

August 28, 2020

#### **Client Name and Address:**

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

Re: Microbial Analytical Results from: Middle School; 1141 Brayton Ave; Somerset, MA

H2O Laboratory Number:03533

Dear Joseph Cooney,

We at H2O EnviroComp would like to thank you for your recent business. Samples were received on 8/21/2020 from a job located at Middle School; 1141 Brayton Ave; Somerset, MA. The final report is enclosed for the following samples: 1-21.

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,

Steven Grevelis Laboratory Director

Enclosures:

- Analytical results
- Chain of Custody
- Fungal glossary



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

8/21/2020

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received:

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/25/2020

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

#### Mold Identification by Samples

Sample Number: 03533-01 Sample Medium: Allergenco-D
Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Outdoor @ North Entrance

Sample Data:

·		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	11	556	Smuts	ND	ND
Basidiospores, Non-specified	24	1213	Rusts	ND	ND
Aspergillus/Penicillium-Like	11	556	Spegazzinia	ND	ND
Cladosporium	1126	56893	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	51	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	77	3891	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:	1250	
Analytical Sensitivity (Spore/Cubic Meter):	51	

itivity (Spore/Cubic Meter): 51

Number of Traverses: 10

Total Fungal Count (Spore/Cubic Meter): 63158

Reporting Notes: N/A = Not Applicable

ND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 1 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-02 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Kitchen Next to Main Sinks

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	6	253	Smuts	2	84
Basidiospores, Non-specified	14	589	Rusts	ND	ND
Aspergillus/Penicillium-Like	8	337	Spegazzinia	ND	ND
Cladosporium	59	2484	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	1	42	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		-	<u>.</u>
Oidium	ND	ND	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	91
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12 **Total Fungal Count (Spore/Cubic Meter): 3832** 

Reporting Notes: N/A = Not Applicable

ND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 2 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-03 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

**Location:** Cafeteria

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	5	211	Smuts	ND	ND
Basidiospores, Non-specified	13	547	Rusts	ND	ND
Aspergillus/Penicillium-Like	1	42	Spegazzinia	ND	ND
Cladosporium	25	1053	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			<u>.</u>
Oidium	ND	ND	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	44
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12

Total Fungal Count (Spore/Cubic Meter): 1853

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 3 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MΑ

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-04 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

**Location:** Room 34

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	6	253	Smuts	1	42
Basidiospores, Non-specified	29	1221	Rusts	ND	ND
Aspergillus/Penicillium-Like	251	10568	Spegazzinia	ND	ND
Cladosporium	10	421	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	2	84	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	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	299
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12 **Total Fungal Count (Spore/Cubic Meter):** 12589

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 4 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-05 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Corridor @ Water Fountain

Next to Room 31

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	7	295	Rusts	ND	ND
Aspergillus/Penicillium-Like	29	1221	Spegazzinia	ND	ND
Cladosporium	5	211	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:	41
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12 **Total Fungal Count (Spore/Cubic Meter):** 1726

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 5 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MΑ

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-06 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification:600 XTotal Liters:75

**Location:** Room 17

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	2	84	Smuts	ND	ND
Basidiospores, Non-specified	7	295	Rusts	ND	ND
Aspergillus/Penicillium-Like	52	2189	Spegazzinia	ND	ND
Cladosporium	27	1137	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	1	42	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:	89
Analytical Sensitivity (Spore/Cubic Meter)	42

Number of Traverses: 12

Total Fungal Count (Spore/Cubic Meter): 3747

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 6 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MΑ

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-07 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Library @ East End

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	5	253	Smuts	14	707
Basidiospores, Non-specified	13	657	Rusts	ND	ND
Aspergillus/Penicillium-Like	2003	101204	Spegazzinia	ND	ND
Cladosporium	49	2476	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	5	253	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	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	2089
Analytical Sensitivity (Spore/Cubic Meter)	51

Number of Traverses: 10

Total Fungal Count (Spore/Cubic Meter): 105549

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 7 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

City, ST, Zip: Rochester, MA 02770 Lab No: 03533 Date Reported: 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-08 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Library @ West End

