



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

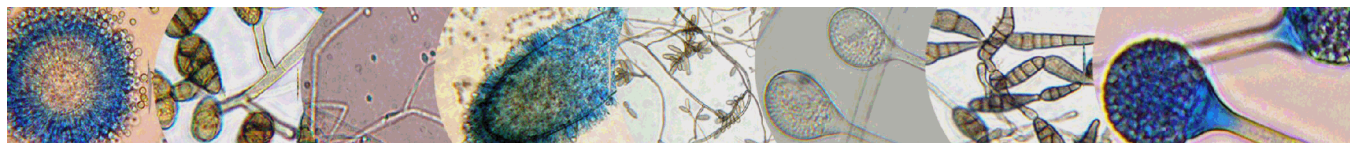
## Prepared Exclusively For

Holland CSD  
103 Canada St.  
Holland, NY 14080  
Phone:716-537-8261

**Report Date:** 9/20/2018  
**Project:** Brumsted Ele.  
**EMSL Order:** 141805068



Environmental Testing Cert #2845.24



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## EMSL Analytical, Inc.

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EMSL Order: 141805068  
Customer ID: HCSD25  
Collected: 9/19/2018  
Received: 9/19/2018  
Analyzed: 9/20/2018

**Proj:** Brumsted Ele.

### 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, such as AIHA-LAP, LLC's EMLAP and proficiency testing providers such as AIHA, LLC's EMPAT programs, 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 AIHA-LAP, LLC policy modules and 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)

	Particle Identification	Sample Concentration (counts/m³)	Background Concentration (counts/m³)	Background Corrected (counts/m³)
<b>Lab Sample Number</b> 141805068-0001	Alternaria (Ulocladium)	None Detected	20	Less than Background
	Ascospores	300	9600	Less than Background
<b>Client Sample ID</b> 26130608	Aspergillus/Penicillium	None Detected	None Detected	Equal To Background
	Basidiospores	40	3570	Less than Background
	Bipolaris++	None Detected	None Detected	Equal To Background
	Chaetomium	None Detected	None Detected	Equal To Background
<b>Location</b> Brum rm 25	Cladosporium	60	2100	Less than Background
	Curvularia	None Detected	None Detected	Equal To Background
	Epicoccum	None Detected	20	Less than Background
	Fusarium	None Detected	None Detected	Equal To Background
	Ganoderma	40	930	Less than Background
<b>Sample Volume (L)</b> 150	Myxomycetes++	7*	200	Less than Background
	Pithomyces++	None Detected	20	Less than Background
	Rust	None Detected	None Detected	Equal To Background
<b>Sample Type</b> Inside	Scopulariopsis/Microascus	None Detected	None Detected	Equal To Background
	Stachybotrys/Memnoniella	None Detected	None Detected	Equal To Background
	Unidentifiable Spores	None Detected	None Detected	Equal To Background
	Zygomycetes	None Detected	None Detected	Equal To Background
<b>Comments</b>	Polythrincium	None Detected	7*	Less than Background
	<b>Total Fungi</b>	<b>447</b>	<b>16467</b>	<b>Less than Background</b>
	Other			
	Hyphal Fragment	None Detected	None Detected	Equal To Background
	Insect Fragment	None Detected	None Detected	Equal To Background
	Pollen	None Detected	20	Less than Background
	Analytical Sensitivity 600x:		21	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:		2	1 to 4 (low to high); 5 (overloaded)	

Christopher Goulah, Microbiology Manager  
or Other Approved Signatory

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

Samples received in good condition unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "\*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client.

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Initial report from: 09/20/2018 14:40:31

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**Proj:** Brumsted Ele.

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

	Particle Identification	Sample Concentration (counts/m³)	Background Concentration (counts/m³)	Background Corrected (counts/m³)
<b>Lab Sample Number</b> 141805068-0002	Alternaria (Ulocladium)	20	N/A	N/A
	Ascospores	9600	N/A	N/A
	Aspergillus/Penicillium	None Detected	N/A	N/A
<b>Client Sample ID</b> 26130609	Basidiospores	3570	N/A	N/A
	Bipolaris++	None Detected	N/A	N/A
	Chaetomium	None Detected	N/A	N/A
	Cladosporium	2100	N/A	N/A
<b>Location</b> Brum exterior rear door 6	Curvularia	None Detected	N/A	N/A
	Epicoccum	20	N/A	N/A
	Fusarium	None Detected	N/A	N/A
	Ganoderma	930	N/A	N/A
	Myxomycetes++	200	N/A	N/A
<b>Sample Volume (L)</b> 150	Pithomyces++	20	N/A	N/A
	Rust	None Detected	N/A	N/A
	Scopulariopsis/Microascus	None Detected	N/A	N/A
	Stachybotrys/Memnoniella	None Detected	N/A	N/A
<b>Sample Type</b> Background	Unidentifiable Spores	None Detected	N/A	N/A
	Zygomycetes	None Detected	N/A	N/A
	Polythrincium	7*	N/A	N/A
<b>Comments</b>	<b>Total Fungi</b>	<b>16467</b>	<b>N/A</b>	<b>N/A</b>
	Other			
	Hyphal Fragment	None Detected	N/A	N/A
	Insect Fragment	None Detected	N/A	N/A
	Pollen	20	N/A	N/A
	Analytical Sensitivity 600x:	21	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:	2	1 to 4 (low to high); 5 (overloaded)	

