



# EXPANDED FUNGAL REPORT <sup>TM</sup>

## Prepared Exclusively For

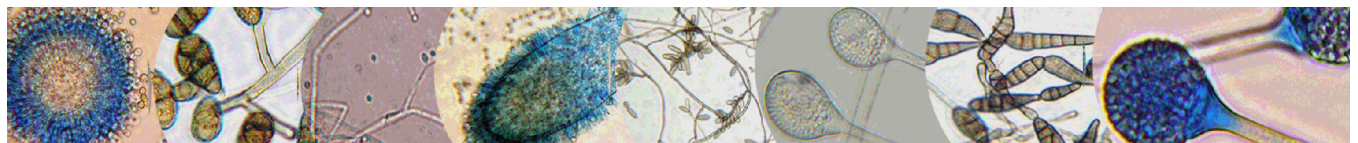
Southern Brothers Inspections

PO Box 3555  
Jacksonville, FL 32206  
Phone:904-747-0888

**Report Date:** 6/12/2024  
**Project:** 10363 Bridge Street , White Springs, FI 32096  
06/11/2024/10363 Bridge Street  
**EMSL Order:** 932403668

**A2LA Accredited**

Certificate #2845.28



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## EMSL Analytical, Inc.

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**Attn:** Tanner Yirka  
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Jacksonville, FL 32206

EMSL Order: 932403668  
Customer ID: SBRT75  
Collected: 6/11/2024 - 6/12/2024  
Received: 6/12/2024  
Analyzed: 6/12/2024

**Proj:** 10363 Bridge Street , White Springs, Fl 32096 06/11/2024/10363 Bridge Street

### 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/m<sup>3</sup>) 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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### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	932403668-0001			932403668-0002			932403668-0003		
Client Sample ID:	1 - Exterior Control - 1384			2 - Front Entry - 1387			3 - Hallway Control - 0607		
Volume (L):	75			75			75		
Sample Location:	Exterior Control			Front Entry			Interior Hall		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria (Ulocladium)	14	620	4.3	-	-	-	-	-	-
Ascospores	10	440	3.1	-	-	-	1	40	3.4
Aspergillus/Penicillium++	26	1100	7.7	-	-	-	5	200	16.8
Basidiospores	102	4510	31.4	1*	10*	4	12	530	44.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	133	5880	40.9	4	200	80	6	300	25.2
Curvularia	11	490	3.4	-	-	-	1	40	3.4
Epicoccum	8	400	2.8	-	-	-	1*	10*	0.8
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	2	90	0.6	-	-	-	-	-	-
Myxomycetes++	7	300	2.1	-	-	-	2*	30*	2.5
Pithomyces++	4	200	1.4	-	-	-	-	-	-
Rust	5*	70*	0.5	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	1	40	3.4
Nigrospora	2	90	0.6	1	40	16	-	-	-
Spegazzinia	2	90	0.6	-	-	-	-	-	-
Torula++	2	90	0.6	-	-	-	-	-	-
<b>Total Fungi</b>	<b>328</b>	<b>14370</b>	<b>100</b>	<b>6</b>	<b>250</b>	<b>100</b>	<b>29</b>	<b>1190</b>	<b>100</b>
Hypchal Fragment	18	800	-	-	-	-	1*	10*	-
Insect Fragment	1	40	-	-	-	-	1	40	-
Pollen	4	200	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	1	-

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

No discernable field blank was submitted with this group of samples.

Gerald Iannuzzi, Laboratory Manager  
or Other Approved Signatory

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Initial report from: 06/12/2024 17:19:51

