



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 #: 23-2217
Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: -

Table 1: Non-Viable Air Samples

Date Collected:	11/10/23	11/10/23	11/10/23	11/10/23	11/10/23
	1	2	3	4	5
Spore Identification	Hall at Admin	Cafeteria	Hall at CR 302	CR 307	Hall at CR 318
<i>Cladosporium</i>	40	27	53	27	27
Ascospores	27	-	13	13	-
Basidiospores ²	-	13	13	-	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	40	-	40	-	13
<i>Penicillium/Aspergillus</i> Group ¹	13	-	-	-	27
Hyphal Elements ³	27	13	27	-	27
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	-	13
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	13	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	160	53	147	40	107
Particulate Level	low-moderate	low	low-moderate	low	low-moderate
Date Analyzed:	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23

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

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Table 1: Non-Viable Air Samples

Date Collected:	11/10/23	11/10/23	11/10/23	11/10/23	11/10/23
	6	7	8	9	10
Spore Identification	CR 320	Hall @ Media Center	Media Center	Hall at 153	Gym
<i>Cladosporium</i>	13	13	67	53	27
Ascospores	13	-	-	-	-
Basidiospores ²	-	27	13	27	13
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	27	-	13
<i>Penicillium/Aspergillus</i> Group ¹	-	67	27	107	-
Hyphal Elements ³	-	-	27	27	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	27	120	160	213	67
Particulate Level	low	low-moderate	low	low	low-moderate
Date Analyzed:	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23

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Project #: 23-2217
Project Location: Cape Hatteras Secondary

Project Type: IEQ

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Table 1: Non-Viable Air Samples

Date Collected:	11/10/23	11/10/23	11/10/23	11/10/23	11/10/23
	11	12	13	14	15
Spore Identification	Aux. Gym	Hall @ 151	CR 149	Music Room	Auditorium
<i>Cladosporium</i>	27	-	13	40	80
Ascospores	13	27	-	-	13
Basidiospores ²	13	13	27	13	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	27	-	13
<i>Penicillium/Aspergillus</i> Group ¹	-	13	-	53	27
Hyphal Elements ³	13	13	13	-	27
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	27	-	13	-
<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	67	107	80	120	187
Particulate Level	low	low-moderate	low	low	low
Date Analyzed:	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23

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Project Type: IEQ

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Table 1: Non-Viable Air Samples

Date Collected:	11/10/23	11/10/23	11/10/23	11/10/23	11/10/23
	16	17	18	19	20
Spore Identification	Hall @ CR 205	CR 209	Hall @ 352	Hall @ 359	CR 356
<i>Cladosporium</i>	27	27	67	40	40
Ascospores	-	-	13	13	27
Basidiospores ²	53	13	13	13	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	-	13	-
<i>Penicillium/Aspergillus</i> Group ¹	13	-	13	67	27
Hyphal Elements ³	-	13	-	-	-
<i>Alternaria</i>	-	-	-	-	-
<i>Curvularia</i>	-	-	-	-	-
<i>Epicoccum</i>	-	-	-	13	-
<i>Cercospora</i>	-	13	-	-	-
<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	93	80	107	160	93
Particulate Level	low	low	low	low	low
Date Analyzed:	11/16/23	11/16/23	11/16/23	11/16/23	11/16/23

