



DETAIL ASSOCIATES, INC.

ENVIRONMENTAL ENGINEERING CONSULTANTS

November 15, 2021

Dr. Joseph Cirillo
Palisades Park Board of Education
1 Veterans Plaza
Palisades Park, New Jersey 07650

**Re: *Indoor Air Quality Mold Assessment, Basement Hallway - Project #NJ21-0410
Lindbergh School, 401 Glen Ave, Palisades Park, New Jersey 07650***

Dear Dr. Cirillo:

Thank you for using the services of Detail Associates, Inc. Enclosed are the findings along with analytical results, for the Indoor Air Quality (IAQ) Mold Assessment performed at the above referenced location on November 14, 2021. The IAQ mold assessment focused on the basement hallway, where air samples were collected from outside rooms #101, #104 and #107.

In total, I collected four (4) air samples to establish airborne mold spore levels within the subject areas. The microbiological air testing protocol involved the use of an Air-O-Cell cassette with a high-volume pump. These were analyzed by EMSL Analytical, Inc. for colony structures per cubic meter of air (CTS/m³). The samples were analyzed following the analysis for determination of fungal spores & particulates (Methods MICRO-SOP-201, ASTM D7391).

Laboratory results show acceptable levels of airborne mold spores in all collected samples. The Certificate of Analysis is enclosed and a laboratory report.

Thank you. We appreciate the opportunity to provide environmental consulting services. Should you have any additional questions or require further information, please contact our office at your convenience.

Sincerely yours,

DETAIL ASSOCIATES, INC. (Mold Assessor Cert# 01296)



Stephen A. Jaraczewski, NYS CMA #MA01552
President, BSChE, IH, MS Sustainability Management, Columbia University

SAJ/mw
Enclosures

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Detail Associates, Inc.
560 Sylvan Avenue / Suite 3065
Englewood Cliffs, NJ 07632
(201) 569-6708

Client: Palisades Park of Education
Date Sampled: November 14, 2021
Project No. NJ21-0410
Samples Submitted By: Stephen A Jaraczewski
Date Characterization Completed: November 15, 2021

CERTIFICATE OF ANALYSIS
Lindbergh School, 401 Glen Ave, Palisades Park, New Jersey

Air-O-Cell (Air Sample):

Sample #: PAL-1114-1A **Hallway By Room 101**
Total Count Airborne Spores: **587 CTS/m³**
Airborne Spore ID: (20 CTS/m³) Ascospores
 (100 CTS/m³) Aspergillus/Penicillium
 (210 CTS/m³) Basidiospores
 (250 CTS/m³) Cladosporium
 (7 CTS/m³) Myxomycetes

Other Airborne ID: None Detected

Sample #: PAL-1114-2A **Hallway By Room 107**
Total Count Airborne Spores: **630 CTS/m³**
Airborne Spore ID: (100 CTS/m³) Aspergillus/Penicillium
 (510 CTS/m³) Basidiospores
 (20 CTS/m³) Ganoderma

Other Airborne ID: None Detected

Sample #: PAL-1114-3A **Hallway By Room 104**
Total Count Airborne Spores: **1,160 CTS/m³**
Airborne Spore ID: (40 CTS/m³) Ascospores
 (70 CTS/m³) Aspergillus/Penicillium
 (770 CTS/m³) Basidiospores
 (70 CTS/m³) Cladosporium
 (10 CTS/m³) Unidentifiable Spores
 (200 CTS/m³) Trichoderma

Other Airborne ID: (7 CTS/m³) Pollen

Sample #: PAL-1114-4A **Background Outdoors**
Total Count Airborne Spores: **12,310 CTS/m³**
Airborne Spore ID: (200 CTS/m³) Ascospores
 (11,800 CTS/m³) Basidiospores
 (200 CTS/m³) Cladosporium
 (10 CTS/m³) Epicoccum
 (70 CTS/m³) Fusarium
 (20 CTS/m³) Ganoderma

Other Airborne ID: (7 CTS/m³) Pollen

Category: Count/Per Area Analyzed:

Low/Normal:	<250 Cfu/m ³
Moderate/Borderline:	250 – 1,000 Cfu/m ³
Active Growth:	> 1,000 Cfu/m ³
Very Active Growth:	> 5,000 Cfu/m ³

Analysis by
EMSL Analytical, Inc.
Methods MICRO-SOP-201, ASTM D7391



EXPANDED FUNGAL REPORT TM

Prepared Exclusively For

Detail Associates, Inc.
560 Sylvan Avenue
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Englewood Cliffs, NJ 07632
Phone:201-569-6708

Report Date: 11/15/2021
Project: NJ21-0410
EMSL Order: 032121012

AIHA LAP, LLC.

EMLAP #102581



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Proj: NJ21-0410

EMSL Order: 032121012
Customer ID: DETA50
Collected: 11/14/2021
Received: 11/14/2021
Analyzed: 11/15/2021

1. Description of Analysis

Analytical Laboratory

EMSL Analytical, Inc. (EMSL) is a nationwide, full service, analytical testing laboratory network providing Asbestos, Mold, Indoor Air Quality, Microbiological, Environmental, Chemical, Forensic, Materials, Industrial Hygiene and Mechanical Testing services since 1981. Ranked as the premier independently owned environmental testing laboratory in the nation, EMSL puts analytical quality as its top priority. This quality is recognized by many well-respected federal, state and private accrediting agencies, and assured by our high quality personnel, including many Ph.D. microbiologists and mycologists.

EMSL is an independent laboratory that performed the analysis of these samples. EMSL did not conduct the sampling or site investigation for this report. The samples referenced herein were analyzed under strict quality control procedures using state-of-the-art microbiological methods. The analytical methods used and the data presented are scientifically and legally defensible.

The laboratory data is provided in compliance with ISO-IEC 17025 guidelines for the particular test(s) requested, including any associated limitations for the methods employed. These data are intended for use by professionals having knowledge of the testing methods necessary to interpret them accurately.



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Air Samples - Spore traps:

Spore traps are commercially available sampling devices that capture airborne particles on an adhesive slide. Air is pulled through the device using a vacuum pump. Spores, as well as other airborne particles, are impacted on the collection adhesive. Using spore trap collection methods has inherent limitations. These collection methods are biased towards larger spore sizes.

