



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 #: 24-2415
Project Location: Manteo High 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	Advanced Placement A200	Hall at 201	CR 206	D 202	Hall D 202
<i>Cladosporium</i>	13	27	67	67	133
Ascospores	-	27	-	27	27
Basidiospores ²	13	40	-	27	40
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	27	-	-	27	-
<i>Penicillium/Aspergillus</i> Group ¹	13	27	53	67	53
Hyphal Elements ³	-	-	27	13	-
<i>Alternaria</i>	-	-	13	-	-
<i>Curvularia</i>	13	13	-	13	-
<i>Epicoccum</i>	13	-	-	13	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	27	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	93	160	160	253	253
Particulate Level	low	low-moderate	low-moderate	low-moderate	low-moderate
Date Analyzed:	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24

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

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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	D201	Hall at 207/208	C 208	Hall at 213	Hall at 216
<i>Cladosporium</i>	53	53	53	40	40
Ascospores	40	-	27	-	-
Basidiospores ²	13	27	-	-	40
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	-	-	-	67
<i>Penicillium/Aspergillus</i> Group ¹	40	13	13	-	27
Hyphal Elements ³	27	27	13	-	27
<i>Alternaria</i>	-	-	-	13	-
<i>Curvularia</i>	-	-	-	27	-
<i>Epicoccum</i>	-	-	27	13	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	27	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	13	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	200	120	160	93	200
Particulate Level	low	low	low-moderate	moderate	low-moderate
Date Analyzed:	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24

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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	C 218	Hall at 201	Hall at Band Room	Band room	Hall A201
<i>Cladosporium</i>	53	40	40	40	27
Ascospores	-	27	13	-	-
Basidiospores ²	13	-	27	13	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	13	13	40
<i>Penicillium/Aspergillus</i> Group ¹	27	27	-	13	80
Hyphal Elements ³	13	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>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	13
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	107	120	93	93	187
Particulate Level	low	low	low	low	low
Date Analyzed:	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24

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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
	16	17	18	19	20
Spore Identification	Gym	Cafeteria	Hall C 101	Media Center	Hall at D 100
<i>Cladosporium</i>	53	27	80	67	93
Ascospores	-	13	40	40	13
Basidiospores ²	13	27	27	27	40
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	27	40	53	13
<i>Penicillium/Aspergillus</i> Group ¹	13	53	40	93	53
Hyphal Elements ³	67	-	13	13	27
<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	160	147	240	293	240
Particulate Level	low	low	low-moderate	low-moderate	low-moderate
Date Analyzed:	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24

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Table 1: Non-Viable Air Samples

Date Collected:	5/2/24	5/2/24	5/2/24	5/2/24	5/2/24
	21	22	23	24	25
Spore Identification	D 102	Hall C 104	Hall V 102	C 106	Auditorium
<i>Cladosporium</i>	53	40	147	427	27
Ascospores	40	40	13	40	-
Basidiospores ²	13	13	27	13	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	27	-	-	27
<i>Penicillium/Aspergillus</i> Group ¹	27	40	53	53	80
Hyphal Elements ³	-	-	40	27	13
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	13	-
<i>Epicoccum</i>	-	-	13	13	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	13
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	147	160	293	587	93
Particulate Level	low	low	low	low	low
Date Analyzed:	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24

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Table 1: Non-Viable Air Samples

Date Collected:	5/2/24	5/2/24
Spore Identification	26	27
	First Floor Offices across from Elevator	Outdoor Air
<i>Cladosporium</i>	27	6773
Ascospores	-	533
Basidiospores ²	27	160
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	107
<i>Penicillium/Aspergillus</i> Group ¹	53	213
Hyphal Elements ³	13	53
<i>Alternaria</i>	-	160
<i>Curvularia</i>	-	53
<i>Epicoccum</i>	-	53
<i>Cercospora</i>	-	107
<i>Arthrinium</i>	-	-
Clear Brown	-	-
Colorless	-	-
Trichocladium	-	-
Unidentified	-	-
<i>Ulocladium</i>	-	-
Torula	-	-
Pithomyces	-	-
Rust ⁵	-	53
<i>Drechslera/Bipolaris</i>	-	-
<i>Tetraploa</i>	-	-
<i>Chaetomium</i>	-	-
<i>Stachybotrys</i>	-	-
	-	-
Total Spores/m³	133	8267
Particulate Level	low	low-moderate
Date Analyzed:	5/6/24	5/6/24