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

	Particle Identification	Sample Concentration (counts/m <sup>3</sup> )	Background Concentration (counts/m <sup>3</sup> )	Background Corrected (counts/m <sup>3</sup> )
<b>Lab Sample Number</b> 141805068-0003	Alternaria (Ulocladium)	None Detected	None Detected	N/A
	Ascospores	None Detected	None Detected	N/A
	Aspergillus/Penicillium	None Detected	None Detected	N/A
<b>Client Sample ID</b> 26130611	Basidiospores	None Detected	None Detected	N/A
	Bipolaris++	None Detected	None Detected	N/A
	Chaetomium	None Detected	None Detected	N/A
	Cladosporium	None Detected	None Detected	N/A
<b>Location</b> blank	Curvularia	None Detected	None Detected	N/A
	Epicoccum	None Detected	None Detected	N/A
	Fusarium	None Detected	None Detected	N/A
	Ganoderma	None Detected	None Detected	N/A
<b>Sample Volume (L)</b>	Myxomycetes++	None Detected	None Detected	N/A
	Pithomyces++	None Detected	None Detected	N/A
	Rust	None Detected	None Detected	N/A
	Scopulariopsis/Microascus	None Detected	None Detected	N/A
<b>Sample Type</b> Blank	Stachybotrys/Memnoniella	None Detected	None Detected	N/A
	Unidentifiable Spores	None Detected	None Detected	N/A
	Zygomycetes	None Detected	None Detected	N/A
	Polythrincium	None Detected	None Detected	N/A
<b>Comments</b>	<b>Total Fungi</b>	<b>None Detected</b>	<b>None Detected</b>	<b>N/A</b>
	Other			
	Hyphal Fragment	None Detected	None Detected	N/A
	Insect Fragment	None Detected	None Detected	N/A
	Pollen	None Detected	None Detected	N/A
	Analytical Sensitivity 600x:	0	counts/cubic meter	
	Analytical Sensitivity 300x *:	0*	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)		

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

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	Particle Identification	Sample Concentration (counts/m³)	Background Concentration (counts/m³)	Background Corrected (counts/m³)
<b>Lab Sample Number</b> 141805068-0004	Alternaria (Ulocladium)	20	20	Equal To Background
	Ascospores	3040	9600	Less than Background
<b>Client Sample ID</b> 26130614	Aspergillus/Penicillium	None Detected	None Detected	Equal To Background
	Basidiospores	1500	3570	Less than Background
	Bipolaris++	None Detected	None Detected	Equal To Background
	Chaetomium	None Detected	None Detected	Equal To Background
	Cladosporium	1600	2100	Less than Background
<b>Location</b> Brum corr by rm 32/33	Curvularia	None Detected	None Detected	Equal To Background
	Epicoccum	None Detected	20	Less than Background
	Fusarium	None Detected	None Detected	Equal To Background
	Ganoderma	460	930	Less than Background
	Myxomycetes++	20	200	Less than Background
<b>Sample Volume (L)</b> 150	Pithomyces++	20	20	Equal To Background
	Rust	None Detected	None Detected	Equal To Background
	Scopulariopsis/Microascus	None Detected	None Detected	Equal To Background
	Stachybotrys/Memnoniella	None Detected	None Detected	Equal To Background
<b>Sample Type</b> Inside	Unidentifiable Spores	None Detected	None Detected	Equal To Background
	Zygomycetes	None Detected	None Detected	Equal To Background
	Polythrincium	None Detected	7*	Less than Background
<b>Comments</b>	<b>Total Fungi</b>	<b>6660</b>	<b>16467</b>	<b>Less than Background</b>
	Other			
	Hyphal Fragment	None Detected	None Detected	Equal To Background
	Insect Fragment	None Detected	None Detected	Equal To Background
	Pollen	None Detected	20	Less than Background
	Analytical Sensitivity 600x:		21	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:		2	1 to 4 (low to high); 5 (overloaded)

