25%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	4	53	spores/m³	

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



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Non-Viable Spore Trap Analysis

Dare County Schools
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Nags Head, NC

Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 8
Sample Location: Hall L2
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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>	9	120	spores/m ³	43%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	12	160	spores/m ³	57%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	21	280	spores/m³	

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

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Non-Viable Spore Trap Analysis

Dare County Schools
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Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 9
Sample Location: Hall J
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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 ³	50%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	25%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	25%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	4	53	spores/m³	

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



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Non-Viable Spore Trap Analysis

Dare County Schools
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Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 10 **Volume (L):** 75
Sample Location: Hall H **Percentage of Slide Read:** 100.0%
Date Collected: 8/22/23 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low-moderate
Date Analyzed: 8/22/23 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	16%
Ascospores	1	13	spores/m ³	5%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	15	200	spores/m ³	79%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	19	253	spores/m³	

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Non-Viable Spore Trap Analysis

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Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 11
Sample Location: K 127
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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 ³	60%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	20%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	20%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	5	67	spores/m³	

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Non-Viable Spore Trap Analysis

Dare County Schools
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Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 12
Sample Location: Media Room
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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>	5	67	spores/m ³	16%
Ascospores	2	27	spores/m ³	6%
Basidiospores	1	13	spores/m ³	3%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	6%
<i>Penicillium/Aspergillus</i> Group	21	280	spores/m ³	66%
Hyphal Elements	1	13	spores/m ³	3%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	32	427	spores/m³	

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



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Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 13
Sample Location: H 109
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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 ³	75%
Ascospores	1	13	spores/m ³	25%
Basidiospores	-	-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	-	-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	-	-	spores/m ³	-
Hyphal Elements	-	-	spores/m ³	-
<i>Alternaria</i>	-	-	spores/m ³	-
<i>Curvularia</i>	-	-	spores/m ³	-
<i>Epicoccum</i>	-	-	spores/m ³	-
<i>Cercospora</i>	-	-	spores/m ³	-
<i>Arthrinium</i>	-	-	spores/m ³	-
Clear Brown	-	-	spores/m ³	-
Colorless	-	-	spores/m ³	-
<i>Trichocladium</i>	-	-	spores/m ³	-
Unidentified	-	-	spores/m ³	-
<i>Ulocladium</i>	-	-	spores/m ³	-
Torula	-	-	spores/m ³	-
<i>Pithomyces</i>	-	-	spores/m ³	-
Rust	-	-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	-	-	spores/m ³	-
<i>Tetraploa</i>	-	-	spores/m ³	-
<i>Chaetomium</i>	-	-	spores/m ³	-
<i>Stachybotrys</i>	-	-	spores/m ³	-
	-	-	spores/m ³	-
Total Spores	4	53	spores/m³	

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



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Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 14 **Volume (L):** 75
Sample Location: Re-test 110 (retest of Sample 06) **Percentage of Slide Read:** 100.0%
Date Collected: 8/22/23 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low-moderate
Date Analyzed: 8/22/23 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	1%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	1%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	193	2573	spores/m ³	98%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	196	2613	spores/m³	

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



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Non-Viable Spore Trap Analysis

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Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 15 **Volume (L):** 75
Sample Location: Media Center (re-test of #12) **Percentage of Slide Read:** 100.0%
Date Collected: 8/22/23 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low-moderate
Date Analyzed: 8/22/23 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	5	67	spores/m ³	16%
Ascospores	1	13	spores/m ³	3%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	24	320	spores/m ³	75%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified	1	13	spores/m ³	3%
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>	1	13	spores/m ³	3%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	32	427	spores/m³	

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

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Non-Viable Spore Trap Analysis

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Nags Head, NC

Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 16 **Volume (L):** 75
Sample Location: Hall H (re-test of #10) **Percentage of Slide Read:** 100.0%
Date Collected: 8/22/23 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low
Date Analyzed: 8/22/23 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	43%
Ascospores	2	27	spores/m ³	29%
Basidiospores	2	27	spores/m ³	29%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	7	93	spores/m³	

