



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 #: 23-2214
Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: -

Table 1: Non-Viable Air Samples

Date Collected:	11/9/23	11/9/23	11/9/23	11/9/23	11/9/23
	1	2	3	4	5
Spore Identification	Main Hall at Entrance	Hall B110/109	Hall B103	CR B105	CR B111
<i>Cladosporium</i>	27	67	133	80	40
Ascospores	-	13	27	27	13
Basidiospores ²	13	27	67	40	27
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	40	-	40	-	13
<i>Penicillium/Aspergillus</i> Group ¹	13	27	27	-	13
Hyphal Elements ³	160	80	213	13	-
<i>Alternaria</i>	-	53	-	-	27
<i>Curvularia</i>	160	107	267	-	-
<i>Epicoccum</i>	40	-	13	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	13	-	-	-	-
Unidentified	-	-	13	-	-
<i>Ulocladium</i>	27	-	13	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	27	-	13	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	13	67	53	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	533	440	880	160	133
Particulate Level	moderate-heavy	moderate-heavy	moderate-heavy	low-moderate	low
Date Analyzed:	11/14/23	11/14/23	11/14/23	11/14/23	11/14/23

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

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Table 1: Non-Viable Air Samples

Date Collected:	11/9/23	11/9/23	11/9/23	11/9/23	11/9/23
	6	7	8	9	10
Spore Identification	Hall B116	Hall B119	B 123 Cafeteria	B 116	Hall B217
<i>Cladosporium</i>	80	80	40	-	13
Ascospores	27	-	-	-	-
Basidiospores ²	40	67	-	-	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	53	-	-	27
<i>Penicillium/Aspergillus</i> Group ¹	13	13	-	-	13
Hyphal Elements ³	133	200	27	-	-
<i>Alternaria</i>	13	13	-	-	13
<i>Curvularia</i>	40	67	-	-	27
<i>Epicoccum</i>	40	13	13	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrrium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	13	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	13	-	-	-	-
<i>Torula</i>	-	-	-	-	-
<i>Pithomyces</i>	-	-	-	-	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	27	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	440	507	93	0	93
Particulate Level	low-moderate	moderate	low-moderate	low	low-moderate
Date Analyzed:	11/14/23	11/14/23	11/14/23	11/14/23	11/14/23

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Project Type: IEQ

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Table 1: Non-Viable Air Samples

Date Collected:	11/9/23	11/9/23	11/9/23	11/9/23	11/9/23
	11	12	13	14	15
Spore Identification	Hall B209	Hall @ B206	CR B207	Hall 219	CR B220
<i>Cladosporium</i>	27	27	27	40	13
Ascospores	-	-	-	13	-
Basidiospores ²	27	-	13	-	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	-	13	13	27	27
<i>Penicillium/Aspergillus</i> Group ¹	-	-	13	27	-
Hyphal Elements ³	13	-	-	120	40
<i>Alternaria</i>	-	-	-	40	-
<i>Curvularia</i>	-	-	-	40	-
<i>Epicoccum</i>	-	-	-	-	-
<i>Cercospora</i>	-	-	-	-	-
<i>Arthrinium</i>	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
<i>Trichocladium</i>	-	-	-	-	-
Unidentified	-	-	-	-	-
<i>Ulocladium</i>	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	13	-
Rust ⁵	-	-	-	-	-
<i>Drechslera/Bipolaris</i>	-	-	13	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	67	40	80	320	80
Particulate Level	low-moderate	low	low-moderate	low-moderate	low
Date Analyzed:	11/14/23	11/14/23	11/14/23	11/14/23	11/14/23

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Table 1: Non-Viable Air Samples

Date Collected:	11/9/23	11/9/23	11/9/23	11/9/23	11/9/23
	16	17	18	19	20
Spore Identification	Hall @ D 115	D 128	D 131	Media	Gym
<i>Cladosporium</i>	27	-	27	27	67
Ascospores	-	27	27	-	13
Basidiospores ²	27	-	-	-	-
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	13	13	13	13	13
<i>Penicillium/Aspergillus</i> Group ¹	-	-	-	27	-
Hyphal Elements ³	67	-	-	13	27
<i>Alternaria</i>	13	-	-	-	-
<i>Curvularia</i>	40	-	13	-	-
<i>Epicoccum</i>	-	-	-	-	-
<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>	13	-	-	-	-
<i>Tetraploa</i>	-	-	-	-	-
<i>Chaetomium</i>	-	-	-	-	-
<i>Stachybotrys</i>	-	-	-	-	-
	-	-	-	-	-
Total Spores/m³	200	40	93	80	120
Particulate Level	low	low	low	low	low-moderate
Date Analyzed:	11/14/23	11/14/23	11/14/23	11/14/23	11/14/23