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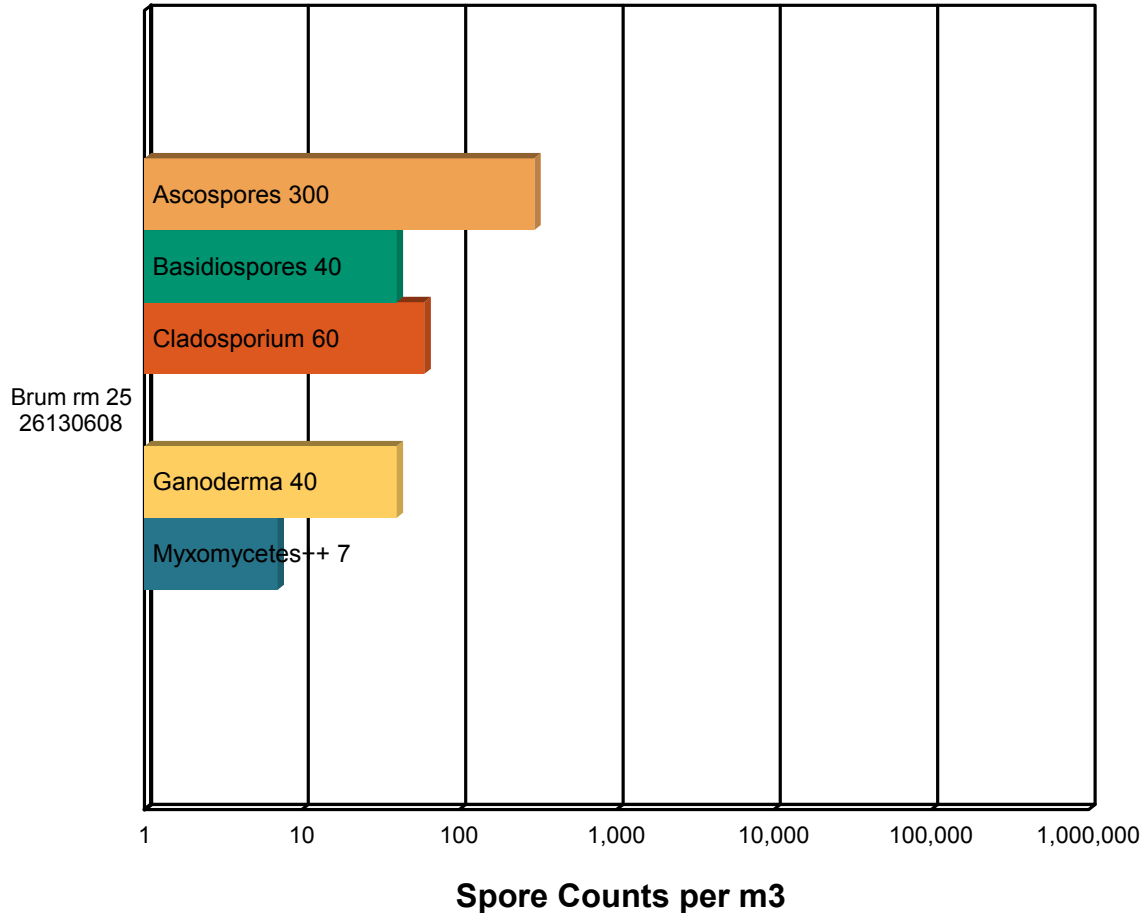
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## Spore Trap Report: Total Counts



■ Alternaria (Ulocladium)	■ Ascospores	■ Basidiospores
■ Cladosporium	■ Epicoccum	■ Ganoderma
■ Myxomycetes++	■ Pithomyces++	■ Polythrincium