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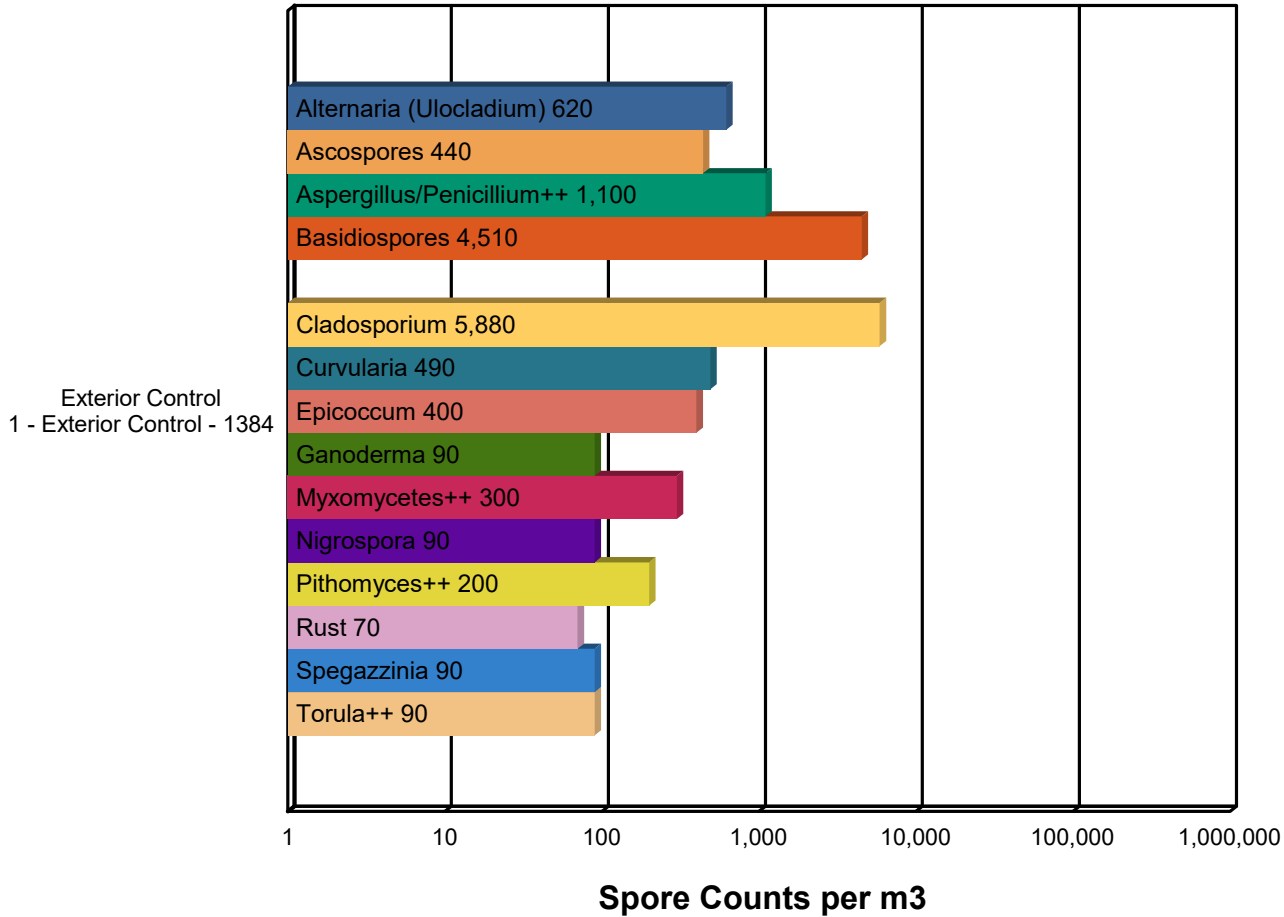
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**Proj:** 10363 Bridge Street , White Springs, Fl 32096 06/11/2024/10363 Bridge Street

## Spore Trap Report: Total Counts



Alternaria (Ulocladium)	Ascospores	Aspergillus/Penicillium++
Basidiospores	Cercospora++	Cladosporium
Curvularia	Epicoccum	Ganoderma