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PO/Claim #: -

Table 1: Non-Viable Air Samples

Date Collected:	11/10/23	11/10/23	11/10/23	11/10/23
	21	22	23	24
Spore Identification	CR 361	Auditorium Dressing Area	Hall @ Weight Room	Outdoor Air
<i>Cladosporium</i>	27	27	-	1280
Ascospores	-	-	40	4907
Basidiospores ²	27	13	13	160
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	13	13	160
<i>Penicillium/Aspergillus</i> Group ¹	40	53	13	320
Hyphal Elements ³	13	13	-	53
<i>Alternaria</i>	13	-	-	-
<i>Curvularia</i>	-	-	-	107
<i>Epicoccum</i>	-	-	-	-
<i>Cercospora</i>	-	-	-	-
<i>Arthrrium</i>	-	-	-	-
Clear Brown	-	-	-	-
Colorless	-	-	-	-
Trichocladium	-	-	-	-
Unidentified	-	-	-	-
<i>Ulocladium</i>	-	-	-	-
Torula	-	-	-	-
Pithomyces	-	-	-	53
Rust ⁵	-	-	-	107
<i>Drechslera/Bipolaris</i>	-	-	-	107
<i>Tetraploa</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-
	-	-	-	-
Total Spores/m³	133	120	80	7253
Particulate Level	low	low	low-moderate	low-moderate
Date Analyzed:	11/16/23	11/16/23	11/16/23	11/16/23

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Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: -

Sample Number: 1

Sample Location: Hall at Admin

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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	25%
Ascospores	2	27	spores/m ³	17%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m ³	25%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	8%
Hyphal Elements	2	27	spores/m ³	17%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoecum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrini</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	8%
<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	

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Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 2

Sample Location: Cafeteria

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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		-	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>Epicoecum</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	4	53	spores/m³	

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Project #: 23-2217**Project Location:** Cape Hatteras Secondary**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 3**Sample Location:** Hall at CR 302**Date Collected:** 11/10/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/16/23**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	36%
Ascospores	1	13	spores/m ³	9%
Basidiospores	1	13	spores/m ³	9%
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m ³	27%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	2	27	spores/m ³	18%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoecum</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	11	147	spores/m³	

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Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: -

Sample Number: 4
Sample Location: CR 307
Date Collected: 11/10/23
Test Requested: Non-viable spore trap analysis
Date Analyzed: 11/16/23

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	67%
Ascospores	1	13	spores/m ³	33%
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	3	40	spores/m³	

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



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Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 5

Sample Location: Hall at CR 318

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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>	2	27	spores/m ³	25%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	13%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	25%
Hyphal Elements	2	27	spores/m ³	25%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	1	13	spores/m ³	13%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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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Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 6

Sample Location: CR 320

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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	50%
Ascospores	1	13	spores/m ³	50%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium</i> / <i>Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoecum</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</i> / <i>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	2	27	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 #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 7

Sample Location: Hall @ Media Center

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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>	1	13	spores/m ³	11%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	22%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	11%
<i>Penicillium/Aspergillus</i> Group	5	67	spores/m ³	56%
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	9	120	spores/m³	

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

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Project #: 23-2217**Project Location:** Cape Hatteras Secondary**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 8**Sample Location:** Media Center**Date Collected:** 11/10/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/16/23**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>	5	67	spores/m ³	42%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	8%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	17%
Hyphal Elements	2	27	spores/m ³	17%
<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	12	160	spores/m³	

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

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Project #: 23-2217**Project Location:** Cape Hatteras Secondary**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 9**Sample Location:** Hall at 153**Date Collected:** 11/10/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/16/23**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>	4	53	spores/m ³	25%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	13%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	8	107	spores/m ³	50%
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>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	16	213	spores/m³	

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



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Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 10

Sample Location: Gym

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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>	2	27	spores/m ³	40%
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	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>Arthrrium</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 #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 11

Sample Location: Aux. Gym

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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	40%
Ascospores	1	13	spores/m ³	20%
Basidiospores	1	13	spores/m ³	20%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	1	13	spores/m ³	20%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoecum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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 #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 12

Sample Location: Hall @ 151

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: low-moderate

Notes:

Spore Identification	1	Results	Units	Percentage
<i>Cladosporium</i>		-	spores/m ³	-
Ascospores	2	27	spores/m ³	25%
Basidiospores	1	13	spores/m ³	13%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	13%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	13%
Hyphal Elements	1	13	spores/m ³	13%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	2	27	spores/m ³	25%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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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Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 13

Sample Location: CR 149

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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	17%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	33%
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	33%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	1	13	spores/m ³	17%
<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>Arthrrium</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	6	80	spores/m³	