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

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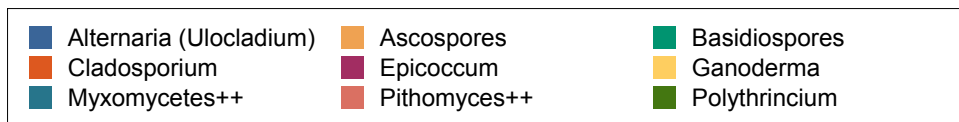
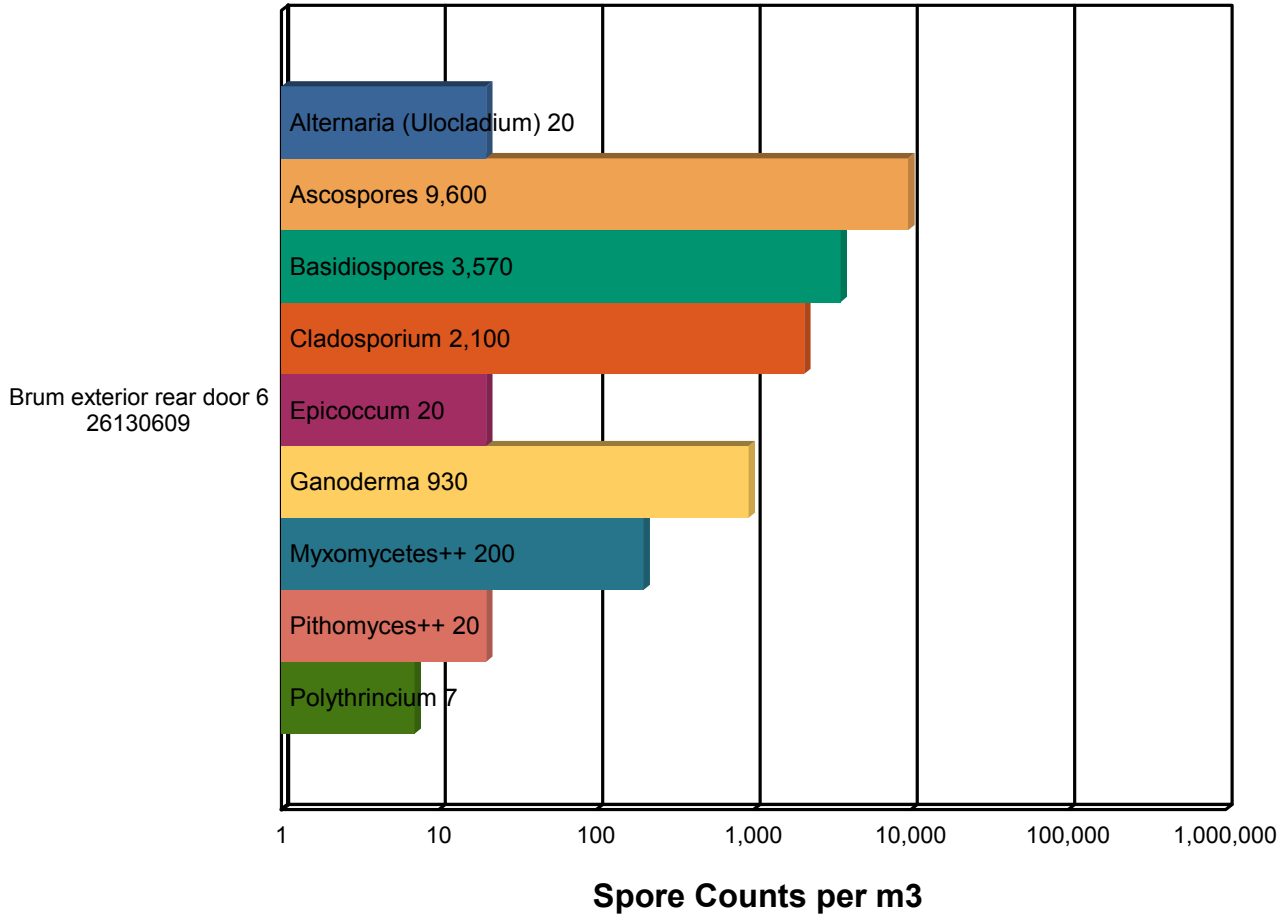
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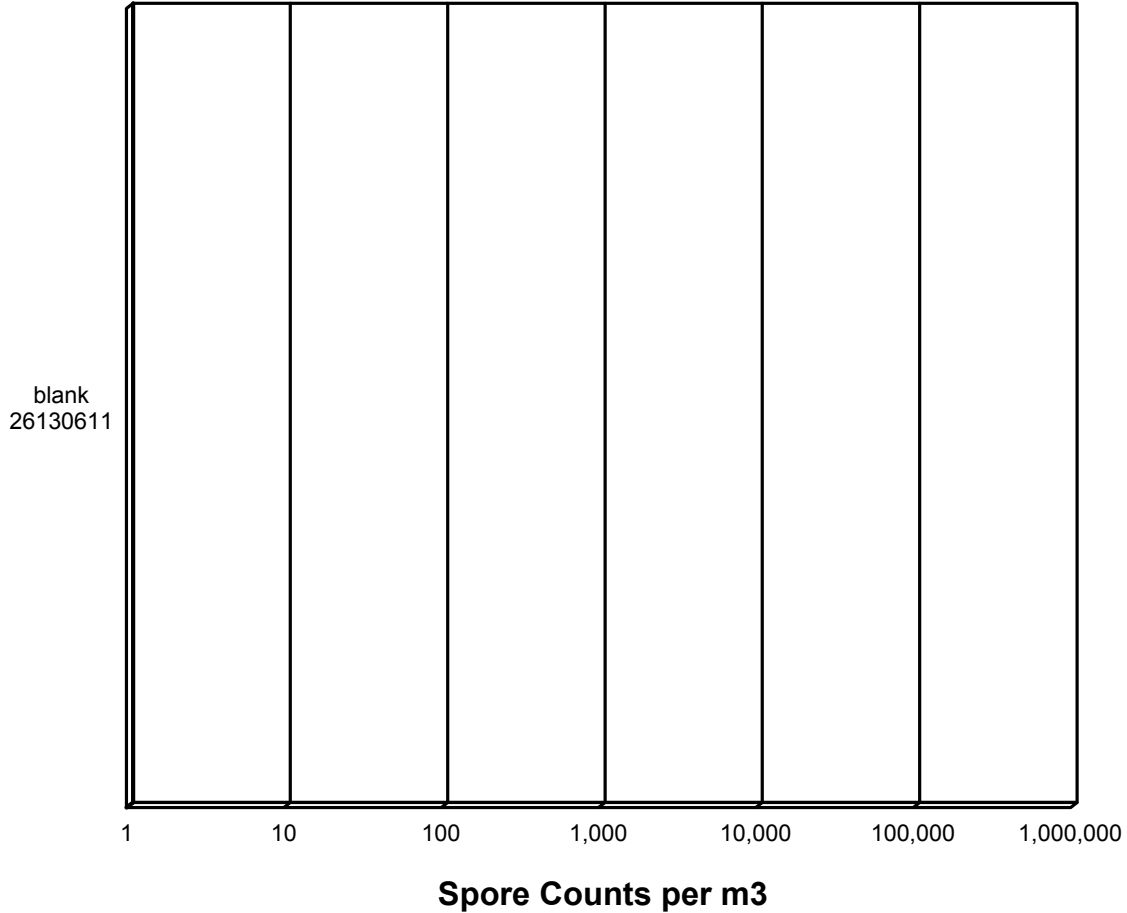
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Holland CSD  
103 Canada St.  
Holland, NY 14080