Myxomycetes++	Nigrospora	Pithomyces++
Rust	Spegazzinia	Torula++

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

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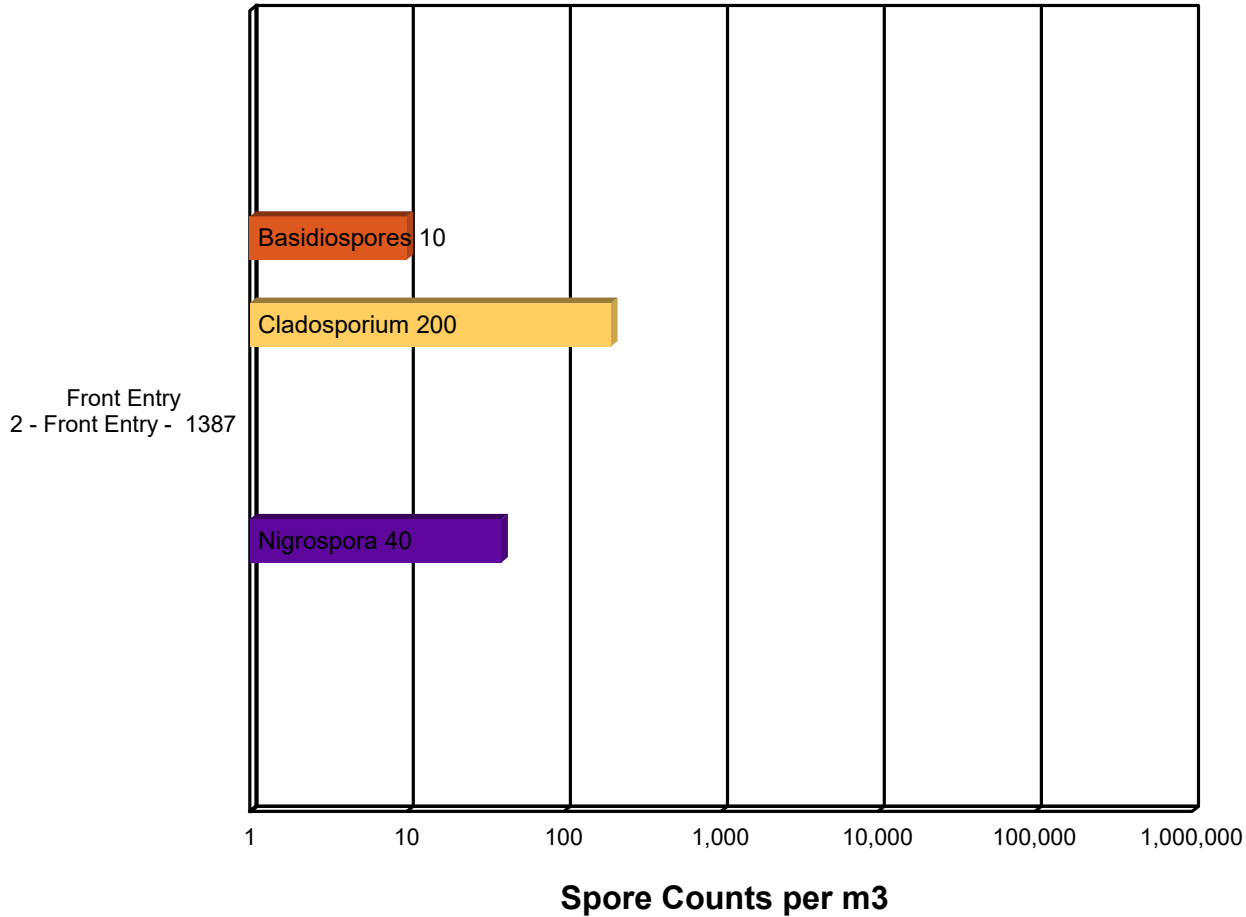
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■ Basidiospores	■ Cercospora++	■ Cladosporium
■ Curvularia	■ Epicoccum	■ Ganoderma
■ Myxomycetes++	■ Nigrospora	■ Pithomyces++
■ Rust	■ Spegazzinia	■ Torula++