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PO/Claim #: -

Table 1: Non-Viable Air Samples

Date Collected:	11/9/23
Spore Identification	21
	Outdoor Air
<i>Cladosporium</i>	3680
Ascospores	853
Basidiospores ²	160
Smuts, <i>Periconia</i> , <i>Myxomycetes</i> ⁴	213
<i>Penicillium/Aspergillus</i> Group ¹	320
Hyphal Elements ³	160
<i>Alternaria</i>	-
<i>Curvularia</i>	53
<i>Epicoccum</i>	-
<i>Cercospora</i>	-
<i>Arthrrium</i>	-
Clear Brown	-
Colorless	-
Trichocladium	-
Unidentified	-
<i>Ulocladium</i>	-
Torula	-
Pithomyces	-
Rust ⁵	-
<i>Drechslera/Bipolaris</i>	53
<i>Tetraploa</i>	-
<i>Chaetomium</i>	-
<i>Stachybotrys</i>	-
	-
Total Spores/m ³	5493
Particulate Level	moderate
Date Analyzed:	11/14/23

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Project #: 23-2214**Project Location:** Manteo Elementary School**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 1**Sample Location:** Main Hall at Entrance**Date Collected:** 11/9/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/14/23**Volume (L):** 75**Percentage of Slide Read:** 100.0%**Detection Limit:** 13.33**Particulate Level:** moderate-heavy**Notes:** —

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	2	27	spores/m ³	5%
Ascospores		-	spores/m ³	-
Basidiospores	1	13	spores/m ³	3%
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m ³	8%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	3%
Hyphal Elements	12	160	spores/m ³	30%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	12	160	spores/m ³	30%
<i>Epicoecum</i>	3	40	spores/m ³	8%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrimum</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>	1	13	spores/m ³	3%
Unidentified		-	spores/m ³	-
<i>Ulocladium</i>	2	27	spores/m ³	5%
Torula		-	spores/m ³	-
<i>Pithomyces</i>	2	27	spores/m ³	5%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	1	13	spores/m ³	3%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	40	533	spores/m³	

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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 2

Sample Location: Hall B110/109

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: moderate-heavy

Notes: —

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	5	67	spores/m ³	15%
Ascospores	1	13	spores/m ³	3%
Basidiospores	2	27	spores/m ³	6%
Smuts, <i>Periconia</i> , Myxomycetes		-	spores/m ³	-
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	6%
Hyphal Elements	6	80	spores/m ³	18%
<i>Alternaria</i>	4	53	spores/m ³	12%
<i>Curvularia</i>	8	107	spores/m ³	24%
<i>Epicoecum</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>	5	67	spores/m ³	15%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	33	440	spores/m³	

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



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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 3

Sample Location: Hall B103

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

Volume (L): 75

Percentage of Slide Read: 100.0%

Detection Limit: 13.33

Particulate Level: moderate-heavy

Notes: —

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	10	133	spores/m ³	15%
Ascospores	2	27	spores/m ³	3%
Basidiospores	5	67	spores/m ³	8%
Smuts, <i>Periconia</i> , Myxomycetes	3	40	spores/m ³	5%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	3%
Hyphal Elements	16	213	spores/m ³	24%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	20	267	spores/m ³	30%
<i>Epicoccum</i>	1	13	spores/m ³	2%
<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	1	13	spores/m ³	2%
<i>Ulocladium</i>	1	13	spores/m ³	2%
Torula		-	spores/m ³	-
<i>Pithomyces</i>	1	13	spores/m ³	2%
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	4	53	spores/m ³	6%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	66	880	spores/m³	

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



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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 4

Sample Location: CR B105

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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>	6	80	spores/m ³	50%
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		-	spores/m ³	-
Hyphal Elements	1	13	spores/m ³	8%
<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	12	160	spores/m³	

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

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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: -

Sample Number: 5

Sample Location: CR B111

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	30%
Ascospores	1	13	spores/m ³	10%
Basidiospores	2	27	spores/m ³	20%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	10%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	10%
Hyphal Elements		-	spores/m ³	-
<i>Alternaria</i>	2	27	spores/m ³	20%
<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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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 6

Sample Location: Hall B116

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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>	6	80	spores/m ³	18%
Ascospores	2	27	spores/m ³	6%
Basidiospores	3	40	spores/m ³	9%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	3%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	3%
Hyphal Elements	10	133	spores/m ³	30%
<i>Alternaria</i>	1	13	spores/m ³	3%
<i>Curvularia</i>	3	40	spores/m ³	9%
<i>Epicoecum</i>	3	40	spores/m ³	9%
<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>	1	13	spores/m ³	3%
Torula		-	spores/m ³	-
<i>Pithomyces</i>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	2	27	spores/m ³	6%
<i>Tetraploa</i>		-	spores/m ³	-
<i>Chaetomium</i>		-	spores/m ³	-
<i>Stachybotrys</i>		-	spores/m ³	-
		-	spores/m ³	-
Total Spores	33	440	spores/m³	

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

**LRC Indoor Testing and Research**

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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 #: 23-2214**Project Location:** Manteo Elementary School**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 7**Sample Location:** Hall B119**Date Collected:** 11/9/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/14/23**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>	6	80	spores/m ³	16%
Ascospores		-	spores/m ³	-
Basidiospores	5	67	spores/m ³	13%
Smuts, <i>Periconia</i> , Myxomycetes	4	53	spores/m ³	11%
<i>Penicillium/Aspergillus</i> Group	1	13	spores/m ³	3%
Hyphal Elements	15	200	spores/m ³	39%
<i>Alternaria</i>	1	13	spores/m ³	3%
<i>Curvularia</i>	5	67	spores/m ³	13%
<i>Epicoccum</i>	1	13	spores/m ³	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	38	507	spores/m³	