EMSL Order: 141805068  
Customer ID: HCSD25  
Collected: 9/19/2018  
Received: 9/19/2018  
Analyzed: 9/20/2018

**Proj:** Brumsted Ele.

## Spore Trap Report: Total Counts



■ Alternaria (Ulocladium)	■ Ascospores	■ Basidiospores
■ Cladosporium	■ Epicoccum	■ Ganoderma
■ Myxomycetes++	■ Pithomyces++	■ Polythrincium

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

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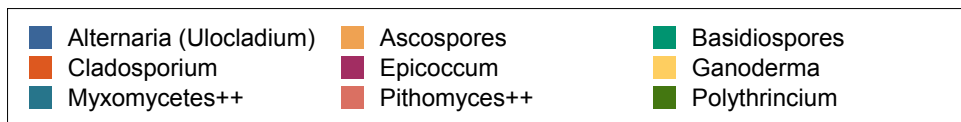
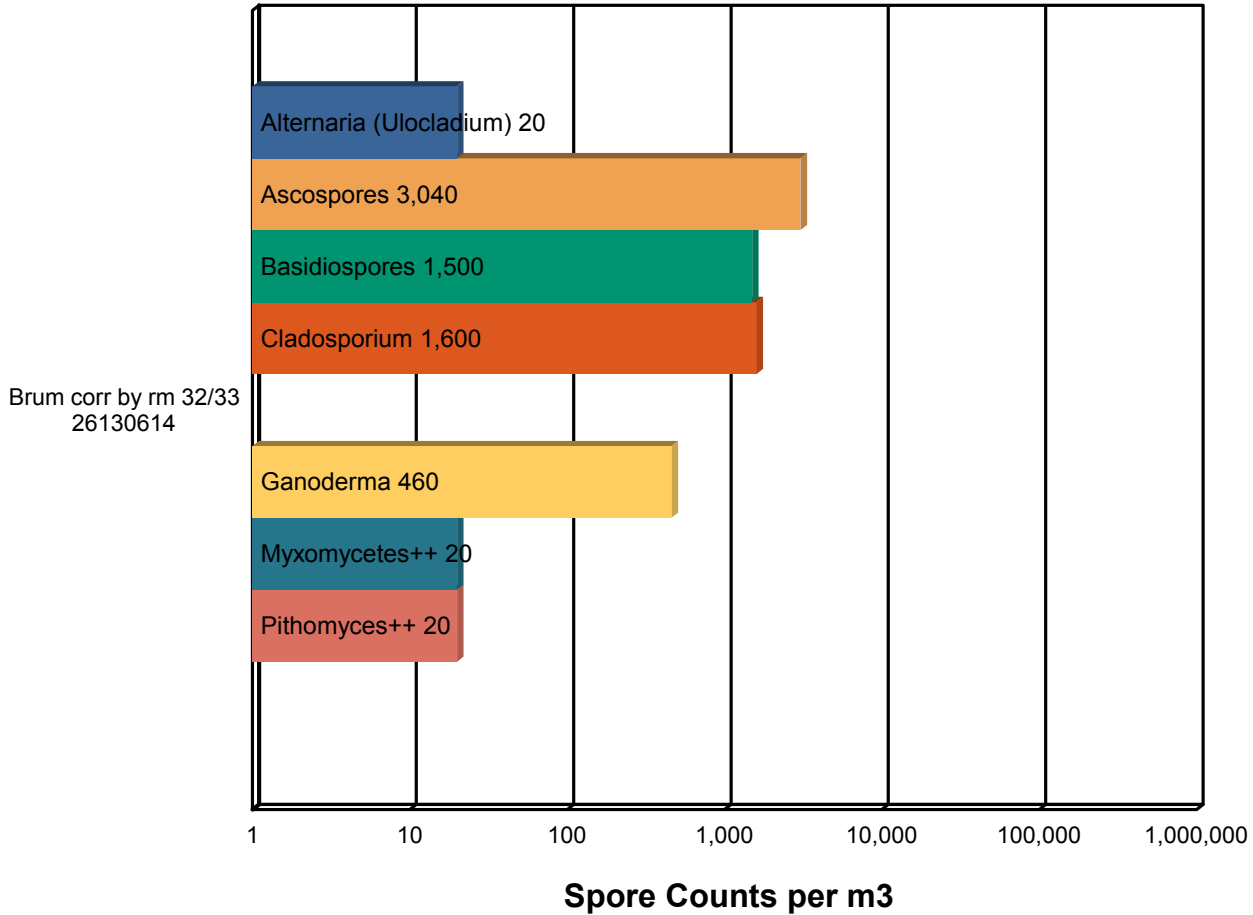
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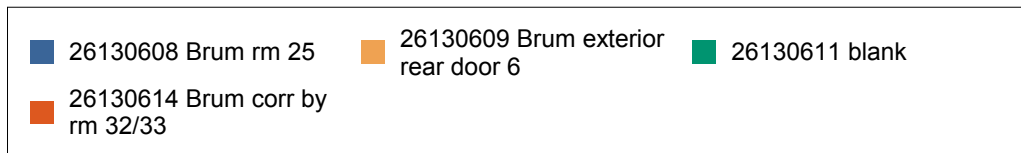
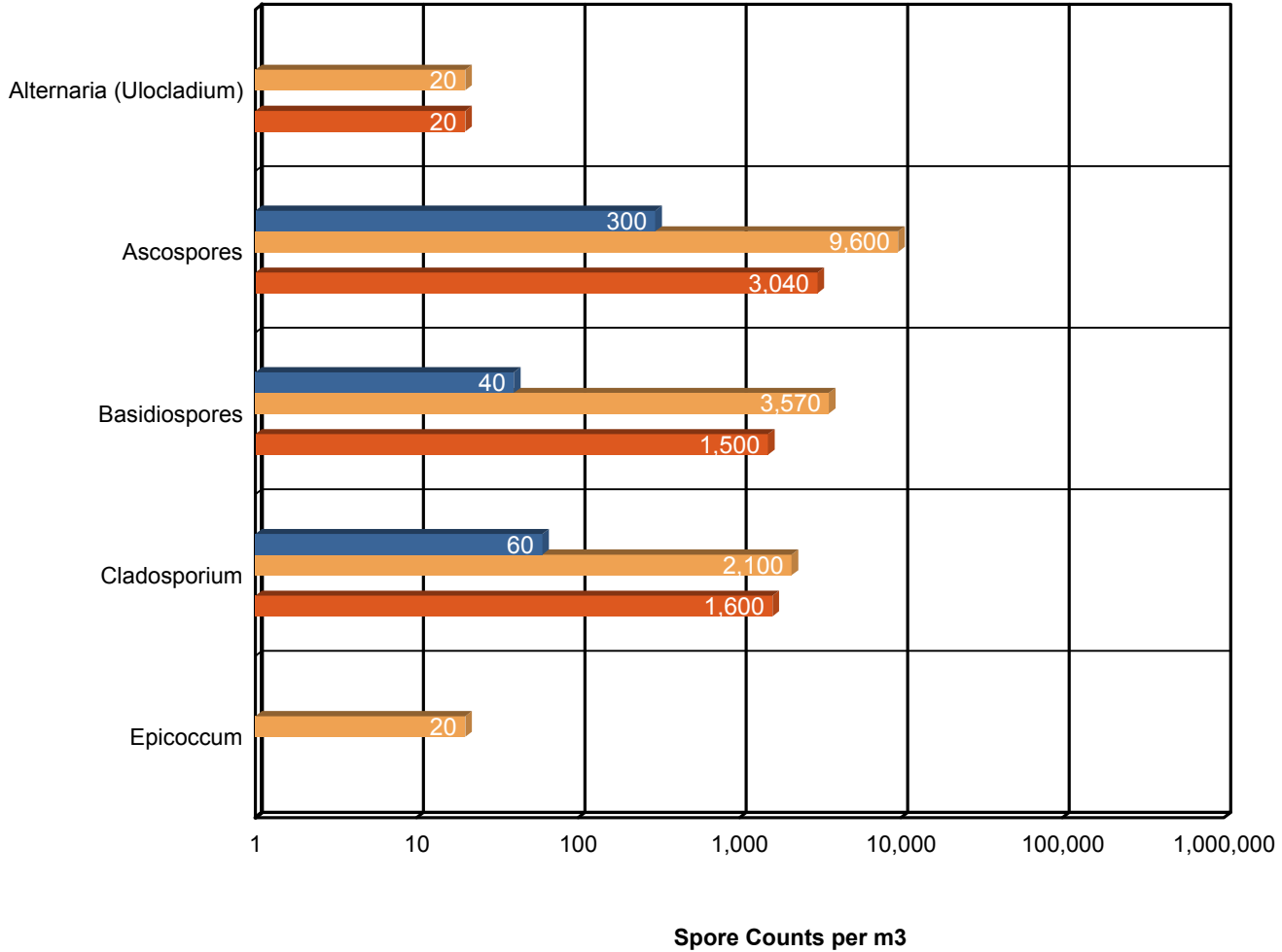
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## Background Comparison Chart