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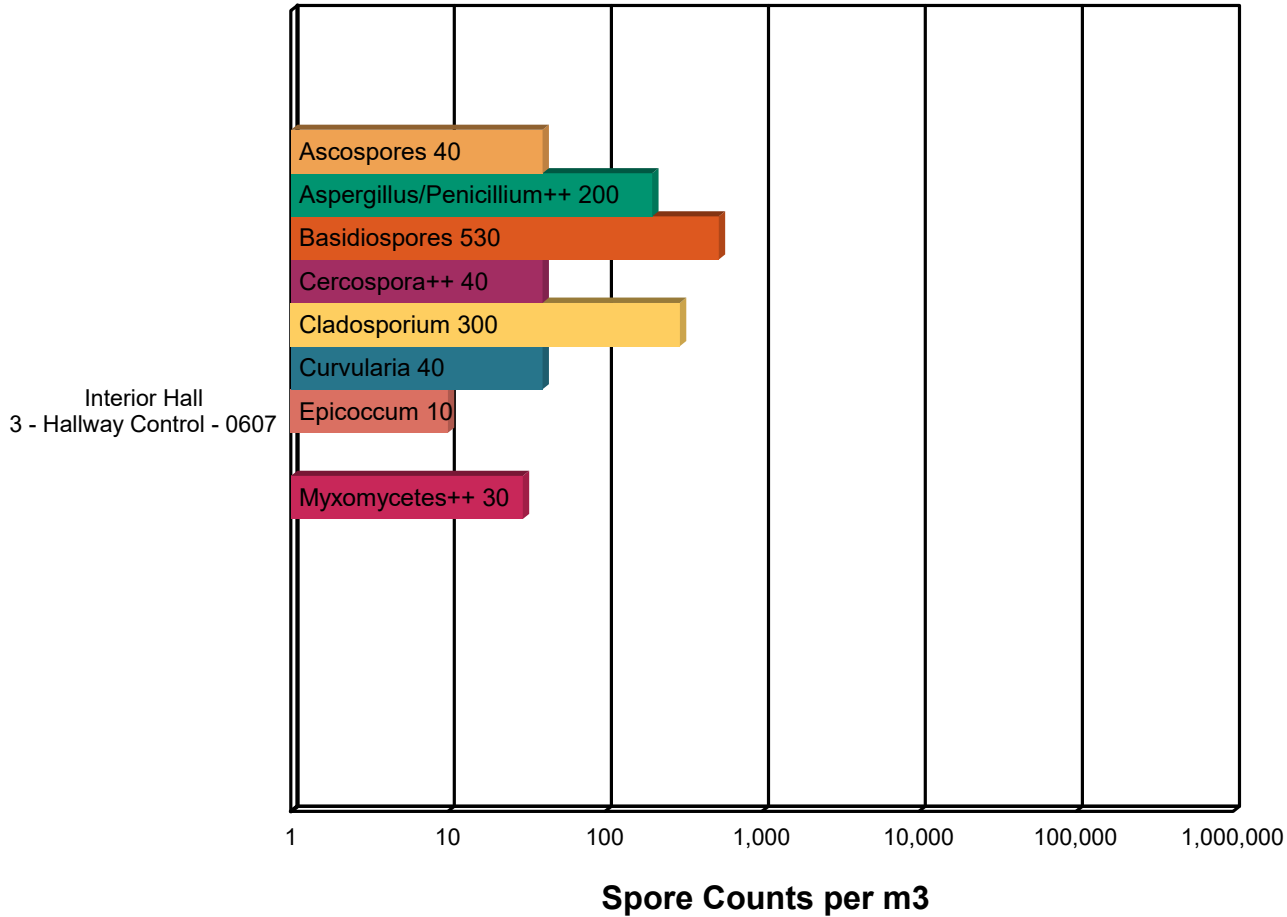
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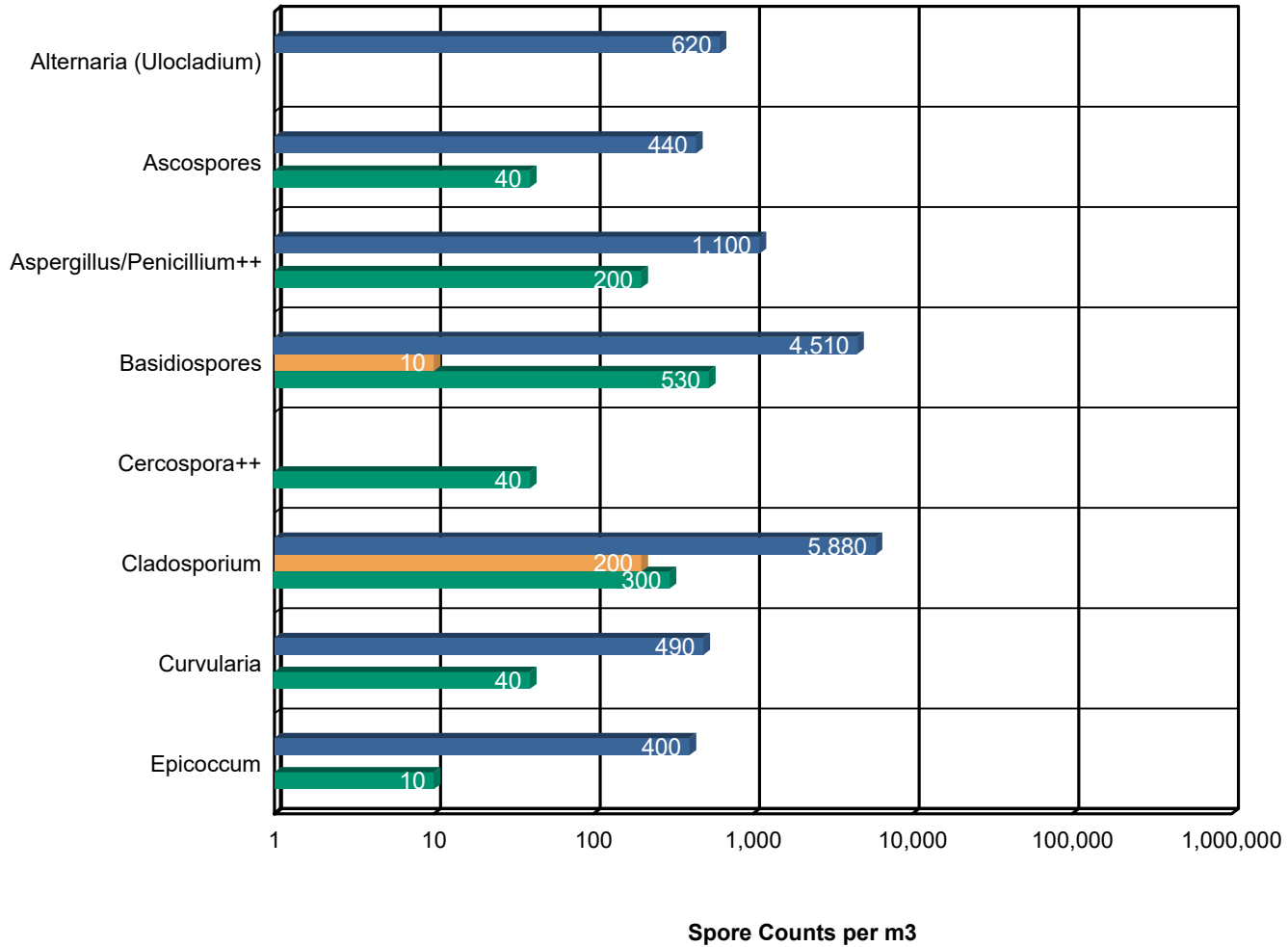
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## Background Comparison Chart