The analysis for total spore counts is a direct microscopic examination and does not include culturing or growing the fungi. Therefore, the results include both viable and non-viable spores. Some fungal groups produce similar spore types that cannot be distinguished by direct microscopic examination alone (i.e., *Aspergillus/Penicillium*, and others). Other spore types may lack distinguishing features that aid in their identification. These types are grouped into larger categories such as Ascospores or Basidiospores.

Fungal spores are identified and grouped by morphological characteristics including color, shape, septation, ornamentation, and fruiting structures (if present) which are compared to published mycological identification keys and texts. EMSL reports provide spore counts per cubic meter of air to three significant figures. Please note that each spore category is reported to three significant figures. Due to rounding and the application of three significant figures the sum of the individual spore numbers may not equal the total spore count on the report. EMSL does not maintain responsibility for final volume concentrations (counts/m³) since this volume is provided by the field collector and can not be verified by EMSL.

EMSL analyzes spore traps using phase contrast microscopy. There is a wide choice of collection devices (Air-O-Cell, Micro-5, Burkhard, etc.) on the market. Differences in analytical method may exist between spore trap devices.

Spore trap results are reported in spores per cubic meter of air. Due to the other airborne particles collected with the spores, EMSL reports a background particle density. Background density is an indication of overall particulate matter present on the sample (i.e. dust in the air). High background concentrations may obscure spores such as the *Penicillium/Aspergillus* group. The rating system is from 1-5 with 1 = 1 - 25% of the background obscured by material, 2 = 26 - 50%, 3 = 51 - 75%, 4 = 76% - 99%, 5 = 100% or overloaded. A background rating of 4 or higher should be regarded as a minimum count since the actual concentrations may be higher than those reported. EMSL will not be held responsible for overloading of samples. Sample volumes are left to the discretion of the company or persons conducting the fieldwork.

Skin fragment density is the percentage of skin cells making up the total background material, 1 = 1 - 25%, 2 = 26 - 50%, 3 = 51 - 75%, 4 = 76-100%. Skin fragment density is considered an indication of the general cleanliness in the area sampled. It has been estimated that up to 90% of household dust consists of dead skin cells.

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2. Analytical Results

See attached data reports and charts.



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Spore Trap ASSESSMENT Report™ Air-O-Cell™ Analysis of Fungal Spores & Particulates (Methods MICRO-SOP-201, ASTM D7391)

	Particle Identification	Raw Count	(Count/m ³)	% of Total	Interpretation Guideline
032121012-0001	Alternaria (Ulocladium)	-	-	-	
	Ascospores	1	20	3.4	Acceptable
Client Sample ID PAL-1114-1A	Aspergillus/Penicillium	5	100	17	Slightly Elevated
	Basidiospores	10	210	35.8	Acceptable
Location HALLWAY BY ROOM 101	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
	Cladosporium	12	250	42.6	Slightly Elevated
	Curvularia	-	-	-	
Sample Volume (L) 150	Epicoccum	-	-	-	
	Fusarium++	-	-	-	
Sample Type Inside	Ganoderma	-	-	-	
	Myxomycetes++	1*	7*	1.2	Slightly Elevated
	Pithomyces++	-	-	-	
Comments	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Trichoderma	-	-	-	
	Total Fungi	29	587	100	Acceptable
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	
Analytical Sensitivity 600x: 21 counts/cubic meter		Skin Fragments: 1		1 to 4 (low to high)	
Analytical Sensitivity 300x *: 7* counts/cubic meter		Fibrous Particulate:		1 to 4 (low to high)	
		Background: 1		1 to 4 (low to high); 5 (overloaded)	

Acceptable Concentration at or below background
Slightly Elevated Concentration above background
ELEVATED Concentration 10X or more above background

Not commonly found growing indoors, spores likely come from outside.
 Spores reported to be able to cause allergies in individuals.
 Potential for mycotoxin production exists with these fungi.
 These fungi are considered water damage indicators.

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Initial report from: 11/15/2021 09:34:57

Aaron Patak, Microbiology Laboratory Director
or Other Approved Signatory

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-EMLAP Accredited #102561

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	Particle Identification	Raw Count	(Count/m ³)	% of Total	Interpretation Guideline
032121012-0002	Alternaria (Ulocladium)	-	-	-	
	Ascospores	-	-	-	
Client Sample ID	Aspergillus/Penicillium	6	100	15.9	Slightly Elevated
PAL-1114-2A	Basidiospores	25	510	81	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
Location	Cladosporium	-	-	-	
HALLWAY BY ROOM 107	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium++	-	-	-	
150	Ganoderma	1	20	3.2	Acceptable
	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
Inside	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Trichoderma	-	-	-	
	Total Fungi	32	630	100	Acceptable
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	
Analytical Sensitivity 600x: 21 counts/cubic meter		Skin Fragments: 1		1 to 4 (low to high)	
Analytical Sensitivity 300x *: 7* counts/cubic meter		Fibrous Particulate:		1 to 4 (low to high)	
		Background: 1		1 to 4 (low to high); 5 (overloaded)	

Acceptable Concentration at or below background
Slightly Elevated Concentration above background
ELEVATED Concentration 10X or more above background

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Spore Trap ASSESSMENT Report™ Air-O-Cell™ Analysis of Fungal Spores & Particulates (Methods MICRO-SOP-201, ASTM D7391)

	Particle Identification	Raw Count	(Count/m³)	% of Total	Interpretation Guideline
032121012-0003	Alternaria (Ulocladium)	-	-	-	
Client Sample ID PAL-1114-3A	Ascospores	2	40	3.4	Acceptable
	Aspergillus/Penicillium	3	70	6	Slightly Elevated
Location HALLWAY BY ROOM 104	Basidiospores	35	770	66.4	Acceptable
	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
	Cladosporium	3	70	6	Acceptable
Sample Volume (L) 150	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Type Inside	Fusarium++	-	-	-	
	Ganoderma	-	-	-	
	Myxomycetes++	-	-	-	
Comments	Pithomyces++	-	-	-	
	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	2*	10*	0.9	Slightly Elevated
	Zygomycetes	-	-	-	
	Trichoderma	7	200	17.2	Slightly Elevated
	Total Fungi	52	1160	100	Acceptable
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	1*	7*	-	Slightly Elevated
Analytical Sensitivity 600x: 22 counts/cubic meter		Analytical Sensitivity 300x *: 7* counts/cubic meter		Skin Fragments: 1	1 to 4 (low to high)
				Fibrous Particulate: 1	1 to 4 (low to high)
				Background: 1	1 to 4 (low to high); 5 (overloaded)

