



August 9, 2021

**Client Name and Address:**

MAC Services, LLC  
21 Mill Pond Drive  
Rochester, MA 02770

Re: Microbial Analytical Results from: North Elementary School; 580 Whetstone Hill Rd; Somerset, MA

H2O Laboratory Number:03882

Dear Joseph Cooney,

We at H2O EnviroComp would like to thank you for your recent business. Samples were received on 8/3/2021 from a job located at North Elementary School; 580 Whetstone Hill Rd; Somerset, MA. The final report is enclosed for the following samples: 1-20.

Please note that environmental conditions should be taken into account when interpreting the associated data and sampling at any other time period may produce differing results. H2O EnviroComp follows prescribed procedures for the analysis of air cassettes and direct samples to identify and quantify particulate and microbiological contamination.

These results only pertain to this job and should not be used in the interpretation of any other job. This report may be reproduced only in its entirety.

If you have any questions please do not hesitate to call me at the number below.

Regards,

A handwritten signature in black ink, appearing to read 'Steven Grevelis', is written over a light blue horizontal line.

Steven Grevelis  
Laboratory Director

**Enclosures:**

- Analytical results
- Chain of Custody
- Fungal glossary



**Company:** MAC Services, LLC    **Inspector:** Joseph Cooney    **Date Sampled:** 8/2/2021

**Contact:** Joseph Cooney    **Project Name:** North Elementary School; 580 Whetstone Hill Rd; Somerset, MA    **Date Received:** 8/3/2021

**Address:** 21 Mill Pond Drive    **Project Notes:** Project Number: 2021-196    **Date Analyzed:** 8/9/2021

**City, ST, Zip:** Rochester, MA 02770    **Lab No:** 03882    **Date Reported:** 8/9/2021

**Phone:** 508-789-0983    **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-01    **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482047    **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X    **Total Liters:** 75  
**Location:** Southeast Area of Library

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	10	421	Rusts	ND	ND
Aspergillus/Penicillium-Like	150	6316	Spegazzinia	ND	ND
Cladosporium	23	968	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 184  
Analytical Sensitivity (Spore/Cubic Meter): 42  
Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 7747**

Reporting Notes: N/A = Not Applicable  
ND = None Detected  
\* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
Analyzed Date: 8/9/2021



**Company:** MAC Services, LLC    **Inspector:** Joseph Cooney    **Date Sampled:** 8/2/2021

**Contact:** Joseph Cooney    **Project Name:** North Elementary School;    **Date Received:** 8/3/2021  
580 Whetstone Hill Rd;  
Somerset, MA

**Address:** 21 Mill Pond Drive    **Project Notes:** Project Number: 2021-    **Date Analyzed:** 8/9/2021  
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**City, ST, Zip:** Rochester, MA 02770    **Lab No:** 03882    **Date Reported:** 8/9/2021

**Phone:** 508-789-0983    **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-02    **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482021    **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X    **Total Liters:** 75  
**Location:** Open Area "A" Center

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	2	84	Smuts	ND	ND
Basidiospores, Non-specified	5	211	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	8
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
<b>Total Fungal Count (Spore/Cubic Meter):</b>	<b>337</b>

**Reporting Notes:** N/A = Not Applicable  
ND = None Detected  
\* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
Analyzed Date: 8/9/2021



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**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
580 Whetstone Hill Rd;  
Somerset, MA

**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
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**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021

**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-03 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482036 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Open Area "B" Center

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	6	253	Smuts	ND	ND
Basidiospores, Non-specified	15	632	Rusts	ND	ND
Aspergillus/Penicillium-Like	7	295	Spegazzinia	ND	ND
Cladosporium	4	168	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 33  
Analytical Sensitivity (Spore/Cubic Meter): 42  
Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 1389**

Reporting Notes: N/A = Not Applicable  
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**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
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**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-04 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482037 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Top Level - North End Classroom

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	9	379	Smuts	ND	ND
Basidiospores, Non-specified	18	758	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	3	126	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 31  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 1305**

Reporting Notes: N/A = Not Applicable  
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**Mold Identification by Samples**

**Sample Number:** 03882-05 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482035 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** "County St - 2" Hallway, Center