■ 1 - Exterior Control - 1384 Exterior Control    
 ■ 2 - Front Entry - 1387 Front Entry    
 ■ 3 - Hallway Control - 0607 Interior Hall

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

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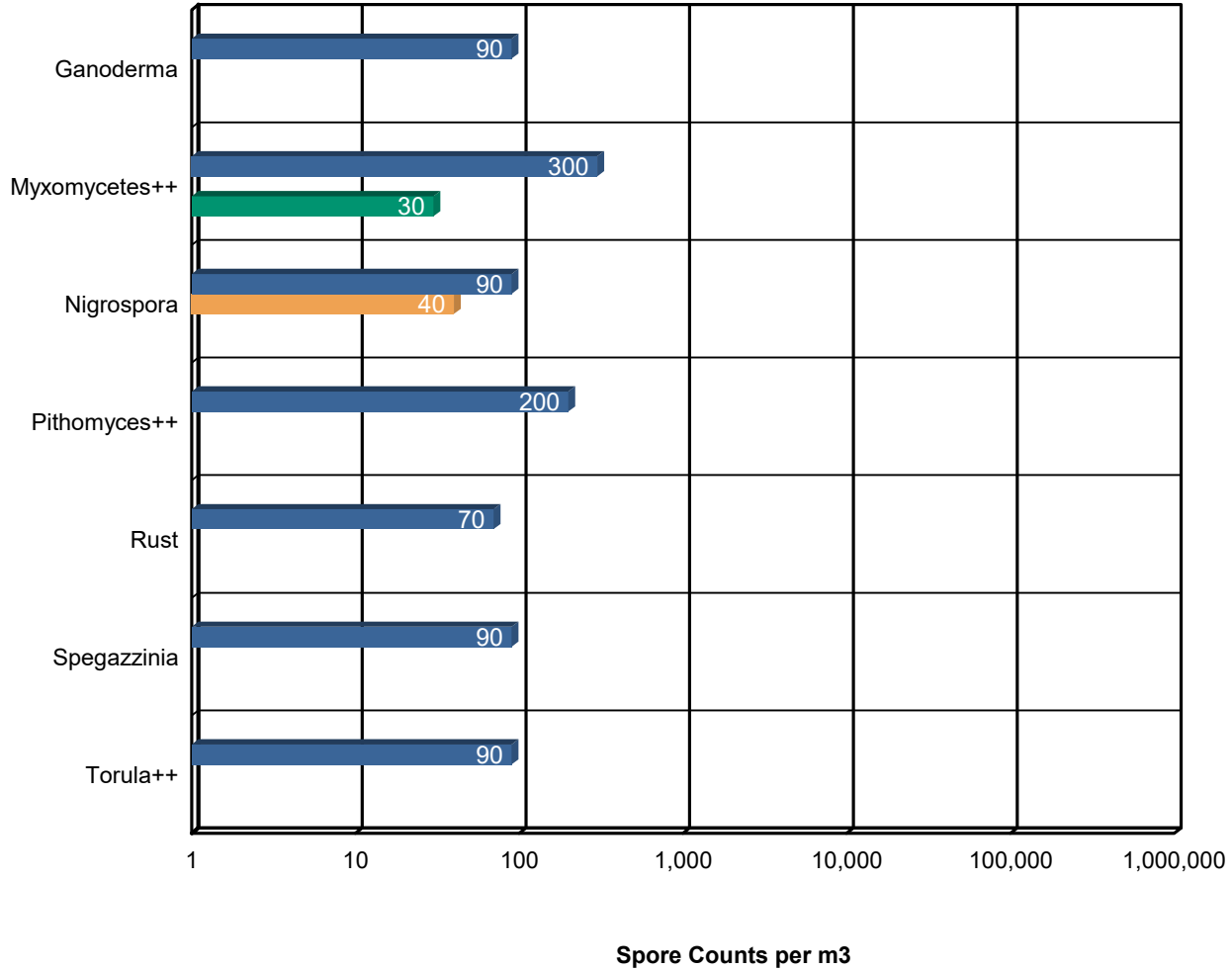
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## Background Comparison Chart



■ 1 - Exterior Control - 1384	■ 2 - Front Entry - 1387	■ 3 - Hallway Control - 0607
-------------------------------	--------------------------	------------------------------

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Surface Contamination ASSESSMENTReport <sup>TM</sup> Bulk Samples Based on Direct Microscopic Analysis MICRO-SOP-200

Sample Information	Sample Location	Surface Contamination Rating (Referenced in IICRC S520)	Recommended Remedial Action (Referenced in IICRC S520)
Lab Sample #: 932403668-0004 Client Sample ID: 4 - Swab	Front Entry	Condition 3: Actual fungal growth	 Remediate to a Condition 1 status

### Definitions (from IICRC S520 Standard)

-  Condition 1 (normal fungal ecology): an indoor environment that may have settled spores, fragments, or traces of actual growth.
-  Condition 2 (settled spores): an indoor environment which is primarily contaminated with settled spores that were dispersed directly or indirectly from a Condition 3 area, and which may have traces of actual growth.
-  Condition 3 (actual growth): an indoor environment contaminated with the presence of actual mold growth and associated spores. Actual growth includes growth that is active or dormant, visible or hidden.

Data provided in this report are intended to facilitate the assessment process performed by an Indoor Environmental Professional (IEP). The IEP is responsible for final data interpretation and remediation conclusions based on their assessment which may include information on the building history, an inspection, sampling, and laboratory data. Post-remediation verification testing recommended after any remediation.



Gerald Iannuzzi, Laboratory Manager  
or Other Approved Signatory

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## Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Bulk Samples (EMSL Method MICRO-SOP-200)

<b>Lab Sample Number:</b>	932403668-0004				
<b>Client Sample ID:</b>	4 - Swab				
<b>Sample Location:</b>	Front Entry				
<b>Spore Types</b>	Category				
Alternaria (Ulocladium)	Rare				
Ascospores	-				
Aspergillus/Penicillium++	-				
Basidiospores	-				
Bipolaris++	-				
Chaetomium++	Low				
Cladosporium	Low				
Curvularia	-				
Epicoccum	-				
Fusarium++	-				
Ganoderma	-				
Myxomycetes++	-				
Pithomyces++	-				
Rust	-				
Scopulariopsis/Microascus	-				
Stachybotrys/Memnoniella	-				
Unidentifiable Spores	-				
Zygomycetes	-				
Aspergillus	*High*				
Scolecobasidium++	Medium				
Hyphal Fragment	-				
Insect Fragment	Medium				
Pollen	Rare				
Fibrous Particulate	-				
Dust mites	Rare				

Category: Count/per area analyzed  
Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000  
High background particulate: A high level of background particulate can obscure fungal matter and lead to underestimation or failure to detect  
++ = Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.  
\* = Sample contains fruiting structures and/or hyphae associated with the spores.  
- = Not detected.

