



Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

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

Project #: 25-2451
Project Location: First Flight High School
 100 Veterans Drive
 Kill Devil Hills, NC 27948

Project Type: IAQ

PO/Claim #: -

Table 1: Non-Viable Air Samples

Date Collected:	11/10/25	11/10/25	11/10/25	11/10/25	11/10/25
	1	2	3	4	5
Spore Identification	Admin at workroom	Auditorium	Gym	Cafeteria	CR A304 - Chorus
<i>Cladosporium</i>	13	80	-	-	27
Ascospores	27	-	-	-	-
Basidiospores ²	13	27	27	13	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	-	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	-	-	-	-	-
Hyphal Elements ³	-	-	-	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrimum</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	13	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	80	107	27	13	53
Particulate Level	moderate	moderate	low-moderate	low-moderate	low
Date Analyzed:	11/24/25	11/24/25	11/24/25	11/24/25	11/24/25

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

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Table 1: Non-Viable Air Samples

Date Collected:	11/10/25	11/10/25	11/10/25	11/10/25	11/10/25
	6	7	8	9	10
Spore Identification	Hall at A201	CR B102	Counseling Center	CR B304	Hall at B309
<i>Cladosporium</i>	-	-	13	-	13
Ascospores	-	-	-	-	-
Basidiospores ²	40	27	13	13	13
Smuts, <i>Periconia</i> , Myxomycetes ⁴	-	-	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	-	-	13	27	133
Hyphal Elements ³	-	-	-	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	13
<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>	-	-	13	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	40	27	53	40	173
Particulate Level	low-moderate	low-moderate	moderate	low-moderate	moderate
Date Analyzed:	11/24/25	11/24/25	11/24/25	11/24/25	11/24/25

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Table 1: Non-Viable Air Samples

Date Collected:	11/10/25	11/10/25	11/10/25	11/10/25	11/10/25
	11	12	13	14	15
Spore Identification	CR B314	CR B312	Media Center	Workroom B216	Hall at B204
<i>Cladosporium</i>	27	27	13	27	27
Ascospores	-	-	-	40	-
Basidiospores ²	13	27	27	67	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	-	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	-	-	-	160	-
Hyphal Elements ³	-	-	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	40	53	53	293	27
Particulate Level	low-moderate	low-moderate	low-moderate	low-moderate	low-moderate
Date Analyzed:	11/24/25	11/24/25	11/24/25	11/24/25	11/24/25

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Table 1: Non-Viable Air Samples

Date Collected:	11/10/25	11/10/25	11/10/25	11/10/25	11/10/25
	16	17	18	19	20
Spore Identification	CR B214	CR D102	CR D110	Hall at D113	CR C306
<i>Cladosporium</i>	-	-	-	-	-
Ascospores	-	-	-	-	-
Basidiospores ²	13	13	27	13	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	40	13	-	-	-
Hyphal Elements ³	13	-	13	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>	-	-	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	67	40	40	27	27
Particulate Level	low	low-moderate	low	low-moderate	low
Date Analyzed:	11/24/25	11/24/25	11/24/25	11/24/25	11/24/25

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Table 1: Non-Viable Air Samples

Date Collected:	11/10/25	11/10/25	11/10/25	11/10/25	11/10/25
	21	22	23	24	25
Spore Identification	Hall at C312	CR C316	CR C101	CR C217	CR C210
<i>Cladosporium</i>	-	13	13	-	13
Ascospores	13	-	-	-	-
Basidiospores ²	27	27	67	27	13
Smuts, <i>Periconia</i> , Myxomycetes ⁴	-	-	-	-	-
<i>Penicillium/Aspergillus</i> Group ¹	-	-	-	-	-
Hyphal Elements ³	-	-	40	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>	-	-	27	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	40	40	147	40	27
Particulate Level	low	low	moderate	low	low
Date Analyzed:	11/24/25	11/24/25	11/24/25	11/24/25	11/24/25

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 Test 1
 Kill Devil Hills, NC 27948
 Project Type: IAQ
 PO/Claim #: -

Table 1: Non-Viable Air Samples

Date Collected:	11/10/25	11/10/25
	26	27
Spore Identification	Hall at C204/205	Outdoor Air
<i>Cladosporium</i>	27	80
Ascospores	13	53
Basidiospores ²	40	1693
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13
<i>Penicillium/Aspergillus</i> Group ¹	40	-
Hyphal Elements ³	-	-
<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	-	-
<i>Pithomyces</i>	-	-
Rust ⁵	-	-
<i>Drechslera/Bipolaris</i>	-	-
<i>Tetraploa</i>	-	-
<i>Chaetomium</i>	-	-
<i>Stachybotrys</i>	-	-
	-	-
Total Spores/m³	120	1840
Particulate Level	low-moderate	low-moderate
Date Analyzed:	11/24/25	11/24/25

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Sample Number: 26 **Volume (L):** 75
Sample Location: Hall at C204/205 **Percentage of Slide Read:** 100.0%
Date Collected: 11/10/25 **Detection Limit:** 13.33
Test Requested: Non-viable spore trap analysis **Particulate Level:** low-moderate
Date Analyzed: 11/24/25 **Notes:** -

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	22%
Ascospores	1	13	spores/m ³	11%
Basidiospores	3	40	spores/m ³	33%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	33%
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	9	120	spores/m³	

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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:

Table with 2 columns: Reporting Level, Quantitative Description. Rows include Occasional (1-10 per square inch), Few (11-100 per square inch), Moderate (101-1000 per square inch), and Numerous (More than 1,000 per square inch).

Submitted By Analyst:

Cathy A. Richmond (handwritten signature)

Cathy A. Richmond, BS

11/24/2025