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	9	379	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	1	42	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	1	42	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 11  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 463**

**Reporting Notes:** N/A = Not Applicable  
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 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
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**Mold Identification by Samples**

**Sample Number:** 03882-06 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482034 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Open Area "D" North End

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	4	168	Rusts	ND	ND
Aspergillus/Penicillium-Like	9	379	Spegazzinia	ND	ND
Cladosporium	2	84	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 16  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 674**

**Reporting Notes:** N/A = Not Applicable  
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 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
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**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-07 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482038 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Open Area "C", East Side  
 Class Room Center

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	14	589	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 15  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 632**

**Reporting Notes:** N/A = Not Applicable  
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 \* = Type detected observed in clumps

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 Analyzed Date: 8/9/2021





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**Contact:** Joseph Cooney    **Project Name:** North Elementary School; 580 Whetstone Hill Rd; Somerset, MA    **Date Received:** 8/3/2021

**Address:** 21 Mill Pond Drive    **Project Notes:** Project Number: 2021-196    **Date Analyzed:** 8/9/2021

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**Phone:** 508-789-0983    **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-08    **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482033    **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X    **Total Liters:** 75  
**Location:** Open Area "E", East Side Class Room Center

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	5	211	Smuts	ND	ND
Basidiospores, Non-specified	25	1053	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	1	42	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 31  
Analytical Sensitivity (Spore/Cubic Meter): 42  
Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 1305**

Reporting Notes: N/A = Not Applicable  
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Analyzed Date: 8/9/2021



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 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
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**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-09 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482029 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Open Area "F", Center of West Side Class Room

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	2	84
Basidiospores, Non-specified	34	1432	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 39  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 1642**

Reporting Notes: N/A = Not Applicable  
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**Contact:** Joseph Cooney    **Project Name:** North Elementary School; 580 Whetstone Hill Rd; Somerset, MA    **Date Received:** 8/3/2021

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**Mold Identification by Samples**

**Sample Number:** 03882-10    **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482030    **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X    **Total Liters:** 75  
**Location:** Open Area "G", Center of East Side Class Room

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	21	884	Rusts	ND	ND
Aspergillus/Penicillium-Like	16	674	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 38  
Analytical Sensitivity (Spore/Cubic Meter): 42  
Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 1600**

Reporting Notes: N/A = Not Applicable  
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**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-11 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482031 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Open Area "H", Center of West Side Class Room

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	36	1516	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 38  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 1600**

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**Mold Identification by Samples**

**Sample Number:** 03882-12 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482032 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** East Side of Gym, Center of Area

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	27	1137	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 28  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 1179**

**Reporting Notes:** N/A = Not Applicable  
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 Analyzed Date: 8/9/2021



**Company:** MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 8/2/2021  
**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
 196  
**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-13 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482028 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Room with "W5" Exterior Door

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	ND	ND	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	ND
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12

**Total Fungal Count (Spore/Cubic Meter): ND**

Reporting Notes: N/A = Not Applicable  
 ND = None Detected  
 \* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
 Analyzed Date: 8/9/2021



**Company:** MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 8/2/2021  
**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
 196  
**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-14 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482025 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Area "J" Room

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	1	42
Basidiospores, Non-specified	1	42	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	2
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
<b>Total Fungal Count (Spore/Cubic Meter):</b>	<b>84</b>

Reporting Notes: N/A = Not Applicable  
 ND = None Detected  
 \* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
 Analyzed Date: 8/9/2021



**Company:** MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 8/2/2021  
**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
 196  
**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-15 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482024 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Room 2

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	1	42	Rusts	ND	ND
Aspergillus/Penicillium-Like	31	1305	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 32  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 1347**

**Reporting Notes:** N/A = Not Applicable  
 ND = None Detected  
 \* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
 Analyzed Date: 8/9/2021





**Company:** MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 8/2/2021  
**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
 196  
**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-16 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482019 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Room 3

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	ND	ND	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: ND  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): ND**

Reporting Notes: N/A = Not Applicable  
 ND = None Detected  
 \* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
 Analyzed Date: 8/9/2021