Acceptable Concentration at or below background
Slightly Elevated Concentration above background
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	Particle Identification	Raw Count	(Count/m ³)	% of Total	Interpretation Guideline
032121012-0004	Alternaria (Ulocladium)	-	-	-	
	Ascospores	9	200	1.6	
Client Sample ID	Aspergillus/Penicillium	-	-	-	
PAL-1114-4A	Basidiospores	532	11800	95.9	
	Bipolaris++	-	-	-	
	Chaetomium++	-	-	-	
Location	Cladosporium	9	200	1.6	
BACKGROUND	Curvularia	-	-	-	
OUTDOORS	Epicoccum	1	20	0.2	
Sample Volume (L)	Fusarium++	3	70	0.6	
150	Ganoderma	1	20	0.2	
	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
Background	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Trichoderma	-	-	-	
	Total Fungi	555	12310	100	
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	
Analytical Sensitivity 600x: 22 counts/cubic meter		Skin Fragments: 1		1 to 4 (low to high)	
Analytical Sensitivity 300x *: 7* counts/cubic meter		Fibrous Particulate: 1		1 to 4 (low to high)	
		Background: 2		1 to 4 (low to high); 5 (overloaded)	

- Not commonly found growing indoors, spores likely come from outside.
- Spores reported to be able to cause allergies in individuals.
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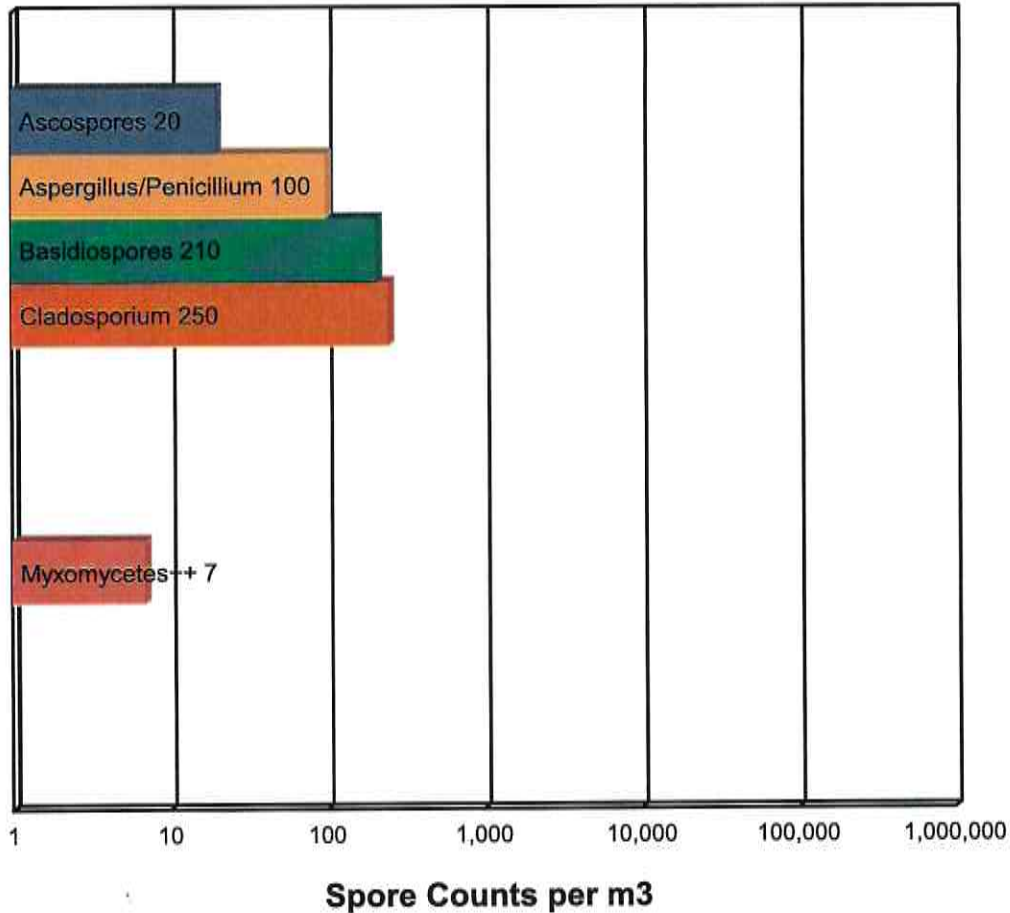
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Spore Trap Report: Total Counts

HALLWAY BY ROOM 101
PAL-1114-1A



Ascospores	Aspergillus/Penicillium	Basidiospores	Cladosporium
Epicoccum	Fusarium++	Ganoderma	Myxomycetes++
Trichoderma	Unidentifiable Spores		

* The chart is displayed using a logarithmic scale. Bar size is not directly proportional to the number of spores.