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Non-Viable Spore Trap Analysis

Dare County Schools
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 Nags Head, NC

Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 17
Sample Location: Media Center (Re-test)
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

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 ³	16%
Ascospores	2	27	spores/m ³	11%
Basidiospores	3	40	spores/m ³	16%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	5%
<i>Penicillium/Aspergillus</i> Group	8	107	spores/m ³	42%
Hyphal Elements	1	13	spores/m ³	5%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>	1	13	spores/m ³	5%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	19	253	spores/m³	

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



Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

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

Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 18
Sample Location: Outdoor Air
Date Collected: 8/22/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 8/22/23

Volume (L): 75
Percentage of Slide Read: 50.0%
Detection Limit: 26.67
Particulate Level: low-moderate
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	30	800	spores/m ³	21%
Ascospores	63	1680	spores/m ³	43%
Basidiospores	24	640	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes	3	80	spores/m ³	2%
<i>Penicillium/Aspergillus</i> Group	9	240	spores/m ³	6%
Hyphal Elements	1	27	spores/m ³	1%
<i>Alternaria</i>	2	53	spores/m ³	1%
<i>Curvularia</i>	12	320	spores/m ³	8%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>	1	27	spores/m ³	1%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	145	3867	spores/m³	

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



Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

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

Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC
Project Type: Clearance
PO/Claim #: -

Sample Number: 19 **Volume (L):** 75
Sample Location: M 110 - final re-test in closet **Percentage of Slide Read:** 100.0%
Date Collected: 8/23/23 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low
Date Analyzed: 8/28/23 **Notes:**

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	29%
Ascospores	1	13	spores/m ³	14%
Basidiospores	2	27	spores/m ³	29%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	14%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	1	13	spores/m ³	14%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>		-	spores/m ³	-
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>		-	spores/m ³	-
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>		-	spores/m ³	-
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	7	93	spores/m³	

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
Direct Microscopic Examination

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

Project #: 23-1831
Project Location: First Flight Middle School
 Kill Devil Hills, NC

Project Type: Clearance
PO/Claim #: -

Table 2: Non-Viable Surface Samples

Sample Number: 20 Sample Location: T-1 Room M 110 - bottom of round table Area: 1 in ² Test Requested: Direct Microscopic Examination Results: Occasional: Penicillium/Aspergillus Group Analyzed by: Cathy A. Richmond, B.S.	Date Collected: 8/22/23 Date Analyzed: 8/22/23
Sample Number: 21 Sample Location: T-2 Room M110 - bottom of rectangular table Area: 1 in ² Test Requested: Direct Microscopic Examination Results: Occasional: Penicillium/Aspergillus Group Analyzed by: Cathy A. Richmond, B.S.	Date Collected: 8/22/23 Date Analyzed: 8/22/23
Sample Number: 22 Sample Location: Room M 110 - Sink cabinet Area: 1 in ² Test Requested: Direct Microscopic Examination Results: Numerous: Penicillium/Aspergillus Group Numerous: Hyphal Elements Analyzed by: Cathy A. Richmond, B.S.	Date Collected: 8/22/23 Date Analyzed: 8/22/23
Sample Number: 23 Sample Location: H 109 - Cabinet Back Area: 1 in ² Test Requested: Direct Microscopic Examination Results: Numerous: Chaetomium Numerous: Hyphal Elements Analyzed by: Cathy A. Richmond, B.S.	Date Collected: 8/28/23 Date Analyzed: 8/28/23

The results reported by LRC are a record of the microbes identified by our laboratory staff. We assume responsibility over analysis conducted in the laboratory, but cannot assume responsibility for activities completed in the field by the client, other personnel associated with the samples submitted, or other activities beyond the laboratory. Any information given other than microbial information, is provided as general reference information from published sources and is not an extension of liability to LRC.



Certificate of Laboratory Analysis

Project #: **23-1831**

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

8/22/2023

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