**Company:** MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 8/2/2021  
**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
 196  
**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-17 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482020 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Room 6

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	ND	ND	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: ND  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): ND**

Reporting Notes: N/A = Not Applicable  
 ND = None Detected  
 \* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
 Analyzed Date: 8/9/2021



**Company:** MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 8/2/2021  
**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
 196  
**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-18 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482027 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Pre-K Room Southeast Corner

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	ND	ND	Smuts	6	253
Basidiospores, Non-specified	ND	ND	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	6
Analytical Sensitivity (Spore/Cubic Meter):	42
Number of Traverses:	12
<b>Total Fungal Count (Spore/Cubic Meter):</b>	<b>253</b>

Reporting Notes: N/A = Not Applicable  
 ND = None Detected  
 \* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
 Analyzed Date: 8/9/2021



**Company:** MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 8/2/2021  
**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
 196  
**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-19 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482022 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Kitchen @ Center on Butcher Block Table

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	2	84	Smuts	98	4126
Basidiospores, Non-specified	13	547	Rusts	ND	ND
Aspergillus/Penicillium-Like	1872	78821	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1

Total Fungal Raw Count: 1985  
 Analytical Sensitivity (Spore/Cubic Meter): 42  
 Number of Traverses: 12  
**Total Fungal Count (Spore/Cubic Meter): 83579**

**Reporting Notes:** N/A = Not Applicable  
 ND = None Detected  
 \* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
 Analyzed Date: 8/9/2021



**Company:** MAC Services, LLC **Inspector:** Joseph Cooney **Date Sampled:** 8/2/2021  
**Contact:** Joseph Cooney **Project Name:** North Elementary School; **Date Received:** 8/3/2021  
 580 Whetstone Hill Rd;  
 Somerset, MA  
**Address:** 21 Mill Pond Drive **Project Notes:** Project Number: 2021- **Date Analyzed:** 8/9/2021  
 196  
**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03882 **Date Reported:** 8/9/2021  
**Phone:** 508-789-0983 **Report Status:** Version 1

**Mold Identification by Samples**

**Sample Number:** 03882-20 **Sample Medium:** Allergenco-D  
**Client Sample ID:** 3482026 **Sampling Rate:** 15L/Min for 5 Minutes  
**Magnification:** 600 X **Total Liters:** 75  
**Location:** Outdoors

**Sample Data:**

Type:	Raw Count	Count/ Cubic Meter	Type:	Raw Count	Count/ Cubic Meter
Ascospores, Non-specified	64	2695	Smuts	14	589
Basidiospores, Non-specified	193	8126	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	8	337	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	2	84	Coprinus	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Memnoniella	ND	ND			

**Sample Data Comments:**

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1	
Background Density; 1 (Low) to 5 (Overloaded):	1	
Total Fungal Raw Count:	282	
Analytical Sensitivity (Spore/Cubic Meter):	42	
Number of Traverses:	12	
<b>Total Fungal Count (Spore/Cubic Meter):</b>	<b>11874</b>	

Reporting Notes: N/A = Not Applicable  
 ND = None Detected  
 \* = Type detected observed in clumps

Analyzed by: Steven Grevelis  
 Analyzed Date: 8/9/2021



Client: MAC Services, LLC Phone: 508-789-0983 Client Address: 21 Mill Pond Drive Rochester, MA  
 Project Name: Somerset - North Elementary School Project Number: 2021-196  
 Proj. Address: 580 Whetstone Hill Rd. Town: Somerset State: MA Zip Code: \_\_\_\_\_

Sampled By: Joseph Cooney Email Address(es) to Send Report to: \_\_\_\_\_ H2O Lab ID: 03882  
 Date: 8-2-21 Project Manager: Joseph Cooney Email 1: jcooney@macmoldandmore.com  
 Turn Around Time:  Rush  24 Hour  48 Hour  3 Day  5 Day Email 2: \_\_\_\_\_