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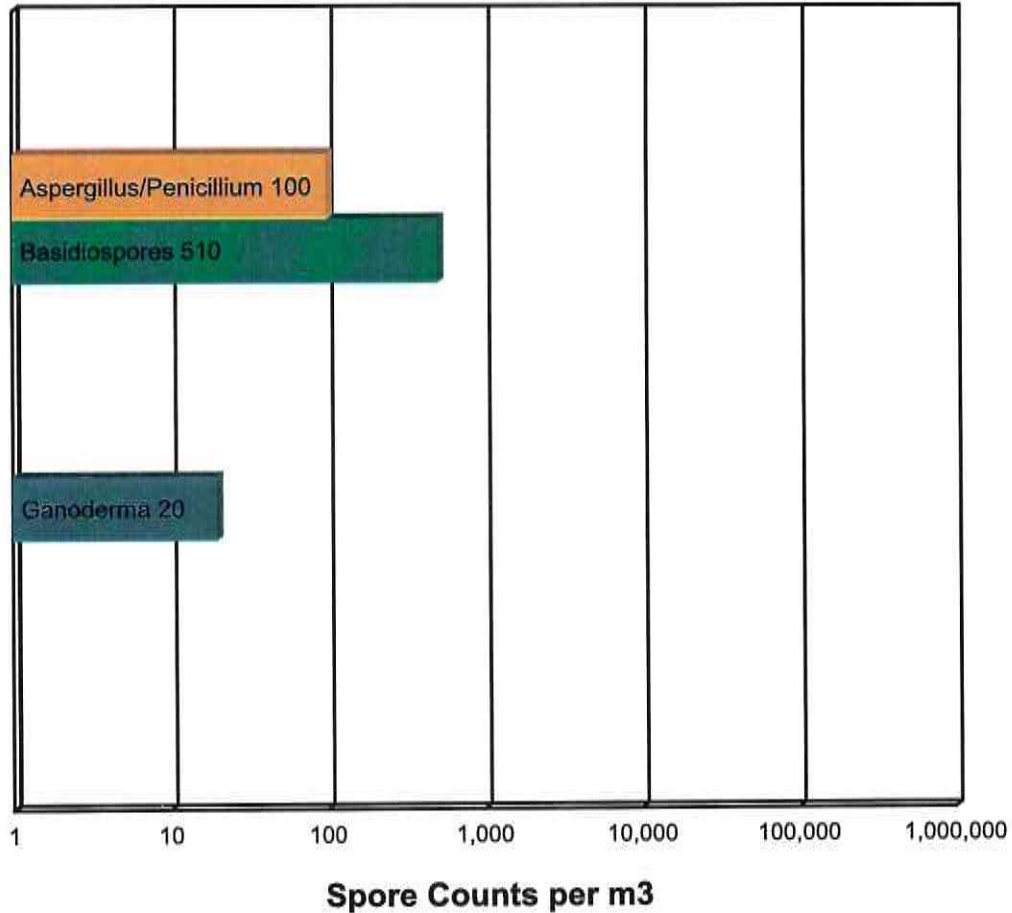
Attn: Stephen Jaraczewski
Detail Associates, Inc.
560 Sylvan Avenue
Suite 3065
Englewood Cliffs, NJ 07632

EMSL Order: 032121012
Customer ID: DETA50
Collected: 11/14/2021
Received: 11/14/2021
Analyzed: 11/15/2021

Proj: NJ21-0410

Spore Trap Report: Total Counts

HALLWAY BY ROOM 107
PAL-1114-2A



Ascospores	Aspergillus/Penicillium	Basidiospores	Cladosporium
Epicoccum	Fusarium++	Ganoderma	Myxomycetes++
Trichoderma	Unidentifiable Spores		

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Collected: 11/14/2021

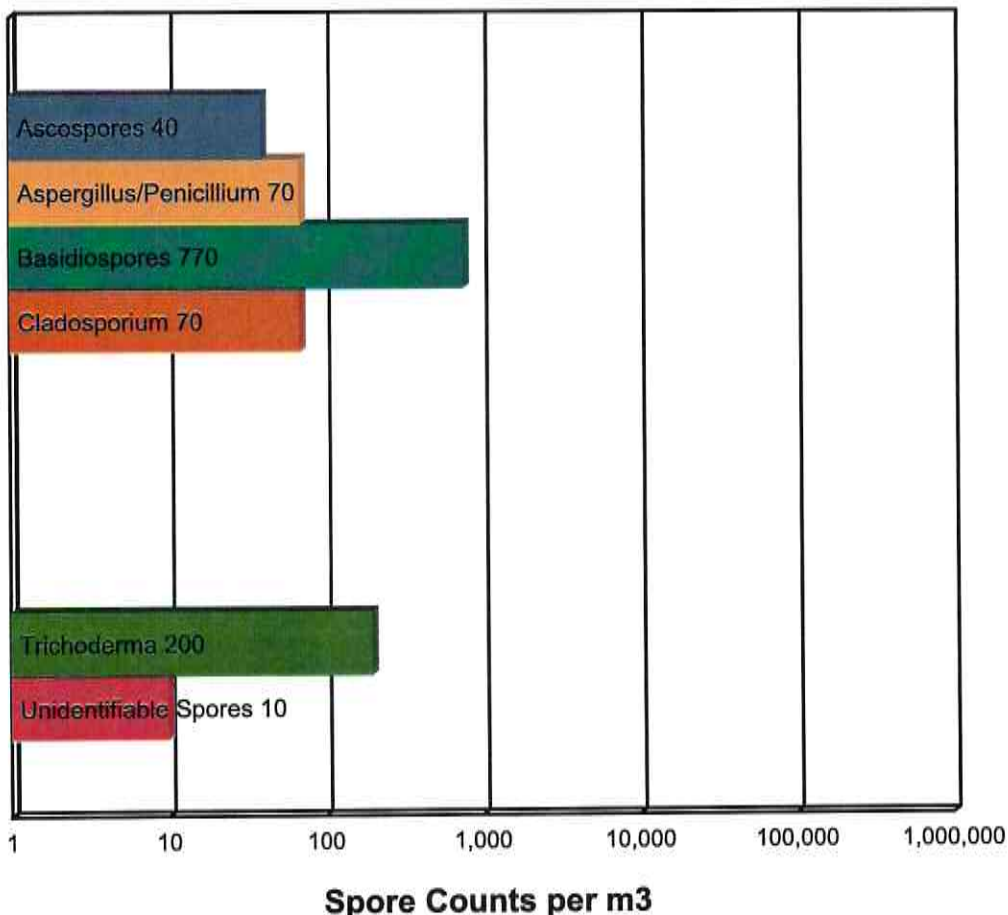
Received: 11/14/2021

Analyzed: 11/15/2021

Proj: NJ21-0410

Spore Trap Report: Total Counts

HALLWAY BY ROOM 104
PAL-1114-3A



Ascospores	Aspergillus/Penicillium	Basidiospores	Cladosporium
Epicoccum	Fusarium++	Ganoderma	Myxomycetes++
Trichoderma	Unidentifiable Spores		