Gerald Iannuzzi, Laboratory Manager  
or Other Approved Signatory

No discernable field blank was submitted with this group of samples.

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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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**EMSL Order:** 932403668  
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## 4. Glossary of Fungi

<b>ALTERNARIA(ULOCLADIUM)</b>	
<b>Natural Habitat</b>	Common saprobe and pathogen of plants. Typically found on plant tissue, decaying wood, and foods. Soil . Air outdoors.
<b>Suitable Substrates in the Indoor Environment</b>	Indoors near condensation (window frames, showers), House dust (in carpets, and air). Also colonizes building supplies, computer disks, cosmetics, leather, optical instruments, paper, sewage, stone monuments, textiles, wood pulp, and jet fuel
<b>Water Activity</b>	Aw =0.85-0.88 (water damage indicator)
<b>Mode of Dissemination</b>	Wind
<b>Allergic Potential</b>	Type I allergies (hay fever, asthma), Type III (hypersensitivity pneumonitis)
<b>Potential or Opportunistic Pathogens</b>	Phaeohyphomycosis {causing cystic granulomas in the skin and subcutaneous tissue}. In immunocompetent patients, Alternaria colonizes the paranasal sinuses, leading to chronic hypertrophic sinusitis
<b>Industrial Uses</b>	Biocontrol of weed plants ·Biocontrol fungal plant pathogens.
<b>Potential Toxins Produced</b>	Alternariol (AOH) . Alternariol monomethylether (AME). Tenuazonic acid (TeA). Altenuene (ALT). Altertoxins (ATX)
<b>Other Comments</b>	Many species of Ulocladium have been renamed as Alternaria. 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
<b>References</b>	Alternaria redefined. J. Woudenberg et al., Studies in Mycology. Volume 75, June 2013, Pages 171-212

<b>ASCOSPORES</b>	
<b>Natural Habitat</b>	Everywhere in nature.
<b>Suitable Substrates in the Indoor Environment</b>	Depends on genus and species.
<b>Water Activity</b>	Depends on genus and species.
<b>Mode of Dissemination</b>	Forcible ejection or passive release and dissemination by wind or insects.
<b>Allergic Potential</b>	Depends on genus and species.
<b>Potential or Opportunistic Pathogens</b>	Depends on genus and species.
<b>Industrial Uses</b>	Depends on genus and species.
<b>Potential Toxins Produced</b>	Depends on genus and species.
<b>Other Comments</b>	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.

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## ASPERGILLUS

<b>Natural Habitat</b>	Soil and Plant debris.
<b>Suitable Substrates in the Indoor Environment</b>	Grows on a wide range of substrates indoors. Prevalent in water damaged buildings
<b>Water Activity</b>	Aw=0.75-0.94
<b>Mode of Dissemination</b>	Wind
<b>Allergic Potential</b>	Allergic bronchopulmonary aspergillosis (ABPA) which is common in asthmatic and cystic fibrosis patients. Aspergillus sinusitis. Invasive aspergillosis in immunocompromised patients
<b>Potential or Opportunistic Pathogens</b>	Aspergilloma and chronic pulmonary aspergillosis in people with lung disease.
<b>Industrial Uses</b>	A. sojae is used for fermented food and beverages in Asia. A. oryzae is used in soy sauce production. A. terreus produces mevinoлин which is able reduce blood cholesterol. A. niger produces enzymes used to make some breads and beers and is also used in plastic decomposition. A. niger and A. ochraceus are used in cortisone production
<b>Potential Toxins Produced</b>	3-Nitropropionic acid, 5-metoxystermatocystin, Aflatoxin B1, B2, Aflatoxin G1, G2, Aflatoxin M1, M2, Aflatoxin P1, Aflatoxin Q1, Aflatoxins, Aflatrem (alkaloid), Aflatrem (indole alkaloid), Aflavinin, Ascalidol, Aspergillic acid, Aspergillomasmin, Aspertoxin, Asteltoxin, Austamid, Austdiol, Austins, Austocystins, Avenaciolide, Brevianamide A, Candidulin, Citreoviridin,, Citrinin, Clavatul, Cyclopiazonic acid, Cyclopiazonic acid, Cytochalasin E, Emodin, Fumagillin, Fumigaclavine A, Fumigatin, Fumitremorgens, Fumitremorgin A, Gliotoxin, Griseofulvin, Helvolic acid, Kojic acid, Kotanin, Malformins, Naphtopyrones, Neoaspergillic acid, Nidulin, Nidulotoxin, Nigragillin, Ochratoxin A, Ochratoxin B, Ochratoxin C, Ochratoxins β, Ochratoxins α, Ochratoxins (A,B,C.α, β.), Orlandin, Oryzacidin, Paspaline, Patulin, Penicillic acid, Phthioic acid, Secalonic acid A, B, D and F, Sphingofungins, Spinulosin, Sterigmatocystin, Terphenyllin, Terredional, Terreic acid, Terrein, Terretionin, Terretionin, Territrem A, Tryptoquivalines, Verruculogen, Versicolorin A, Viomellein, Viriditoxin, Xanthocillin, Xanthomegnin, β-nitropropionic acid.
<b>Other Comments</b>	It is the second most common opportunistic pathogen following Candida.