SAMPLE ID	LOCATION	Sample Type (Air, Tape Lift, Bulk)	Volume Data			Sample Media (Air-O-Cell, Allergenco-D, etc)
			Rate (l/min)	Time (min)	Volume	
3482047	South east Area of Library	Air	15	5	75	Allergenco-D
<del>3482041</del> 3482021 8/4/2021 per Joe Cooney	Open Area 'A' center	Air	15	5	75	Allergenco-D
3482036	Open Area 'B' center	Air	15	5	75	Allergenco-D
3482037	Top Level - North end class room	Air	15	5	75	Allergenco-D
3482035	'County St-2' hallway, center	Air	15	5	75	Allergenco-D
3482034	Open Area 'D' @ North end	Air	15	5	75	Allergenco-D
3482038	Open Area 'C', East side class room center	Air	15	5	75	Allergenco-D
3482033	Open Area 'E', East side class room center	Air	15	5	75	Allergenco-D
3482029	Open Area 'F', Center of West side class room	Air	15	5	75	Allergenco-D
3482030	Open Area 'G', Center of East side class room	Air	15	5	75	Allergenco-D

Relinquished by: Joseph Cooney  
 Received by: Adam Guli

Date/Time: 8-2-21  
 Date/Time: 8/3/2021 VIA USPS

7/24/8  
74/53  
75/52  
75/51  
74/50  
77/49  
77/49



Client: MAC Services, LLC Phone: 508-789-0983 Client Address: 21 Mill Pond Drive Rochester, MA  
 Project Name: Somerset North Elementary School Project Number: 2021-196  
 Proj. Address: 380 Whetstone Hill Rd. Town: Somerset State: MA Zip Code: \_\_\_\_\_

Sampled By: Joseph Cooney Email Address(es) to Send Report to: \_\_\_\_\_ H2O Lab ID: 03882  
 Date: 8-2-21 Project Manager: Joseph Cooney Email 1: jcooney@macmoldandmore.com  
 Turn Around Time:  Rush  24 Hour  48 Hour  3 Day  5 Day Email 2: \_\_\_\_\_

SAMPLE ID	LOCATION	Sample Type (Air, Tape Lift, Bulk)	Volume Data			Sample Media (Air-O- Cell, Allergenco-D, etc)
			Rate (l/min)	Time (min)	Volume	
3482031	Open Area (H), Center of West side classroom	Air	15	5	75	Allergenco-D
3482032	EAST side of GYM, center of Area	Air	15	5	75	Allergenco-D
3482028	Room with WS exterior door.	Air	15	5	75	Allergenco-D
3482025	AREA 5 room	Air	15	5	75	Allergenco-D
3482024	Room 2	Air	15	5	75	Allergenco-D
3482019	Room 3	Air	15	5	75	Allergenco-D
3482020	Room 6	Air	15	5	75	Allergenco-D
3482027	Pre-K room @ Southeast corner	Air	15	5	75	Allergenco-D
3482022	Kitchen @ center on Butcher block table.	Air	15	5	75	Allergenco-D
3482026	Outdoors @	Air	15	5	75	Allergenco-D

70/124%  
79/48  
74/43  
75/49  
73/52  
74/54

Relinquished by: Joseph Cooney  
 Received by: Adam Guli

Date/Time: 8-2-21 Page 2 of 2  
 Date/Time: 8/3/2021 VIA PICKUP



## H2O EnviroComp Fungal Glossary

Note: The following list is not inclusive of all molds and fungi.

**Absidia:** Found outdoors in soil and decaying vegetation. Found indoors in stored grains and other foods. Absidia is recognized as an allergen. In immunocompromised patients pulmonary invasions, the meninges (brain or spinal cord), and kidney infections can result from exposure.

**Acromonium:** Found outdoors in decaying or dead plant materials. Found indoors in food and wet, cellulose based building materials. Grows well indoors when there is a high water content (>0.90 Aw). Type I (hay fever, asthma) and Type III (hypersensitivity pneumonitis) allergen. Known to cause infections in immunodeficient patients and persons with wound injuries. There are 100 known species.