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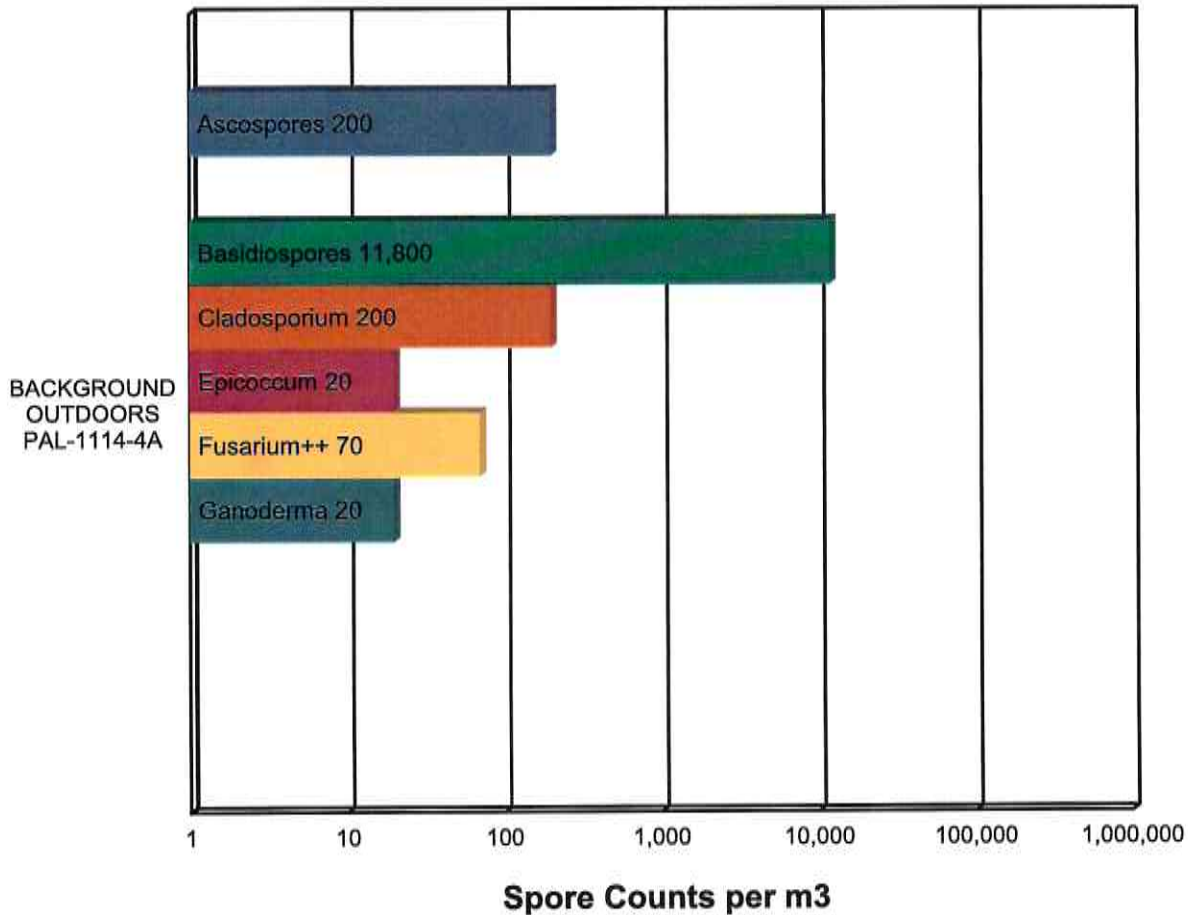
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Spore Trap Report: Total Counts



Ascospores	Aspergillus/Penicillium	Basidiospores	Cladosporium
Epicoccum	Fusarium++	Ganoderma	Myxomycetes++
Trichoderma	Unidentifiable Spores		

* The chart is displayed using a logarithmic scale. Bar size is not directly proportional to the number of spores.

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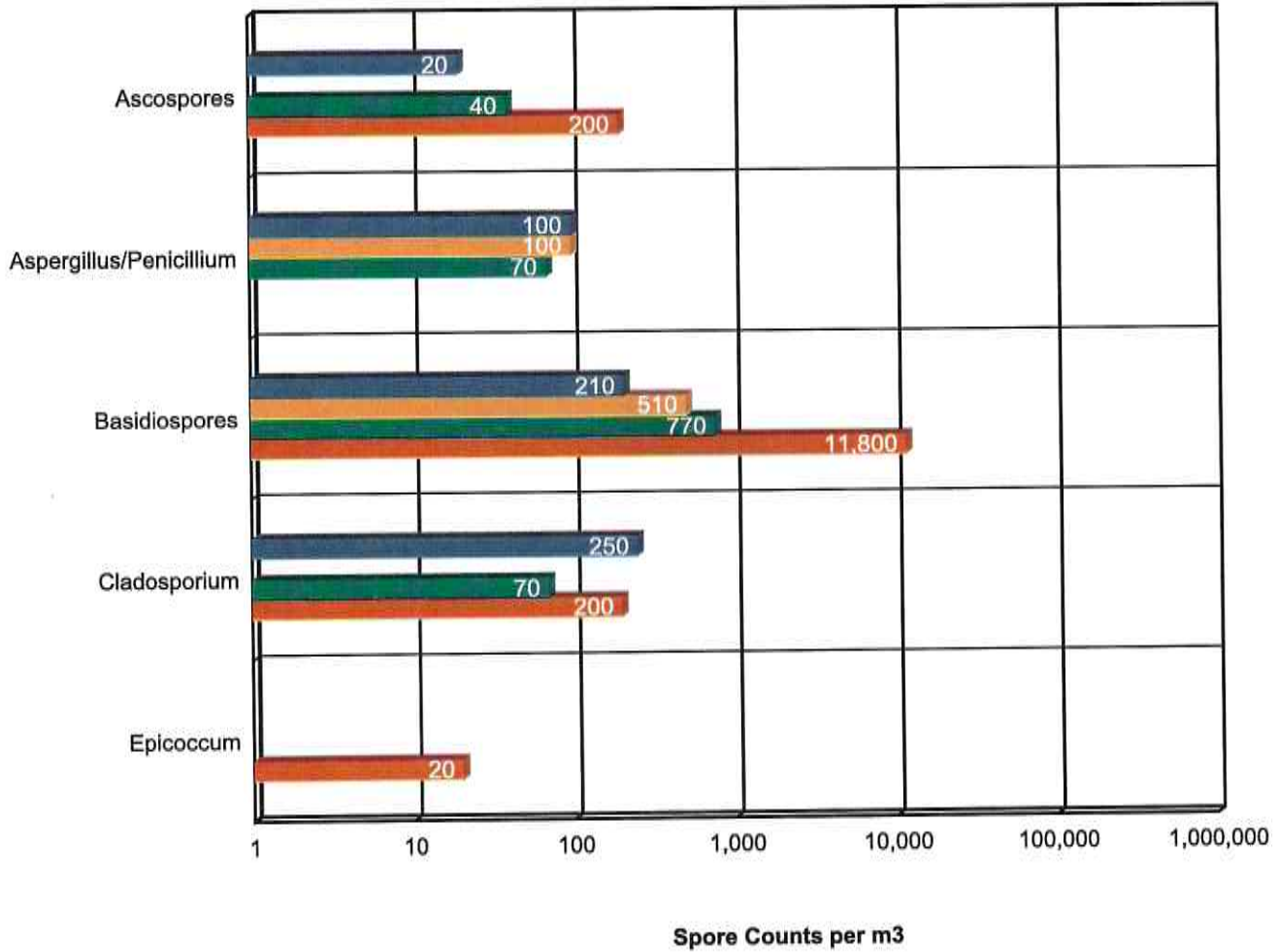
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Background Comparison Chart