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	4	202	Smuts	5	253
Basidiospores, Non-specified	15	758	Rusts	ND	ND
Aspergillus/Penicillium-Like	2897	146375	Spegazzinia	ND	ND
Cladosporium	47	2375	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	51	Nigrospora	ND	ND
Pithomyces	1	51	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	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	2970
Analytical Sensitivity (Spore/Cubic Meter):	51

Number of Traverses: 10

Total Fungal Count (Spore/Cubic Meter): 150063

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 8 of 21



#### H2O EnviroComp Direct Exam Report

24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

## **Mold Identification by Samples**

Sample Number: 03533-09 Sample Medium: EMS Tape Lift Client Sample ID: Sampling Rate: NA

Magnification: 600 X Location: Library from Ceiling Tile @

West End

Sample Data:

Type:	Result
Ascospores, Non-specified	ND
Basidiospores, Non-specified	ND
Aspergillus/Penicillium-Like	ND
Cladosporium	High
Chaetomium	ND
Ganoderma	ND
Pithomyces	ND
Alternaria	ND
Botrytis	ND
Curvularia	ND
Epicoccum	ND
Memnoniella	ND

Type:	Result
Smuts	ND
Rusts	ND
Spegazzinia	ND
Stachybotrys	ND
Ulocladium	ND
Coprinus	ND
Un-ID Spore	ND
Pollen	ND
Hyphal Frags	ND
Insect Frags	ND

**Sample Comments:** 

Reporting Notes: N/A = Not Applicable

ND = None Detected

Rare = 1-10 Low = 11 to 100 Medium = 101 to 1000

High = >1000

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 9 of 21

<sup>\* =</sup> Sample contains fruiting structures and/or hyphae associated with this spore type.



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MΑ

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-10 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

**Location:** 4112153

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	1	42	Smuts	1	42
Basidiospores, Non-specified	3	126	Rusts	ND	ND
Aspergillus/Penicillium-Like	7	295	Spegazzinia	ND	ND
Cladosporium	4	168	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):	2
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 ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 10 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/25/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/26/2020

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

#### Mold Identification by Samples

Sample Number: 03533-11 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

**Location:** Room 3

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	4	168	Smuts	ND	ND
Basidiospores, Non-specified	23	968	Rusts	ND	ND
Aspergillus/Penicillium-Like	24	1011	Spegazzinia	ND	ND
Cladosporium	16	674	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	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	67
Analytical Sensitivity (Spore/Cubic Meter):	42

12

Total Fungal Count (Spore/Cubic Meter): 2821

Number of Traverses:

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/25/2020 Page 11 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-12 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Nurse Office

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	12	505	Smuts	ND	ND
Basidiospores, Non-specified	9	379	Rusts	ND	ND
Aspergillus/Penicillium-Like	478	20126	Spegazzinia	ND	ND
Cladosporium	11	463	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	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	511
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12 **Total Fungal Count (Spore/Cubic Meter): 21516** 

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 12 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-13 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Corridor @ Nurse Office

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	15	632	Rusts	ND	ND
Aspergillus/Penicillium-Like	121	5095	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:	140
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12 **Total Fungal Count (Spore/Cubic Meter):** 5895

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 13 of 21



## H2O EnviroComp Direct Exam Report

24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

## **Mold Identification by Samples**

Sample Number: 03533-14 Sample Medium: EMS Tape Lift Client Sample ID: Sampling Rate: NA

Magnification: CT in Corridor @ Nurse Office

Sample Data:

Type:	Result
Ascospores, Non-specified	ND
Basidiospores, Non-specified	ND
Aspergillus/Penicillium-Like	ND
Cladosporium	ND
Chaetomium	ND
Ganoderma	ND
Pithomyces	ND
Alternaria	ND
Botrytis	ND
Curvularia	ND
Epicoccum	ND
Memnoniella	ND

Type:	Result
Smuts	ND
Rusts	ND
Spegazzinia	ND
Stachybotrys	ND
Ulocladium	ND
Coprinus	ND
Un-ID Spore	ND
Pollen	ND
Hyphal Frags	ND
Insect Frags	ND

**Sample Comments:** 

Reporting Notes: N/A = Not Applicable

ND = None Detected

Rare = 1-10 Low = 11 to 100 Medium = 101 to 1000

High = >1000

Analyzed by: Steven Grevelis Analyzed Date: 8/28/2020

Page 14 of 21

<sup>\* =</sup> Sample contains fruiting structures and/or hyphae associated with this spore type.