**Alternaria:** Common saprobe and pathogen of plants. Typically found on plant tissue, decaying wood, and foods, soil and air outdoors. Indoors it is found near condensation (window frames, showers), house dust (in carpets, and air). It also colonizes building supplies, computer disks, cosmetics, leather, optical instruments, paper, sewage, stone monuments, textiles, wood pulp, and jet fuel. Type I allergies (hay fever, asthma) and Type III (hypersensitivity pneumonitis). Alternaria spores are one of the most common and potent indoor and outdoor airborne allergens. Additionally, Alternaria sensitization has been determined to be one of the most important factors in the onset of childhood asthma. Synergy with Cladosporium or Ulocladium may increase the severity of symptoms.

**Arthrinium:** Found outdoors in decaying plant material and soil. Found indoors on cellulose containing materials. *Arthrinium sphaerospermum* is recognized as an allergen.

**Ascospores:** Ascospores are found everywhere in nature. Ascospores are the result of sexual reproduction and produced in a saclike structure called an ascus. All ascospores belong to members of the Phylum Ascomycota, which encompasses a plethora of genera worldwide.

**Aspergillus/Penicillium:** These species are common contaminants on various substances. This organism causes food spoilage and is an indicated organism for dampness indoors. Some of these species are known to produce mycotoxins. If health effects are noticed by occupants or workers, in an environment that evidences an amplification of Penicillium, identification of species is helpful. These especially opportunistic pathogens may cause respiratory infections. Some varieties produce mycotoxins and aflatoxins.

**Basidiospores:** Found outdoors in gardens forests and woodlands. Plant pathogen. Indoors it is the agent of “dry rot” and other fungi causing white and brown wood rot. Grow and destroy the structural wood of buildings. *Poria incrassata* causes a particularly destructive dry rot in buildings. A probably common allergen. Type I allergies (hay fever, asthma).

**Bipolaris:** Found outdoors in plant debris and soil. Found indoors on houseplants and indoor building materials. Type I allergies (hay fever, asthma). Most commonly reported cause of allergic and chronic invasive sinusitis.

**Botrytis:** Plant pathogen responsible for causing gray mold (*B. cinerea*) on grapes, strawberries, raspberries, blackberries, low bush blueberries, lettuce, cabbage and onion. Indoors it is found on houseplants fruits and vegetables. Type I (hay fever, asthma) and type III (hypersensitivity) allergies.





## H2O EnviroComp Fungal Glossary

**Candida:** Found in leaves, flowers, soil, water and is an inhabitant of the skin, mouth and vagina. It is unknown what suitable substrates are in the indoor environment. Has been reported as an allergen. Occurs in patients taking drugs such as oral contraceptives and antibiotics.

**Cercospora:** Found outdoors on plants. It is a plant parasite causing leaf spot. It is unknown what substrates it prefers indoors. Thrives in moderate to high humidity its allergenic potential is unknown.

**Chaetomium:** Found outdoors in soil, seeds, dung, woody and straw materials. Indoors found on damp sheet rock paper. Type I allergies (hay fever, asthma).

**Coprinus:** Found outdoors in wood, dung, litter and soil. Industrial uses: Popular experimental organism in genetic research

**Cladosporium:** Found outdoors in soil of many different types. Indoors it is found on many substrates including textiles, wood, and moist windowsills. Cladosporium grows at 0degrees C, and so is associated with refrigerated foods. It is a common and important allergen. Type I allergies (hay fever, asthma).

**Cladophialophora (form of Cladosporium): Phialophora:** Found outdoors in wood roots, stems and leaves of plants and grasses, and soil. It is a water loving fungus. Allergenicity has not been studied.

**Coprinus:** Found outdoors in wood, dung, litter and soil. Industrial uses: Popular experimental organism in genetic research

**Curvularia:** found outdoors in plant saprobe and pathogen to cereal plants and soil. Found indoors in paper and wood products. Type I allergies (asthma and hay fever) A relatively common cause of allergic fungal sinusitis.

**Dactylaria:** Found outdoors in decaying soil and leaves. Dactylaria species comprise a very small proportion of the fungal biota. There have been several reports of opportunistic infections caused by these genera but a true pathogenic role has not been firmly established. No information is available regarding upper respiratory health effects, or toxicity. Allergenicity has not been studied.

**Epicoccum:** Found outdoors in plant debris and soil. Found indoors in paper and textiles. Type I allergies (asthma and hay fever).