■ PAL-1114-1A HALLWAY BY ROOM 101	■ PAL-1114-2A HALLWAY BY ROOM 107	■ PAL-1114-3A HALLWAY BY ROOM 104	■ PAL-1114-4A BACKGROUND OUTDOORS
---	---	--	--

* The chart is displayed using a logarithmic scale. The bar size is not directly proportional to the number of spores.

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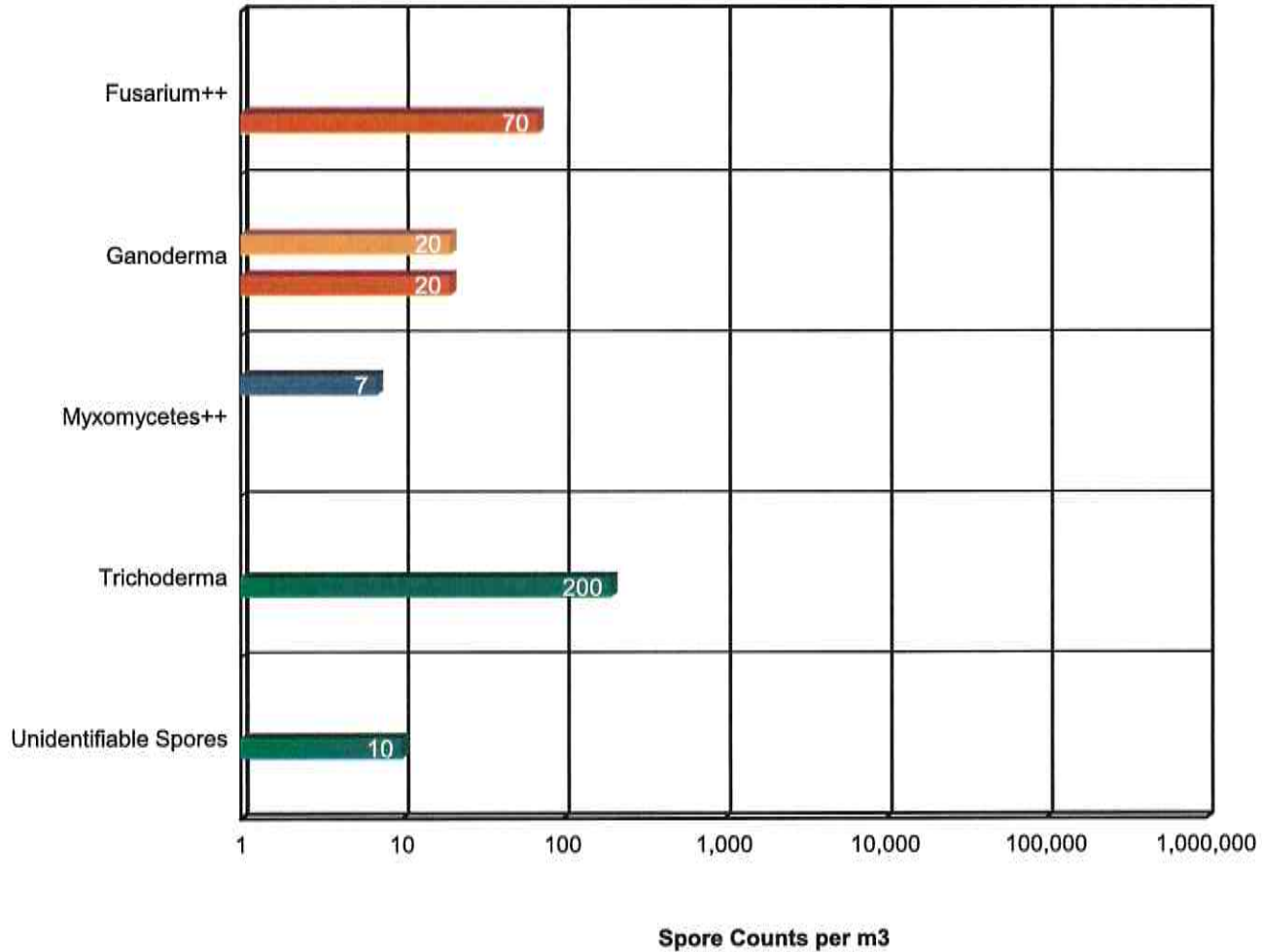
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Background Comparison Chart



PAL-1114-1A HALLWAY BY ROOM 101	PAL-1114-2A HALLWAY BY ROOM 107	PAL-1114-3A HALLWAY BY ROOM 104	PAL-1114-4A BACKGROUND OUTDOORS
---------------------------------------	---------------------------------------	---------------------------------------	---------------------------------------

* The chart is displayed using a logarithmic scale. The bar size is not directly proportional to the number of spores.