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-15 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Corridor in Guidance Next to

Bathroom

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	4	168	Smuts	1	42
Basidiospores, Non-specified	5	211	Rusts	ND	ND
Aspergillus/Penicillium-Like	178	7495	Spegazzinia	ND	ND
Cladosporium	4	168	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	1	42	Nigrospora	ND	ND
Pithomyces	1	42	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			<u>.</u>
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:	194
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12

Total Fungal Count (Spore/Cubic Meter): 8168

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 15 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-16 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

**Location:** Room 10

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	14	589	Smuts	ND	ND
Basidiospores, Non-specified	49	2063	Rusts	ND	ND
Aspergillus/Penicillium-Like	287	12084	Spegazzinia	1	42
Cladosporium	5	211	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:	357
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12

Total Fungal Count (Spore/Cubic Meter): 15032

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 16 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-17 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

**Location:** Room 60

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	2	84	Smuts	ND	ND
Basidiospores, Non-specified	11	463	Rusts	ND	ND
Aspergillus/Penicillium-Like	113	4758	Spegazzinia	ND	ND
Cladosporium	4	168	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		-	<u>.</u>
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:	130
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12 **Total Fungal Count (Spore/Cubic Meter):** 5474

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 17 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MΑ

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-18 Sample Medium: Allergenco-D
Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

Location: Room 57

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	1	42
Basidiospores, Non-specified	1	42	Rusts	ND	ND
Aspergillus/Penicillium-Like	74	3116	Spegazzinia	ND	ND
Cladosporium	2	84	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	1	42	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		-	<u>.</u>
Oidium	ND	ND	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	79
Analytical Sensitivity (Spore/Cubic Meter)	42

Number of Traverses: 12

Total Fungal Count (Spore/Cubic Meter): 3326

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 18 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MΑ

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-19 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification:600 XTotal Liters:75

Location: Room 47

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	1	51	Smuts	ND	ND
Basidiospores, Non-specified	4	202	Rusts	ND	ND
Aspergillus/Penicillium-Like	2148	108531	Spegazzinia	ND	ND
Cladosporium	28	1415	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	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	2181
Analytical Sensitivity (Spore/Cubic Meter):	51

Number of Traverses: 10

Total Fungal Count (Spore/Cubic Meter): 110198

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 19 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Date Received:

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

8/21/2020

Contact: Joseph Cooney Project Name: Middle School; 1141

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-20 Sample Medium: Allergenco-D Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification:600 XTotal Liters:75

**Location:** Room 53

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	1	42
Basidiospores, Non-specified	4	168	Rusts	ND	ND
Aspergillus/Penicillium-Like	32	1347	Spegazzinia	ND	ND
Cladosporium	11	463	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:	48
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12 **Total Fungal Count (Spore/Cubic Meter): 2021** 

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 20 of 21



24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289

Company: MAC Services, LLC Inspector: Joseph Cooney Date Sampled: Not

Provided

Contact: Joseph Cooney Project Name: Middle School; 1141 Date Received: 8/21/2020

Brayton Ave; Somerset,

MA

Address: 21 Mill Pond Drive Project Notes: Project Number: 2020- Date Analyzed: 8/28/2020

211

**City, ST, Zip:** Rochester, MA 02770 **Lab No:** 03533 **Date Reported:** 8/28/2020

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

#### Mold Identification by Samples

Sample Number: 03533-21 Sample Medium: Allergenco-D
Client Sample ID: Sampling Rate: 15L/Min for 5 Minutes

Magnification: 600 X Total Liters: 75

**Location:** Room 44

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Type:	Raw Count	Meter	Type:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	4	168	Rusts	ND	ND
Aspergillus/Penicillium-Like	55	2316	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	1		