## ASPERGILLUS/PENICILLIUM++

<b>Natural Habitat</b>	Plant debris ·Seed ·Cereal crop
<b>Suitable Substrates in the Indoor Environment</b>	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
<b>Allergic Potential</b>	Type I (hay fever, asthma) ·Type III (hypersensitivity)
<b>Potential Opportunist or Pathogen</b>	Possible depending on the species.
<b>Potential Toxins Produced</b>	Possible depending on the species.
<b>Free moisture required for mold growth</b>	Aw=0.75-0.94
<b>Mode of Dissemination</b>	Wind ·Insects
<b>Industrial Uses</b>	Many depending on the species
<b>Other comments</b>	Spores of Aspergillus and Penicillium (including others such as Geosmithia, Goidanichella, Nalanthamala, Rasamsonia, Samsoniella, and Talaromyces) are small and spherical with few distinguishing characteristics. They cannot be differentiated 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

<b>Natural Habitat</b>	Forest floors. Lawns .Plants (saprobes or pathogens depending on genus)
<b>Suitable Substrates in the Indoor Environment</b>	Depends on genus. Wood products
<b>Water Activity</b>	Unknown.
<b>Mode of Dissemination</b>	Forcible ejection. Wind currents.
<b>Allergic Potential</b>	Type I allergies (hay fever, asthma) . Type III (hypersensitivity pneumonitis)
<b>Potential or Opportunistic Pathogens</b>	Depends on genus.
<b>Industrial Uses</b>	Edible mushrooms are used in the food industry.
<b>Potential Toxins Produced</b>	Amanitins. monomethyl-hydrazine. muscarine. ibotenic acid. psilocybin.
<b>Other Comments</b>	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.

## CERCOSPORA++

<b>Natural Habitat</b>	Parasite on higher plants, commonly causes leaf spot diseases.
<b>Suitable Substrates in the Indoor Environment</b>	Unknown
<b>Water Activity</b>	Moderate –High humidity
<b>Mode of Dissemination</b>	Irrigation water, Insects, Rain Wind
<b>Allergic Potential</b>	Unknown
<b>Potential or Opportunistic Pathogens</b>	Unknown
<b>Other Comments</b>	Includes morphologically similar spores of Cercospora, Pseudocercospora, Septoriella, and Septoria.

## CHAETOMIUM++

<b>Natural Habitat</b>	Dung. Seeds. Soil. Straw. Genera with like spores include Amesia, Arcopilus, Botryotrichum, Collariella, Dichotomopilus, Ovatospora, Subramaniula and others.
<b>Suitable Substrates in the Indoor Environment</b>	Paper. Sheetrock. Wallpaper.
<b>Water Activity</b>	Aw=0.84-0.89.
<b>Mode of Dissemination</b>	Wind. Insects. Water splash.
<b>Allergic Potential</b>	Type I (asthma and hay fever).
<b>Potential or Opportunistic Pathogens</b>	Onychomycosis. C. perlucidum recognized as a new agent of cerebral phaeohyphomycosis.
<b>Industrial Uses</b>	Cellulase production, Textile testing.
<b>Potential Toxins Produced</b>	Chaetomin. Chaetoglobosins A,B,D and F are produced by Chaetomium globosum. Sterigmatocystin is produced by rare species

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

<b>CURVULARIA</b>	
<b>Natural Habitat</b>	A worldwide saprophytic fungi, being isolated from dead plant material and soil.
<b>Suitable Substrates in the Indoor Environment</b>	Paper, wood products
<b>Free moisture required for mold growth</b>	Unknown
<b>Mode of Dissemination</b>	Wind
<b>Allergic Potential</b>	Hay fever, asthma, allergic fungal sinusitis
<b>Potential or Opportunistic Pathogens</b>	In immunocompromised patients can cause cerebral abscess, endocarditis, mycetoma, ocular keratitis, onychomycosis, and pneumonia.

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

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## GANODERMA

<b>Natural Habitat</b>	Grows on conifers and hardwoods worldwide, causing white rot, root rot, and stem rot.
<b>Suitable Substrates in the Indoor Environment</b>	Unknown.
<b>Water Activity</b>	Unknown.
<b>Mode of Dissemination</b>	Wind.
<b>Allergic Potential</b>	Ganoderma species are known to cause allergies in people on a worldwide scale.
<b>Potential or Opportunistic Pathogens</b>	Unknown.
<b>Industrial Uses</b>	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
<b>Potential Toxins Produced</b>	Unknown.
<b>Other Comments</b>	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.
<b>Reference</b>	References: Craig, R.L., Levetin, E. 2000. Multi-year study of Ganoderma aerobiology. <i>Aerobiologia</i> 16: 75-81. <a href="http://www.pfc.forestry.ca/diseases/CTD/Group/Heart/heart6_e.html">http://www.pfc.forestry.ca/diseases/CTD/Group/Heart/heart6_e.html</a>