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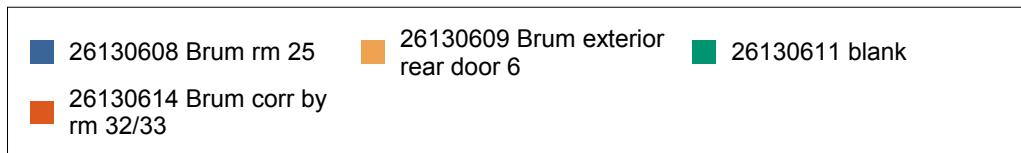
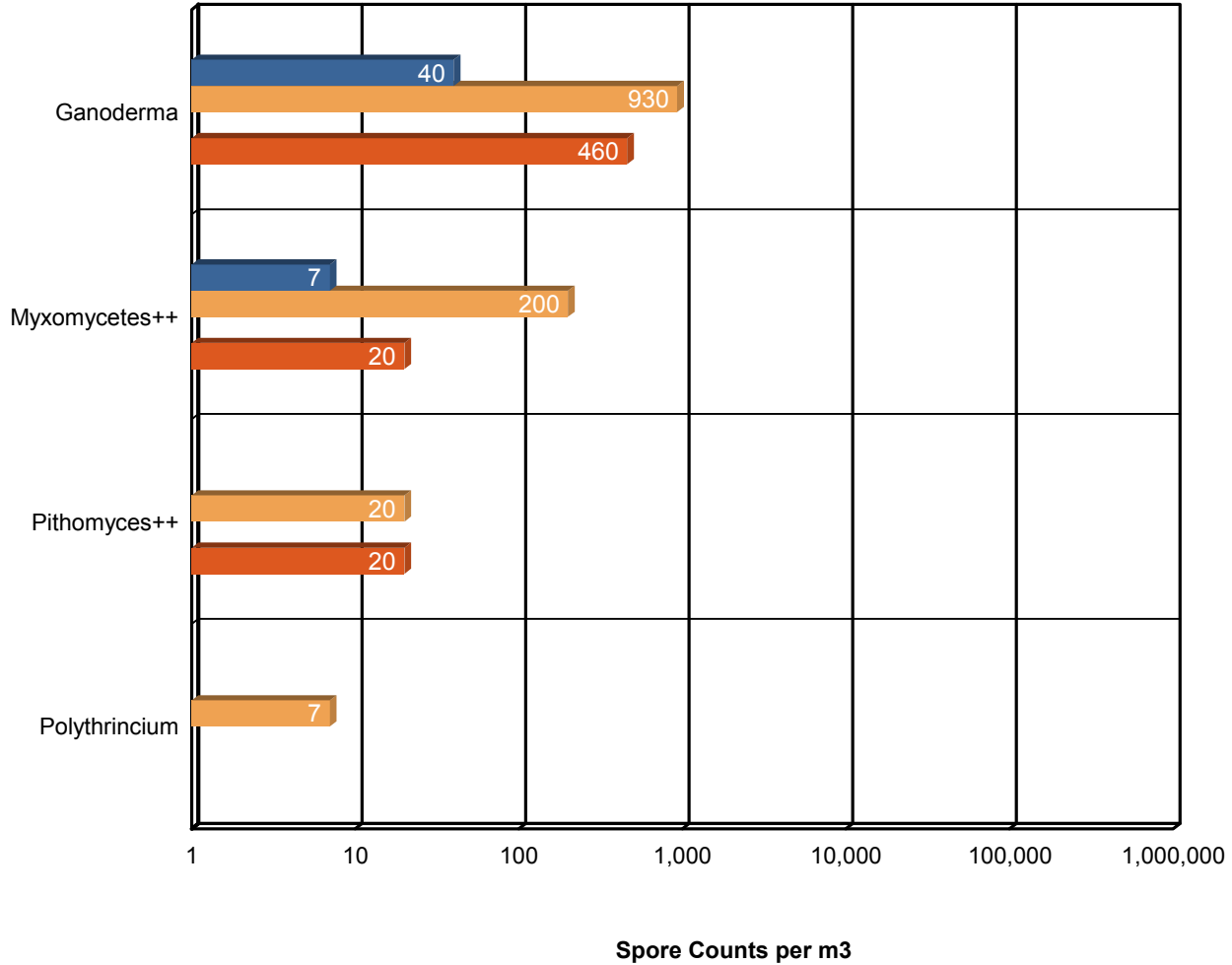
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### 3. Understanding the Results