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3. Understanding the Results

EMSL Analytical, Inc. is an independent laboratory, providing unbiased and scientifically valid results. These data represent only a portion of an overall IAQ investigation. Visual information and environmental conditions measured during the site assessment (humidity, moisture readings, etc.) are crucial to any final interpretation of the results. Many factors impact the final results; therefore, result interpretation should only be conducted by qualified individuals. The American Conference of Governmental Industrial Hygienists (ACGIH) has published a good reference book covering sampling and data interpretation. It is entitled, Bioaerosols: Assessment and Control, 1999.

Fungal spores are found everywhere. Whether or not symptoms develop in people exposed to fungi depends on the nature of the fungal material (e.g., allergenic, toxic, or infectious), the exposure level, and the susceptibility of exposed persons. Susceptibility varies with the genetic predisposition (e.g., allergic reactions do not always occur in all individuals), age, pre-existing medical conditions (e.g., diabetes, cancer, or chronic lung conditions), use of immunosuppressive drugs, and concurrent exposures. These reasons make it difficult to identify dose/response relationships that are required to establish "safe" or "unsafe" levels (i.e., permissible exposure limits).

It is generally accepted in the industry that indoor fungal growth is undesirable and inappropriate, necessitating removal or other appropriate remedial actions. The New York City guidelines and EPA guidelines for mold remediation in schools and commercial buildings define the conditions warranting mold remediation. Always remember that water is the key. Preventing water damage or water condensation will prevent mold growth.

This report is not intended to provide medical advice or advice concerning the relative safety of an occupied space. Always consult an occupational or environmental health physician who has experience addressing indoor air contaminants if you have any questions.



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4. Glossary of Fungi

ASCOSPORES	
Natural Habitat	Everywhere in nature.
Suitable Substrates in the Indoor Environment	Depends on genus and species.
Water Activity	Depends on genus and species.
Mode of Dissemination	Forcible ejection or passive release and dissemination by wind or insects.
Allergic Potential	Depends on genus and species.
Potential or Opportunistic Pathogens	Depends on genus and species.
Industrial Uses	Depends on genus and species.
Potential Toxins Produced	Depends on genus and species.
Other Comments	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	
Natural Habitat	Plant debris ·Seed ·Cereal crops
Suitable Substrates in the Indoor Environment	Grows on a wide range of substrates indoors ·Prevalent in water damaged buildings ·Foods (blue mold on cereals, fruits, vegetables, dried foods) ·House dust ·Fabrics ·Leather ·Wallpaper ·Wallpaper glue
Water Activity	Aw=0.75-0.94
Mode of Dissemination	Wind ·Insects
Allergic Potential	Type I (hay fever, asthma) ·Type III (hypersensitivity)
Potential or Opportunistic Pathogens	Possible depending on the species.
Industrial Uses	Many depending on the species
Potential Toxins Produced	Possible depending on the species.
Other Comments	Spores of Aspergillus and Penicillium (including others such as Acremonium, Talaromyces, and Paecilomyces) are small and spherical with few distinguishing characteristics. They cannot be differentiated or speciated by non-viable impaction sampling methods. Some species with very small spores may be undercounted in samples with high background debris.

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BASIDIOSPORES

Natural Habitat	Forest floors. Lawns .Plants (saprobies or pathogens depending on genus)
Suitable Substrates in the Indoor Environment	Depends on genus. Wood products
Water Activity	Unknown.
Mode of Dissemination	Forcible ejection. Wind currents.
Allergic Potential	Type I allergies (hay fever, asthma) . Type III (hypersensitivity pneumonitis)
Potential or Opportunistic Pathogens	Depends on genus.
Industrial Uses	Edible mushrooms are used in the food industry.
Potential Toxins Produced	Amanitins. monomethyl-hydrazine. muscarine. Ibotenic acid. psilocybin.
Other Comments	Basidiospores are the result of sexual reproduction and formed on a structure called the basidium. Basidiospores belong to the members of the Phylum Basidiomycota, which includes mushrooms, shelf fungi, rusts, and smuts.

CLADOSPORIUM

Natural Habitat	Dead plant matter. Straw. Soil. Woody plants
Suitable Substrates in the Indoor Environment	Fiberglass duct liner. Paint. Textiles. Found in high concentration in water-damaged building materials.
Water Activity	Aw 0.84-0.88
Mode of Dissemination	Air
Allergic Potential	Type I (asthma and hay fever).
Potential or Opportunistic Pathogens	Edema. keratitis. onychomycosis. pulmonary infections. Sinusitis.
Industrial Uses	Produces 10 antigens.
Potential Toxins Produced	Cladospurin and Emodin.

EPICOCCUM

Natural Habitat	A worldwide saprophytic fungi, being isolated from dead plant material and soil.
Suitable Substrates in the Indoor Environment	Paper, textiles
Water Activity	0.86-0.90
Mode of Dissemination	Wind
Allergic Potential	Hay fever, asthma
Potential or Opportunistic Pathogens	Unknown

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FUSARIUM++

Natural Habitat	Soil. Plant pathogen causing root rot, stem rot, and wilt of many ornamental and crop plants. Genera with like spores include Fusarium, Albonectria, Atractium, Bisifusarium, Corinectria, Cosmospora, Cosmosporella, Cyanonectria, Dialonectria, Fusicolla, Geejayessia, Ilyonectria, Luteonectria, Macroconia, Mariannaea, Microcera, Neocosmospora, Neonectria, Nothofusarium, Pseudofusicolla Rectifusarium, Rugonectria, Scolecofusarium, Setofusarium, Stylonectria, Thelonectria, and Tumenectria.
Suitable Substrates in the Indoor Environment	Often found in humidifiers. Wet, cellulose-based building materials
Water Activity	Aw=0.86-0.91
Mode of Dissemination	Insects. Water droplets, rain. Wind when spores become dry.
Allergic Potential	Type I allergies (hay fever, asthma).
Potential or Opportunistic Pathogens	Esophageal cancer is believed to happen after consumption of F. moniliforme infected corn. Keratitis. Endophthalmitis. Onychomycosis. Cutaneous infections. Mycetoma. Sinusitis. Pulmonary infections. Endocarditis. Peritonitis. Central venous catheter infections. Septic arthritis. Neurological disease in horses after consumption of F. moniliforme infected corn. Respiratory disease in pigs after consumption of F. moniliforme infected corn.
Industrial Uses	Biological Weapon.
Potential Toxins Produced	Trichothecenes. Zearalenone. Fumonisin.
Other Comments	Major plant pathogen.
Reference	Atlas of Moulds in Europe causing respiratory Allergy, Foundation for Allergy Research in Europe, Edited by Knud Wilken-Jensen and Suzanne Gravesen, ASK Publishing, Denmark, 1984.