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

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—

Project #: 23-2217**Project Location:** Cape Hatteras Secondary**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 14**Sample Location:** Music Room**Date Collected:** 11/10/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/16/23**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	33%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	44%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	13	spores/m ³	11%
<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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Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 15

Sample Location: Auditorium

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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>	6	80	spores/m ³	43%
Ascospores	1	13	spores/m ³	7%
Basidiospores	2	27	spores/m ³	14%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	7%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	14%
Hyphal Elements	2	27	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>Arthrrium</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	14	187	spores/m³	

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

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Project #: 23-2217**Project Location:** Cape Hatteras Secondary**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 16**Sample Location:** Hall @ CR 205**Date Collected:** 11/10/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/16/23**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	29%
Ascospores		-	spores/m ³	-
Basidiospores	4	53	spores/m ³	57%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<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>Arthrrium</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.

**Certificate of Laboratory Analysis**

Non-Viable Spore Trap Analysis

Dare County Schools

Ian Adams

3020 S Wrightsville Ave

Nags Head, NC

-

Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: -

Sample Number: 17

Sample Location: CR 209

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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	33%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	1	13	spores/m ³	17%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>	1	13	spores/m ³	17%
<i>Arthrrium</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	6	80	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 #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: -

Sample Number: 18

Sample Location: Hall @ 352

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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>	5	67	spores/m ³	63%
Ascospores	1	13	spores/m ³	13%
Basidiospores	1	13	spores/m ³	13%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	13%
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>Arthrrium</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

3020 S Wrightsville Ave

Nags Head, NC

-

Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: -

Sample Number: 19

Sample Location: Hall @ 359

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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	25%
Ascospores	1	13	spores/m ³	8%
Basidiospores	1	13	spores/m ³	8%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	8%
<i>Penicillium/Aspergillus</i> Group	5	67	spores/m ³	42%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	1	13	spores/m ³	8%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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.

**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 #: 23-2217**Project Location:** Cape Hatteras Secondary**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 20**Sample Location:** CR 356**Date Collected:** 11/10/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/16/23**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	43%
Ascospores	2	27	spores/m ³	29%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<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>Arthrrium</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 #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: -

Sample Number: 21

Sample Location: CR 361

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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	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	3	40	spores/m ³	30%
Hyphal Elements	1	13	spores/m ³	10%
<i>Alternaria</i>	1	13	spores/m ³	10%
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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.



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Non-Viable Spore Trap Analysis

Dare County Schools

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—

Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 22

Sample Location: Auditorium Dressing Area

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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	22%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	11%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	11%
<i>Penicillium/Aspergillus</i> Group	4	53	spores/m ³	44%
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>Arthrrium</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

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Nags Head, NC

—

Project #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: —

Sample Number: 23

Sample Location: Hall @ Weight Room

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: low-moderate

Notes:

Spore Identification	6	Results	Units	Percentage
<i>Cladosporium</i>		-	spores/m ³	-
Ascospores	3	40	spores/m ³	50%
Basidiospores	1	13	spores/m ³	17%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	17%
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>Arthrrium</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	6	80	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 #: 23-2217

Project Location: Cape Hatteras Secondary

Project Type: IEQ

PO/Claim #: -

Sample Number: 24

Sample Location: Outdoor Air

Date Collected: 11/10/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/16/23

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>	24	1280	spores/m ³	18%
Ascospores	92	4907	spores/m ³	68%
Basidiospores	3	160	spores/m ³	2%
Smuts, <i>Periconia</i> , Myxomycetes	3	160	spores/m ³	2%
<i>Penicillium/Aspergillus</i> Group	6	320	spores/m ³	4%
Hyphal Elements	1	53	spores/m ³	1%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	2	107	spores/m ³	1%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</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	53	spores/m ³	1%
Rust	2	107	spores/m ³	1%
<i>Drechslera/Bipolaris</i>	2	107	spores/m ³	1%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	136	7253	spores/m³	

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



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Certificate of Laboratory Analysis

Project #: **23-2217**

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

11/16/2023