**Fusarium:** Found outdoors in soil. Occasionally found on a variety of substrates. Fusarium requires very wet conditions. Aw=0.86-0.91 (minimum for various species). . Type I allergies (asthma and hay fever).

**Gandomera:** Found outdoors on conifers and hardwoods worldwide, causing white rot, root rot, and stem rot. Ganoderma species are known to cause allergies in people on a worldwide scale.

**Memmoniella:** Found outdoors in plant litter soil and many types of plants and trees. Found indoors on a variety of substrates (cellulolytic). Allergens are unknown. Very closely related to Stachybotrys.

**Myxomycetes:** Found outdoors in decaying logs and stumps, particularly in forested areas. Only found occasionally indoors. Type I allergies (hay fever, asthma)



## H2O EnviroComp Fungal Glossary

**Nigrospora:** Found outdoors in decaying plants and soil. Rarely found indoors. Type I allergies (asthma and hay fever).

**Pithomyces:** Found outdoors in bark, leaf litter and soils. Indoors it is found in paper and requires high levels of moisture for spore germination. Its allergenic potential is unknown.

**Rust:** Rusts are parasitic to many types of plants. Rust fungi require a living plant host for growth. Type I allergens (hay fever, asthma). There are 5000 known species of rusts belonging to at least 150 different genera. Rusts are the cause of great economic losses on many cultivated plants.

**Scopulariopsis (Hyphomycetes) Teleomorph: *Microascus* (Ascomycetes)** Mainly soil-borne, but also frequently isolated from wood, grain, fruit, paper, and food such as meat and dairy products. Also isolated from indoor environments. ***Most species can liberate arsenic gaseous compounds that can lead to arsenic poisoning. Has recently been associated with invasive human infections.***

**Spegazzinia:** Found outdoors in plants and soil. It is unknown what substrates it is found on indoors. Allergenic properties are unknown.

**Stachybotrys:** Stachybotrys grows on wet materials that contain cellulose and low nitrogen content. Usually but not limited to building materials such as wallboard paper (unfinished drywall) that has a high water activity over a long period of time. It produces several types of toxic metabolites and mycotoxins that can irritate skin and mucous membranes. One of the mycotoxins it produces called satratoxin is also toxic when inhaled. ***Extreme care should be taken when this organism is amplified indoors.*** Individuals with chronic exposure to the toxin produced by this fungus reported cold and flu symptoms, sore throat, diarrhea, headaches, fatigue, dermatitis, intermittent local hair loss, and generalized malaise. The toxins produced by this fungus will suppress the immune system affecting the lymphoid tissue and the bone marrow.

**Stemphylium:** Found outdoors in soil, wood, decaying vegetation. Some species found on leaves are plant pathogens. Indoors growth is rare. Known allergen. Shares allergens with Alternaria. Type I allergies (hay fever, asthma).

**Trichoderma:** Found outdoors in soil, wood, decaying vegetation. Some species found on leaves are plant pathogens. Indoors growth on paper, textiles, and wet wood. Known allergen. Type I allergies (hay fever, asthma), Type III allergies (hypersensitivity), and has occasionally been associated with disease in immunocompromised individuals.

**Torula:** Found outdoors in leaves, plant roots, plant litter, soil and wood. Indoors it is found in paper, wicker furniture and wood. Type I allergies (hay fever, asthma).

**Ulocladium:** Found outdoors in soil, dung, paint, grasses, fibers, wood, decaying plant material, paper and textiles. Indoors it is found in gypsum board, paper, paint, tapestries, jute and other straw materials. Ulocladium has a high water requirement. As an allergen it is major with type I allergies (hay fever, asthma) and it cross reacts with Alternaria, adding to the burden of Alternaria-sensitive patients.

**Wallemia:** Found outdoors in hay and soil. Found indoors in jams, salted fish, mattresses, textiles and wood in crawl spaces. It is a Type I (hay fever and asthma) allergen.

**Zygomycetes:** Found outdoors in decaying plant and animal matter. Found indoors in fruits and vegetables. It is a Type I (hay fever, asthma) and Type III (hypersensitivity) allergen. Many zygomycetes are extremely fast growing and can inhibit other fungi when competing for food and space.