## MYXOMYCETES++

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

## NIGROSPORA

<b>Natural Habitat</b>	Common on live or dead grass, seeds & soil.
<b>Suitable Substrates in the Indoor Environment</b>	Unknown
<b>Water Activity</b>	Unknown
<b>Mode of Dissemination</b>	Forcibly projected.
<b>Allergic Potential</b>	Type 1 allergies (hey fever, asthma)
<b>Potential or Opportunistic Pathogens</b>	Keratitis & skin lesions

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## PITHOMYCES++

<b>Natural Habitat</b>	A worldwide saprophytic fungi, being isolated from dead plant material and soil.
<b>Suitable Substrates in the Indoor Environment</b>	Paper
<b>Water Activity</b>	Requires high moisture for spore germination
<b>Mode of Dissemination</b>	Wind
<b>Allergic Potential</b>	Unknown
<b>Potential or Opportunistic Pathogens</b>	Mycosis in immunocompromised patients
<b>Other Comments</b>	Pithomyces++ includes spores of Pithomyces and Pseudopithomyces.

## RUSTS

<b>Natural Habitat</b>	Parasitic on cultivated and many types of plants
<b>Suitable Substrates in the Indoor Environment</b>	Unknown- rust fungi require a living plant host for growth
<b>Free moisture required for mold growth</b>	Unknown
<b>Mode of Dissemination</b>	Wind, Forcible Ejection
<b>Allergic Potential</b>	Type I. (hay fever, asthma)
<b>Potential or Opportunistic Pathogens</b>	Unknown

## SCOLECOBASIDIUM

<b>Natural Habitat</b>	Soil, decaying plant material in contact with soil
<b>Suitable Substrates in the Indoor Environment</b>	Unknown
<b>Free moisture required for mold growth</b>	Unknown
<b>Mode of Dissemination</b>	Unknown
<b>Allergic Potential</b>	Unknown
<b>Potential or Opportunistic Pathogens</b>	No case of infection has been reported from humans. A few cases of phaeohyphomycosis have been reported in fish, namely coho salmon and rainbow trout

## SPEGAZZINIA

<b>Natural Habitat</b>	Plants, Soils
<b>Suitable Substrates in the Indoor Environment</b>	Unknown
<b>Water Activity</b>	Unknown
<b>Mode of Dissemination</b>	Unknown
<b>Allergic Potential</b>	Unknown
<b>Potential or Opportunistic Pathogens</b>	Unknown

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<b>TORULA++</b>	
<b>Natural Habitat</b>	A worldwide saprophytic fungi, being isolated from dead plant material and soil.
<b>Suitable Substrates in the Indoor Environment</b>	Wood, paper, wicker furniture, baskets
<b>Water Activity</b>	Unknown
<b>Mode of Dissemination</b>	Wind
<b>Allergic Potential</b>	Hay fever, asthma
<b>Potential or Opportunistic Pathogens</b>	Unknown
<b>Other Comments</b>	Spores that appear morphologically similar to Torula include Bahusaganda, Bahusandhika, Pseudotorula and others.

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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](http://www.fema.gov/pdf/rebuild/recover/fema_mold_brochure_english.pdf)



# EMSL Analytical, Inc.

5406 Hoover Blvd, Suite 21 Tampa, FL 33634

Phone: (813) 280-8752 Fax: (813) 280-8753 Web: <http://www.EMSL.com> Email: [tampalab@emsl.com](mailto:tampalab@emsl.com)

**Attn:** Tanner Yirka  
Southern Brothers Inspections  
PO Box 3555  
Jacksonville, FL 32206

EMSL Order: 932403668  
Customer ID: SBRT75  
Collected: 6/11/2024 - 6/12/2024  
Received: 6/12/2024  
Analyzed: 6/12/2024

**Proj:** 10363 Bridge Street , White Springs, Fl 32096 06/11/2024/10363 Bridge Street

## 6. Important Terms, Conditions, and Limitations

### A. Sample Retention

Samples analyzed by EMSL will be retained for 60 days after analysis date Storage beyond this period is available for a fee with written request prior to the initial 30 day period. Samples containing hazardous/toxic substances which require special handling will be returned to the client immediately. EMSL reserves the right to charge a sample disposal fee or return samples to the client.

### 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

EMSL warrants to its clients that all services provided hereunder shall be performed in accordance with established and recognized analytical testing procedures and with reasonable care in accordance with applicable federal, state and local laws. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. EMSL disclaims any other warranties, express or implied, including a warranty of fitness for particular purpose and warranty of merchantability.

### D. Limits of Liability

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. EMSL will not be held responsible for the improper selection of sampling devices even if we supply the device to the user. The user of the sampling device has the sole responsibility to select the proper sampler and sampling conditions to insure that a valid sample is taken for analysis. Any resampling performed will be at the sole discretion of EMSL, the cost of which shall be limited to the reasonable value of the original sample delivery group (SDG) samples. In no event shall EMSL be liable to a client or any third party, whether based upon theories

This report has been prepared by EMSL Analytical, Inc. at the request of and for the exclusive use of the client named in this report. Completely read the important terms, conditions, and limitations that apply to this report.

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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

Client shall indemnify EMSL and its officers, directors and employees and hold each of them harmless for any liability, expense or cost, including reasonable attorney's fees, incurred by reason of any third party claim in connection with EMSL services, the test result data or its use by client