**Sample Data Comments:** 

Skin Fragment Prevalence; 1 (Low) to 4 (High):	1
Background Density; 1 (Low) to 5 (Overloaded):	1
Total Fungal Raw Count:	62
Analytical Sensitivity (Spore/Cubic Meter):	42

Number of Traverses: 12

Total Fungal Count (Spore/Cubic Meter): 2611

Reporting Notes: N/A = Not ApplicableND = None Detected

\* = Type detected observed in clumps

Analyzed by: Steven Grevelis

Analyzed Date: 8/28/2020 Page 21 of 21

Received by:\_

Client: MAC Service	es, LLCPhone:508-789-0983	Client Addres	s: 21 Mill Po	nd Drive	Roche	ester, MA	
Project Name:Y	Middle School		Number: 20		,		
Proj. Address:	1141 Brayton Ave.	_Town:_Somers			State: MA	Zip Code	
C L LD Local	a Coopey						T
Sampled By: Joseph Cooney  Date: Project Manager: Joseph Cooney  Email 1: jcoo					H2O Lab ID:		
Turn Around Time: ☐Rush ☐24 Hour ☐48 Hour ☐3 Day ►5 Day Email 2:					03533		
			Sample Type	Volume Data			Sample Media (Air-O-
SAMPLE ID	LOCATION		(Air, Tape Lift, Bulk)	Rate (I/min)	Time (mln)	Volume	Cell, Allergenco-D, etc)
4112139	Out door @ North Entrance		Air	15	5	75	Allergenco-D
4112144	Kitchen next to main sink	5	Air	15	5	75	Allergenco-D
4112149	CAFE TAVIA		Air	15	5	75	Allergenco-D
411 2154	Ram 34		Air	15	5	75	Allergenco-D
4112159	Corridor @ water Countain nex	toom 31	Air	15	5	75	Allergenco-D
4/12138	Room 17		Air	15	5	75	Allergenco-D
4112143	Library e Easterd		Air	15	5	75	Allergenco-D
4112148	Library @ West end		Air	15	5	75	Allergenco-D
203351	Library from ceiling the @ W.	est End	TAPE -Air Lift	15-	5	75	Tape Lift Allergence-DEMS
4112153	RoomZ		Air	15	5	75	Allergenco-D
Relinquished by:	seph Cooney	Date/Time:	8-19-	202	$\circ$	Page	1 of 72

Date/Time: 8/21/2020 VIA PICKUP

Phone:508-789-0983 Client Address: 21 Mill Pond Drive Client: MAC Services, LLC Rochester, MA Project Number: 2020.211 Project Name: Brayton Ave-114 Proj. Address: Town: Somerset State: MA Zip Code Sampled By: Joseph Cooney Email Address(es) to Send Report to: H2O Lab ID: Project Manager:\_Joseph Cooney Email 1: jcooney@macmoldandmore.com Date: 03533 Turn Around Time: ☐Rush ☐24 Hour □з Дау ₹ 5 Day 48 Hour Email 2: **Volume Data** Sample Type Sample Media (Air-O-SAMPLE ID LOCATION (Air, Tape Rate Time Cell, Allergenco-D, Lift, Bulk) (I/min) (min) Volume etc) Room 3 Air 5 15 75 Allergenco-D Nurse office Air 75 15 5 Allergenco-D Zovridar @ Nura office. 4112147 Air Allergenco-D 5 75 15 ct in corridor @ Nurse office TAPELIFA 203352 AIF 75 Allergenco-D' Torridor in bundance noxt to 411212152 Air 15 5 75 Allergenco-D Room 10 5 15 75 Allergenco-D Air Roun 15 5 75 Air Allergenco-D 5 15 75 Air Allergenco-D 4112155 Air 15 5 75 Allergenco-D (Coum 4112156 Air 15 Allergenco-D 5 75 Relinquished by: Joseph Cooney

Received by: 4/12136 Koom Date/Time: 8/21/2020 VIA PICKUP

Date/Time:

AIR

Page 7 of 7



# 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.

**Acremonium:** 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 (hat 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.

**Asperigillus/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. cincera*) 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.

**Memnoniella:** 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: 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 Type1 (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.