LRC Indoor Testing and Research
200 Commonwealth Ct, Suite 101
Cary, NC 27511
(919) 342-4936

Certificate of Laboratory Analysis

Non-Viable Spore Trap Analysis

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

Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	4/19/25	4/19/25	4/19/25	4/19/25	4/19/25
Spore Identification	1	2	3	4	5
	Gym	Cafeteria	Reception	116	130
Cladosporium	53	13	40	40	27
Ascospores	-	-	13	27	13
Basidiospores[2]	-	-	53	-	-
Smuts, *Periconia* , Myxomycetes[4]	53	-	-	-	27
Penicillium/Aspergillus Group[1]	27	-	80	67	13
Hyphal Elements[3]	-	-	40	-	-
Alternaria	-	13	13	-	-
Curvularia	-	-	13	13	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	13	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	-	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**133**	**27**	**267**	**147**	**80**
Particulate Level	**low**	**low**	**moderate**	**low-moderate**	**low**
Date Analyzed:	**4/27/25**	**4/27/25**	**4/27/25**	**4/27/25**	**4/27/25**

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

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	4/19/25	4/19/25	4/19/25	4/19/25	4/19/25
Spore Identification	6	7	8	9	10
	Media	147	146	153	Hall @ 152
Cladosporium	13	40	-	27	-
Ascospores	-	40	13	27	40
Basidiospores[2]	-	-	-	-	27
Smuts, *Periconia* , Myxomycetes[4]	-	27	13	-	-
Penicillium/Aspergillus Group[1]	13	13	13	27	-
Hyphal Elements[3]	13	13	-	13	13
Alternaria	-	-	-	-	40
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	-	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	-	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**40**	**133**	**40**	**93**	**120**
Particulate Level	**low**	**low**	**low**	**low-moderate**	**low**
Date Analyzed:	**4/27/25**	**4/27/25**	**4/27/25**	**4/27/25**	**4/27/25**

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	4/19/25	4/19/25	4/19/25	4/19/25	4/19/25
Spore Identification	**11**	**12**	**13**	**14**	**15**
	150	**203**	**209**	**210**	**213**
Cladosporium	-	27	-	-	27
Ascospores	-	13	27	13	-
Basidiospores[2]	-	13	-	-	13
Smuts, *Periconia* , Myxomycetes[4]	13	40	-	27	-
Penicillium/Aspergillus Group[1]	-	27	27	13	40
Hyphal Elements[3]	-	27	-	13	-
Alternaria	-	-	-	-	-
Curvularia	13	40	-	-	-
Epicoccum	-	-	-	-	-
Cercospora	-	-	-	-	-
Arthrinium	-	-	-	-	-
Clear Brown	-	-	-	-	-
Colorless	-	-	-	-	-
Trichocladium	-	-	-	-	-
Unidentified	-	-	-	-	-
Ulocladium	-	-	-	-	-
Torula	-	-	-	-	-
Pithomyces	-	-	-	13	-
Rust[5]	-	-	-	-	-
Drechslera/Bipolaris	-	-	-	-	-
Tetraploa	-	-	-	-	-
Chaetomium	-	-	-	-	-
Stachybotrys	-	-	-	-	-
	-	-	-	-	-
Total Spores/m^3	**27**	**187**	**53**	**80**	**80**
Particulate Level	**low**	**moderate**	**low**	**low**	**low**
Date Analyzed:	**4/27/25**	**4/27/25**	**4/27/25**	**4/27/25**	**4/27/25**

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Table 1: Non-Viable Air Samples

Date Collected:	4/19/25	4/19/25	4/19/25
Spore Identification	16	17	18
	216	Hall @ 212	Outdoor Air
Cladosporium	40	27	120
Ascospores	-	80	413
Basidiospores[2]	-	13	80
Smuts, *Periconia* , Myxomycetes[4]	-	-	40
Penicillium/Aspergillus Group[1]	13	13	40
Hyphal Elements[3]	53	27	13
Alternaria	-	-	13
Curvularia	-	-	-
Epicoccum	-	-	-
Cercospora	-	-	-
Arthrinium	-	-	-
Clear Brown	-	-	-
Colorless	-	-	-
Trichocladium	-	-	-
Unidentified	-	-	-
Ulocladium	-	-	-
Torula	-	-	-
Pithomyces	-	-	-
Rust[5]	-	-	-
Drechslera/Bipolaris	-	-	-
Tetraploa	-	-	-
Chaetomium	-	-	-
Stachybotrys	-	-	-
	-	-	-
Total Spores/m^3	**107**	**160**	**720**
Particulate Level	**low-moderate**	**low**	**low-moderate**
Date Analyzed:	**4/27/25**	**4/27/25**	**4/27/25**