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



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Nags Head, NC

—

Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 8

Sample Location: B 123 Cafeteria

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	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	2	27	spores/m ³	29%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>		-	spores/m ³	-
<i>Epicoccum</i>	1	13	spores/m ³	14%
<i>Cercospora</i>		-	spores/m ³	-
<i>Arthrrium</i>		-	spores/m ³	-
Clear Brown		-	spores/m ³	-
Colorless		-	spores/m ³	-
<i>Trichocladium</i>	1	13	spores/m ³	14%
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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—

Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 9

Sample Location: B 116

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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>		-	spores/m ³	-
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>		-	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	0	0	spores/m³	

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



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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 10

Sample Location: Hall B217

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	14%
Ascospores		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
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>	1	13	spores/m ³	14%
<i>Curvularia</i>	2	27	spores/m ³	29%
<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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—

Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 11

Sample Location: Hall B209

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	2	27	spores/m ³	40%
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>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	

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



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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 12

Sample Location: Hall @ B206

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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		-	spores/m ³	-
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	33%
<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>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	3	40	spores/m³	

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



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Non-Viable Spore Trap Analysis

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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 13

Sample Location: CR B207

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	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	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>	1	13	spores/m ³	17%
<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 #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 14

Sample Location: Hall 219

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	13%
Ascospores	1	13	spores/m ³	4%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	8%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	8%
Hyphal Elements	9	120	spores/m ³	38%
<i>Alternaria</i>	3	40	spores/m ³	13%
<i>Curvularia</i>	3	40	spores/m ³	13%
<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	4%
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	24	320	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 #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: -

Sample Number: 15

Sample Location: CR B220

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	2	27	spores/m ³	33%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	3	40	spores/m ³	50%
<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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3020 S Wrightsville Ave

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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: -

Sample Number: 16

Sample Location: Hall @ D 115

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	13%
Ascospores		-	spores/m ³	-
Basidiospores	2	27	spores/m ³	13%
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	7%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
Hyphal Elements	5	67	spores/m ³	33%
<i>Alternaria</i>	1	13	spores/m ³	7%
<i>Curvularia</i>	3	40	spores/m ³	20%
<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>	1	13	spores/m ³	7%
<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.



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 #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 17

Sample Location: D 128

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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>		-	spores/m ³	-
Ascospores	2	27	spores/m ³	67%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	33%
<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>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	3	40	spores/m³	

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



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Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 18

Sample Location: D 131

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	2	27	spores/m ³	29%
Basidiospores		-	spores/m ³	-
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>	1	13	spores/m ³	14%
<i>Epicoccum</i>		-	spores/m ³	-
<i>Cercospora</i>	1	13	spores/m ³	14%
<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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Certificate of Laboratory Analysis**Non-Viable Spore Trap Analysis****Dare County Schools****Ian Adams****3020 S Wrightsville Ave****Nags Head, NC**

—

Project #: 23-2214**Project Location:** Manteo Elementary School**Project Type:** IEQ**PO/Claim #:** —**Sample Number:** 19**Sample Location:** Media**Date Collected:** 11/9/23**Test Requested:** Non-viable spore trap analysis**Date Analyzed:** 11/14/23**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		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	17%
<i>Penicillium/Aspergillus</i> Group	2	27	spores/m ³	33%
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 #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 20

Sample Location: Gym

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

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	56%
Ascospores	1	13	spores/m ³	11%
Basidiospores		-	spores/m ³	-
Smuts, <i>Periconia</i> , Myxomycetes	1	13	spores/m ³	11%
<i>Penicillium/Aspergillus</i> Group		-	spores/m ³	-
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>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.



Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

Dare County Schools

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Nags Head, NC

—

Project #: 23-2214

Project Location: Manteo Elementary School

Project Type: IEQ

PO/Claim #: —

Sample Number: 21

Sample Location: Outdoor Air

Date Collected: 11/9/23

Test Requested: Non-viable spore trap analysis

Date Analyzed: 11/14/23

Volume (L): 75

Percentage of Slide Read: 25.0%

Detection Limit: 53.33

Particulate Level: moderate

Notes: —

Spore Identification	Count	Results	Units	Percentage
<i>Cladosporium</i>	69	3680	spores/m ³	67%
Ascospores	16	853	spores/m ³	16%
Basidiospores	3	160	spores/m ³	3%
Smuts, <i>Periconia</i> , Myxomycetes	4	213	spores/m ³	4%
<i>Penicillium/Aspergillus</i> Group	6	320	spores/m ³	6%
Hyphal Elements	3	160	spores/m ³	3%
<i>Alternaria</i>		-	spores/m ³	-
<i>Curvularia</i>	1	53	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>		-	spores/m ³	-
Rust		-	spores/m ³	-
<i>Drechslera/Bipolaris</i>	1	53	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	103	5493	spores/m³	

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



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Project #: **23-2214**

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

11/14/2023