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

<b>ALTERNARIA(ULOCLADIUM)</b>	
<b>Allergic Potential</b>	Type I allergies (hay fever, asthma), Type III (hypersensitivity pneumonitis)
<b>Industrial Uses</b>	Biocontrol of weed plants ·Biocontrol fungal plant pathogens.
<b>Mode of Dissemination</b>	Wind
<b>Natural Habitat</b>	Common saprobe and pathogen of plants. Typically found on plant tissue, decaying wood, and foods. Soil . Air outdoors.
<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>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>Potential Toxins Produced</b>	Alternariol (AOH) . Alternariol monomethylether (AME). Tenuazonic acid (TeA). Altenuene (ALT). Alternatoxins (ATX)
<b>References</b>	Alternaria redefined. J. Woudenberg et al., Studies in Mycology. Volume 75, June 2013, Pages 171-212
<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>ASCOSPORES</b>	
<b>Allergic Potential</b>	Depends on genus and species.
<b>Industrial Uses</b>	
<b>Mode of Dissemination</b>	Forcible ejection or passive release and dissemination by wind or insects.
<b>Natural Habitat</b>	Everywhere in nature.
<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.
<b>Potential or Opportunistic Pathogens</b>	Depends on genus and species.
<b>Potential Toxins Produced</b>	
<b>Suitable Substrates in the Indoor Environment</b>	
<b>Water Activity</b>	

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

<b>CLADOSPORIUM</b>	
<b>Allergic Potential</b>	Type I (asthma and hay fever).
<b>Industrial Uses</b>	Produces 10 antigens.
<b>Mode of Dissemination</b>	Air
<b>Natural Habitat</b>	Dead plant matter. Straw. Soil. Woody plants
<b>Potential or Opportunistic Pathogens</b>	Edema. keratitis. onychomycosis. pulmonary infections. Sinusitis.
<b>Potential Toxins Produced</b>	Cladospurin and Emodin.
<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>EPICOCCUM</b>	
<b>Allergic Potential</b>	Hay fever, asthma
<b>Mode of Dissemination</b>	Wind
<b>Natural Habitat</b>	A worldwide saprophytic fungi, being isolated from dead plant material and soil.
<b>Potential or Opportunistic Pathogens</b>	Unknown
<b>Suitable Substrates in the Indoor Environment</b>	Paper, textiles
<b>Water Activity</b>	0.86-0.90

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<b>GANODERMA</b>	
<b>Allergic Potential</b>	Ganoderma species are known to cause allergies in people on a worldwide scale.
<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>Mode of Dissemination</b>	Wind.
<b>Natural Habitat</b>	Grows on conifers and hardwoods worldwide, causing white rot, root rot, and stem rot.
<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>Potential or Opportunistic Pathogens</b>	Unknown.
<b>Potential Toxins Produced</b>	
<b>Reference</b>	References: Craig, R.L., Levetin, E. 2000. Multi-year study of Ganoderma aerobiology. Aerobiologia 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>
<b>Suitable Substrates in the Indoor Environment</b>	Unknown.
<b>Water Activity</b>	

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

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

<b>POLYTHRINCUM</b>	
<b>Allergic Potential</b>	Allergenic potential in this genus is not well understood, and is currently being studied.
<b>Natural Habitat</b>	Leaves
<b>Potential Opportunist or Pathogen</b>	Unknown
<b>Potential Toxins Produced</b>	
<b>Suitable Substrates in the Indoor Environment</b>	

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### 5. References and Informational Links

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### 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

<http://www.iom.edu/Reports/2000/Clearing-the-Air-Asthma-and-Indoor-Air-Exposures.aspx>

National Library of Medicine-Mold website

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

California Department of Health Services (CADOHS)

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<http://www.cal-iaq.org/separator/mold-and-dampness/about-mold>

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

<http://conyers.house.gov/index.cfm/issues?p=toxic-mold>

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

<http://conyers.house.gov/index.cfm/issues?p=toxic-mold>

### 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.

[http://www.epa.gov/mold/mold\\_remediation.html](http://www.epa.gov/mold/mold_remediation.html)

### 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)

"Prompt Flood Cleanup Can Help Prevent Health Problems" - How to clean up in-house mold problems (not large or serious exposures).

<http://www.fema.gov/news-release/prompt-flood-cleanup-can-help-prevent-health-problems>



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### 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

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Customer ID: HCSD25  
Collected: 9/19/2018  
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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

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