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 1
Sample Location: Gym
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	4	53	spores/m^3	40%
Ascospores		-	spores/m^3	-
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	4	53	spores/m^3	40%
Penicillium/Aspergillus Group	2	27	spores/m^3	20%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**10**	**133**	**spores/m^3**	

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Project Type: IAQ
PO/Claim #: _

Sample Number: 2
Sample Location: Cafeteria
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	1	13	spores/m^3	50%
Ascospores		-	spores/m^3	-
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria	1	13	spores/m^3	50%
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**2**	**27**	**spores/m^3**	

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Project #: **25-1418**
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Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 3
Sample Location: Reception
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: moderate
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	3	40	spores/m^3	15%
Ascospores	1	13	spores/m^3	5%
Basidiospores	4	53	spores/m^3	20%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	6	80	spores/m^3	30%
Hyphal Elements	3	40	spores/m^3	15%
Alternaria	1	13	spores/m^3	5%
Curvularia	1	13	spores/m^3	5%
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified	1	13	spores/m^3	5%
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**20**	**267**	**spores/m^3**	

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Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 4
Sample Location: 116
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low-moderate
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	3	40	spores/m^3	27%
Ascospores	2	27	spores/m^3	18%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	5	67	spores/m^3	45%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia	1	13	spores/m^3	9%
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**11**	**147**	**spores/m^3**	

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Project Type: IAQ
PO/Claim #: _

Sample Number: 5
Sample Location: 130
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	2	27	spores/m^3	33%
Ascospores	1	13	spores/m^3	17%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	2	27	spores/m^3	33%
Penicillium/Aspergillus Group	1	13	spores/m^3	17%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**6**	**80**	**spores/m^3**	

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
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Project Type: IAQ
PO/Claim #: _

Sample Number: 6
Sample Location: Media
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	1	13	spores/m^3	33%
Ascospores		-	spores/m^3	-
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	1	13	spores/m^3	33%
Hyphal Elements	1	13	spores/m^3	33%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**3**	**40**	**spores/m^3**	

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Project #: **25-1418**
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Project Type: IAQ
PO/Claim #: _

Sample Number: 7
Sample Location: 147
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	3	40	spores/m^3	30%
Ascospores	3	40	spores/m^3	30%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	2	27	spores/m^3	20%
Penicillium/Aspergillus Group	1	13	spores/m^3	10%
Hyphal Elements	1	13	spores/m^3	10%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**10**	**133**	**spores/m^3**	

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 8
Sample Location: 146
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	1	13	spores/m^3	33%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	1	13	spores/m^3	33%
Penicillium/Aspergillus Group	1	13	spores/m^3	33%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**3**	**40**	**spores/m^3**	

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 Avenue
Nags Head, NC
_

Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 9
Sample Location: 153
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low-moderate
Notes: _

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

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Non-Viable Spore Trap Analysis

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 10
Sample Location: Hall @ 152
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	3	40	spores/m^3	33%
Basidiospores	2	27	spores/m^3	22%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements	1	13	spores/m^3	11%
Alternaria	3	40	spores/m^3	33%
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**9**	**120**	**spores/m^3**	

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 11
Sample Location: 150
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores		-	spores/m^3	-
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	1	13	spores/m^3	50%
Penicillium/Aspergillus Group		-	spores/m^3	-
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia	1	13	spores/m^3	50%
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**2**	**27**	**spores/m^3**	

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 12
Sample Location: 203
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: moderate
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	2	27	spores/m^3	14%
Ascospores	1	13	spores/m^3	7%
Basidiospores	1	13	spores/m^3	7%
Smuts, *Periconia* , Myxomycetes	3	40	spores/m^3	21%
Penicillium/Aspergillus Group	2	27	spores/m^3	14%
Hyphal Elements	2	27	spores/m^3	14%
Alternaria		-	spores/m^3	-
Curvularia	3	40	spores/m^3	21%
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**14**	**187**	**spores/m^3**	

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 13
Sample Location: 209
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	2	27	spores/m^3	50%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	2	27	spores/m^3	50%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**4**	**53**	**spores/m^3**	

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 14
Sample Location: 210
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium		-	spores/m^3	-
Ascospores	1	13	spores/m^3	17%
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes	2	27	spores/m^3	33%
Penicillium/Aspergillus Group	1	13	spores/m^3	17%
Hyphal Elements	1	13	spores/m^3	17%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces	1	13	spores/m^3	17%
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**6**	**80**	**spores/m^3**	

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 15
Sample Location: 213
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	2	27	spores/m^3	33%
Ascospores		-	spores/m^3	-
Basidiospores	1	13	spores/m^3	17%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	3	40	spores/m^3	50%
Hyphal Elements		-	spores/m^3	-
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**6**	**80**	**spores/m^3**	