GANODERMA

Natural Habitat	Grows on conifers and hardwoods worldwide, causing white rot, root rot, and stem rot.
Suitable Substrates in the Indoor Environment	Unknown.
Water Activity	Unknown.
Mode of Dissemination	Wind.
Allergic Potential	Ganoderma species are known to cause allergies in people on a worldwide scale.
Potential or Opportunistic Pathogens	Unknown.
Industrial Uses	Biopulping of wood for the paper industry. Potential medicinal use due to: 1. Inhibition of Ras dependent cell transformation, 2. Antifibrotic activity, 3. Immunomodulating activity, 4. Free-radicle scavenging
Potential Toxins Produced	Unknown.
Other Comments	Used in traditional Chinese medicine as an herbal supplement. It is also known as a "shelf fungus" because the fruiting body forms a stalk-less shelf on the sides of trees and logs. It is sometimes called "artists conk" because when you scratch the white pores of the fruiting body, the white rubs away and exposes the brown hyphae underneath. Thus, pictures can be produced on the fruiting body.
Reference	References: Craig, R.L., Levetin, E. 2000. Multi-year study of Ganoderma aerobiology. Aerobiologia 16: 75-81. http://www.pfc.forestry.ca/diseases/CTD/Group/Heart/heart6_e.html

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MYXOMYCETES++

Natural Habitat	Decaying logs, Dead leaves , Dung , Lawns , Mulched flower beds, Lawns
Suitable Substrates in the Indoor Environment	Rotting lumber
Free moisture required for mold growth	Unknown
Mode of Dissemination	Insects, Water, Wind
Allergic Potential	Type I
Potential or Opportunistic Pathogens	Unknown
Industrial Uses	
Other Comments	Includes Myxomycetes, Smut, Rust, and Periconia.

TRICHODERMA

Natural Habitat	A worldwide saprophytic fungi, being isolated from dead plant material and soil.
Suitable Substrates in the Indoor Environment	Paper, textiles, wet wood
Water Activity	Unknown
Mode of Dissemination	Insects, water splash, wind
Allergic Potential	Hay fever, asthma, hypersensitivities
Potential or Opportunistic Pathogens	Occasionally associated with disease in immunocompromised people.

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5. References and Informational Links

Books

- Bioaerosols: Assessment and Control. Janet Macher, Ed., American Conference of Governmental Industrial Hygienists, Cincinnati, OH 1999.
- Exposure Guidelines for Residential Indoor Air Quality. Environmental Health Directorate, Health Protection Branch, Health Canada, Ottawa, Ontario, 1989.
- Fungal Contamination in Public Buildings: Health Effects and Investigation Methods. Health Canada, Ottawa, Ontario, 2004.
- IICRC: S500 Standard and Reference Guide for Professional Water Damage Restoration. 3rd Edition, Institute of Inspection, Cleaning, and Restoration Certification, Vancouver, WA, 2006
- IICRC: S520 Standard and Reference Guide for Professional Mold Remediation. 1st Edition, Institute of Inspection, Cleaning, and Restoration Certification, Vancouver, WA, 2004
- Field Guide for the Determination of Biological Contaminants in Environmental Samples. 2nd Edition, American Industrial Hygiene Association, 2005.

Consumer Links

Read the full text of AIHA's "The Facts About Mold" consumer brochure.

<http://www.aiha.org/get-involved/VolunteerGroups/Documents/BiosafetyVG-FactsAbout%20MoldDecember2011.pdf>

The Occupational Safety and Health Administration (OSHA)

<http://www.osha.gov/SLTC/molds/index.html>

CDC Mold Facts

<http://www.cdc.gov/mold/faqs.htm>

CDC Stachybotrys - Questions and answers on Stachybotrys chartarum and other molds

<http://www.cdc.gov/mold/stachy.htm>

IOM, NAS: Clearing the Air: Asthma and Indoor Air Exposures

<https://www.epa.gov/indoor-air-quality-iaq/should-you-have-air-ducts-your-home-cleaned>

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National Library of Medicine-Mold website

<http://www.nlm.nih.gov/medlineplus/molds.html>

California Department of Health Services (CADOHS)

<https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/Mold.aspx>

Minnesota Department of Health

<http://www.health.state.mn.us/divs/eh/indoorair/mold/index.html>

New York City Department of Health and Mental Hygiene

<https://www1.nyc.gov/site/doh/health/health-topics/mold.page>

H.R.: The United States Toxic Mold Safety and Protection Act

EPA

"Should You Have the Air Ducts in Your Home Cleaned?"

<http://www.epa.gov/iaq/pubs/airduct.html>

General information about molds and actions that can be taken to clean up or prevent a mold problem.

<http://www.epa.gov/asthma/molds.html>

"A Brief Guide to Mold, Moisture, and Your Home" - Includes basic information on mold, cleanup guidelines, and moisture and mold prevention

<http://www.epa.gov/mold/moldguide.html>

"Mold Remediation in Schools and Commercial Buildings" - Information on remediation in schools and commercial property, references for potential mold and moisture remediators.

<https://www.epa.gov/mold/mold-remediation-schools-and-commercial-buildings-guide>

FEMA

"Homes That Were Flooded May Harbor Mold Problems" - Information and tips for cleaning mold.

<http://www.fema.gov/news-release/homes-were-flooded-may-harbor-mold-problems>

"Dealing With Mold & Mildew in Your Flood Damaged Home.

http://www.fema.gov/pdf/rebuild/recover/fema_mold_brochure_english.pdf



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6. Important Terms, Conditions, and Limitations

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B. Change Orders and Cancellation

All changes in the scope of work or turnaround time requested by the client after sample acceptance must be made in writing and confirmed in writing by EMSL. If requested changes result in a change in cost the client must accept payment responsibility. In the event work is cancelled by a client, EMSL will complete work in progress and invoice for work completed to the point of cancellation notice. EMSL is not responsible for holding times that are exceeded due to such changes.

C. Warranty

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of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder.

E. Indemnification

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