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Project Type: IAQ
PO/Claim #:

Sample Number: 1
Sample Location: Advanced Placement A200
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: low
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	1	13	spores/m ³	14%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	14%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	29%
<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>	1	13	spores/m ³	14%
<i>Epicoccum</i>	1	13	spores/m ³	14%
<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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Project #: 24-2415
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Project Type: IAQ
 PO/Claim #:

Sample Number: 2
 Sample Location: Hall at 201
 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: low-moderate
 Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	17%
Ascospores	2	27	spores/m ³	17%
Basidiospores	3	40	spores/m ³	25%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	17%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	13	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>	2	27	spores/m ³	17%
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	12	160	spores/m³	

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



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Project #: 24-2415
 Project Location: Manteo High School

Project Type: IAQ
 PO/Claim #:

Sample Number: 3
 Sample Location: CR 206
 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: low-moderate
 Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	5	67	spores/m ³	42%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	33%
Hyphal Elements	2	27	spores/m ³	17%
<i>Alternaria</i>	1	13	spores/m ³	8%
<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	12	160	spores/m³	

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



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Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number: 4
Sample Location: D 202
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: low-moderate
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	5	67	spores/m ³	26%
Ascospores	2	27	spores/m ³	11%
Basidiospores	2	27	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	11%
<i>Penicillium/Aspergillus</i> Group	5	67	spores/m ³	26%
Hyphal Elements	1	13	spores/m ³	5%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	13	spores/m ³	5%
<i>Epicoccum</i>	1	13	spores/m ³	5%
<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	

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



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Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number: 5
Sample Location: Hall D 202
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: low-moderate
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	10	133	spores/m ³	53%
Ascospores	2	27	spores/m ³	11%
Basidiospores	3	40	spores/m ³	16%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	21%
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	

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 #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number: 6
Sample Location: D201
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: low
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m ³	27%
Ascospores	3	40	spores/m ³	20%
Basidiospores	1	13	spores/m ³	7%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	7%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	20%
Hyphal Elements	2	27	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>	1	13	spores/m ³	7%
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	15	200	spores/m³	

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



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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 #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number:	7	Volume (L):	75
Sample Location:	Hall at 207/208	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
Date Analyzed:	5/6/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	4	53	spores/m ³	44%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	22%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	11%
Hyphal Elements	2	27	spores/m ³	22%
<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	

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

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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 #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number:	8	Volume (L):	75
Sample Location:	C 208	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>	4	53	spores/m ³	33%
Ascospores	2	27	spores/m ³	17%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	8%
Hyphal Elements	1	13	spores/m ³	8%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	2	27	spores/m ³	17%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrinium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>	2	27	spores/m ³	17%
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	12	160	spores/m³	

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

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Non-Viable Spore Trap Analysis

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

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number: 9
Sample Location: Hall at 213
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 ³	43%
Ascospores		-	spores/m ³	-
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>	1	13	spores/m ³	14%
<i>Curvularia</i>	2	27	spores/m ³	29%
<i>Epicoccum</i>	1	13	spores/m ³	14%
<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.



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Non-Viable Spore Trap Analysis

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

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number:	10	Volume (L):	75
Sample Location:	Hall at 216	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>	3	40	spores/m ³	20%
Ascospores		-	spores/m ³	-
Basidiospores	3	40	spores/m ³	20%
Smuts, <i>Periconia</i> , Myxomycetes	5	67	spores/m ³	33%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	13%
Hyphal Elements	2	27	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	15	200	spores/m³	

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



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Non-Viable Spore Trap Analysis

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

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number:	11	Volume (L):	75
Sample Location:	C 218	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
Date Analyzed:	5/6/24	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	

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



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Non-Viable Spore Trap Analysis

Dare County Schools
Ian Adams
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Nags Head, NC

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number:	12	Volume (L):	75
Sample Location:	Hall at 201	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
Date Analyzed:	5/6/24	Notes:	

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

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

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Non-Viable Spore Trap Analysis