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 16
Sample Location: 216
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low-moderate
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	3	40	spores/m^3	38%
Ascospores		-	spores/m^3	-
Basidiospores		-	spores/m^3	-
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	1	13	spores/m^3	13%
Hyphal Elements	4	53	spores/m^3	50%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**8**	**107**	**spores/m^3**	

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Dare County Schools
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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 17
Sample Location: Hall @ 212
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	2	27	spores/m^3	17%
Ascospores	6	80	spores/m^3	50%
Basidiospores	1	13	spores/m^3	8%
Smuts, *Periconia* , Myxomycetes		-	spores/m^3	-
Penicillium/Aspergillus Group	1	13	spores/m^3	8%
Hyphal Elements	2	27	spores/m^3	17%
Alternaria		-	spores/m^3	-
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**12**	**160**	**spores/m^3**	

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

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Project #: **25-1418**
Project Location: Cape Hatteras Elementary School
47500 Middle Ridge Road
Buxton, NC
Project Type: IAQ
PO/Claim #: _

Sample Number: 18
Sample Location: Outdoor Air
Date Collected: 4/19/25
Test Requested: Non-viable spore trap analysis
Date Analyzed: 4/27/25

Volume (L): 75
Percentage of Slide Read: 100.0%
Detection Limit: 13.33
Particulate Level: low-moderate
Notes: _

Spore Identification	Count	Results	Units	Percentage
Cladosporium	9	120	spores/m^3	17%
Ascospores	31	413	spores/m^3	57%
Basidiospores	6	80	spores/m^3	11%
Smuts, *Periconia* , Myxomycetes	3	40	spores/m^3	6%
Penicillium/Aspergillus Group	3	40	spores/m^3	6%
Hyphal Elements	1	13	spores/m^3	2%
Alternaria	1	13	spores/m^3	2%
Curvularia		-	spores/m^3	-
Epicoccum		-	spores/m^3	-
Cercospora		-	spores/m^3	-
Arthrinium		-	spores/m^3	-
Clear Brown		-	spores/m^3	-
Colorless		-	spores/m^3	-
Trichocladium		-	spores/m^3	-
Unidentified		-	spores/m^3	-
Ulocladium		-	spores/m^3	-
Torula		-	spores/m^3	-
Pithomyces		-	spores/m^3	-
Rust		-	spores/m^3	-
Drechslera/Bipolaris		-	spores/m^3	-
Tetraploa		-	spores/m^3	-
Chaetomium		-	spores/m^3	-
Stachybotrys		-	spores/m^3	-
		-	spores/m^3	-
Total Spores	**54**	**720**	**spores/m^3**	

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

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Non-Viable Spore Trap Analysis

Project #: 25-1418

Report Information:

DETECTION LIMITS (DL) for samples are the minimum number of spores or colonies forming units that can be satisfactorily identified for each sample type.

SPORE TRAP SAMPLES: Calculations based on volume of air sampled & percentage of slide counted, i.e. DL = 1000 L / 75 L if 100% of the slide is counted.

CODE 11: Fungal content and/or particulate level on slide too heavy to identify and enumerate fungal content.

Footnotes:

1. *Penicillium/Aspergillus* group spores are characterized by their small size, round to ovoid shape, being unicellular and usually colorless to lightly pigmented. There are numerous genera of fungi whose spore morphology is similar to that of the *Penicillium/Aspergillus* type. Several common examples would be *Acremonium, Paecilomyces,* and *Trichoderma* . Although the majority of spores placed in this group are *Penicillium* , *Aspergillus* , or a combination of both, these are not the only two possibilities.
2. Basidiospores are primarily transported indoors from outdoor sources and rarely grow indoors. A high basidiospore count indoors can be indicative of a wood decay problem or wet soil, and should be verified if and an outdoor source of the spores is not present.
3. Hyphae are the tubular filaments of fungi. Hyphae can fragment and become airborne much like spores and are potentially allergenic.
4. The Smut, *Periconia,* Myxomycete group is a group composed of three different types of organisms whose spores have similar morphologies. Smuts are plant pathogens, *Periconia* is a relatively uncommon mold indoors, and Myxomycetes are not fungi, but slime molds. Although these organisms do not typically proliferate indoors, their spores are potentially allergenic.
5. Rusts are plant pathogens. These fungi do not typically grow indoors unless an infected plant is present. Rust spores are potentially allergenic.

Direct Microscopic Exam Reporting:

We use a 400x-600x magnification microscope.

Reporting Quantification Levels are as follows:

Reporting Level	Quantitative Description
Occasional	1-10 per square inch
Few	11-100 per square inch
Moderate	101-1000 per square inch
Numerous	More than 1,000 per square inch

Submitted By Analyst:

Cathy A Richmond

Cathy A. Richmond, BS
4/27/2025