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

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number:	13	Volume (L):	75
Sample Location:	Hall at Band Room	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
Date Analyzed:	5/6/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	3	40	spores/m ³	43%
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		-	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	

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

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Non-Viable Spore Trap Analysis

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

Project #: 24-2415
 Project Location: Manteo High School

Project Type: IAQ
 PO/Claim #:

Sample Number: 15
 Sample Location: Hall A201
 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: low
 Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	14%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	7%
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m ³	21%
<i>Penicillium/Aspergillus</i> Group	6	80	spores/m ³	43%
Hyphal Elements	1	13	spores/m ³	7%
<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	1	13	spores/m ³	7%
<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	14	187	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 Ave.
Nags Head, NC

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number:	17	Volume (L):	75
Sample Location:	Cafeteria	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
Date Analyzed:	5/6/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	18%
Ascospores	1	13	spores/m ³	9%
Basidiospores	2	27	spores/m ³	18%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	18%
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	36%
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	11	147	spores/m³	

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

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

Non-Viable Spore Trap Analysis

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

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number: 18
Sample Location: Hall C 101
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: low-moderate
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	6	80	spores/m ³	33%
Ascospores	3	40	spores/m ³	17%
Basidiospores	2	27	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group	3	40	spores/m ³	17%
Hyphal Elements	1	13	spores/m ³	6%
<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	18	240	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 Ave.
 Nags Head, NC

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number: 20
Sample Location: Hall at D 100
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: low-moderate
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	7	93	spores/m ³	39%
Ascospores	1	13	spores/m ³	6%
Basidiospores	3	40	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	6%
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	22%
Hyphal Elements	2	27	spores/m ³	11%
<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	18	240	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 Ave.
 Nags Head, NC

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number: 23
Sample Location: Hall V 102
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: low
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	11	147	spores/m ³	50%
Ascospores	1	13	spores/m ³	5%
Basidiospores	2	27	spores/m ³	9%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	18%
Hyphal Elements	3	40	spores/m ³	14%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	1	13	spores/m ³	5%
<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	22	293	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 Ave.
 Nags Head, NC

Project #: 24-2415
 Project Location: Manteo High School

Project Type: IAQ
 PO/Claim #:

Sample Number: 24
 Sample Location: C 106
 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: low
 Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	32	427	spores/m ³	73%
Ascospores	3	40	spores/m ³	7%
Basidiospores	1	13	spores/m ³	2%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	9%
Hyphal Elements	2	27	spores/m ³	5%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	13	spores/m ³	2%
<i>Epicoccum</i>	1	13	spores/m ³	2%
<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	44	587	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 Ave.
Nags Head, NC

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number:	26	Volume (L):	75
Sample Location:	First Floor Offices across from Elevator	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
Date Analyzed:	5/6/24	Notes:	

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	20%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	20%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	10%
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	40%
Hyphal Elements	1	13	spores/m ³	10%
<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	10	133	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 Ave.
 Nags Head, NC

Project #: 24-2415
Project Location: Manteo High School

Project Type: IAQ
PO/Claim #:

Sample Number: 27
Sample Location: Outdoor Air
Date Collected: 5/2/24
Test Requested: Non-viable spore trap analysis
Date Analyzed: 5/6/24

Volume (L): 75
Percentage of Slide Read: 25.0%
Detection Limit: 53.33
Particulate Level: low-moderate
Notes:

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	127	6773	spores/m ³	82%
Ascospores	10	533	spores/m ³	6%
Basidiospores	3	160	spores/m ³	2%
Smuts, <i>Periconia</i> , Myxomycetes	2	107	spores/m ³	1%
<i>Penicillium/Aspergillus</i> Group	4	213	spores/m ³	3%
Hyphal Elements	1	53	spores/m ³	1%
<i>Alternaria</i>	3	160	spores/m ³	2%
<i>Curvularia</i>	1	53	spores/m ³	1%
<i>Epicoccum</i>	1	53	spores/m ³	1%
<i>Cercospora</i>	2	107	spores/m ³	1%
<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	1	53	spores/m ³	1%
<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	155	8267	spores/m³	

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



Certificate of Laboratory Analysis

Project #: **24-2415**

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.

Chain of Custody available on request

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