



EXPANDED FUNGAL REPORT TM

Prepared Exclusively For

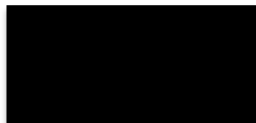
Beach House Home Inspections LLC

1105 Captain Hooks Way
North Myrtle Beach, SC 29582
Phone:854-854-0049

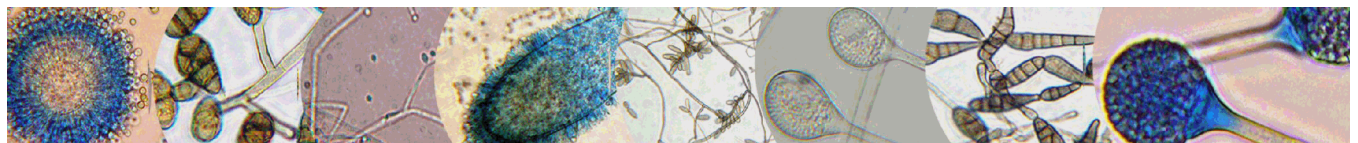
Report Date:

Project:

EMSL Order:

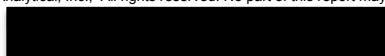


AIHA-LAP, LLC - EMLAP 192283



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EMSL Analytical, Inc.

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Attn: Martin Willes
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EMSL Order: [REDACTED]
Customer ID: [REDACTED]
Collected: [REDACTED]
Received: [REDACTED]
Analyzed: [REDACTED]

Proj: [REDACTED]

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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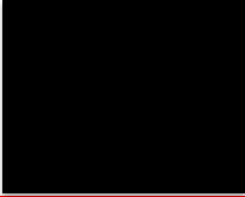
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Air Samples - Spore traps:

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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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
412001129-0001	Alternaria (Ulocladium)	-	-	-	
	Ascospores	4	80	2.1	
Client Sample ID	Aspergillus/Penicillium	6	100	2.6	
#1184 #1	Basidiospores	172	3630	93.8	
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location	Cladosporium	2	40	1	
Outside/ Air-O-Cell	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Volume (L)	Fusarium	-	-	-	
150	Ganoderma	-	-	-	
	Myxomycetes++	1*	7*	0.2	
	Pithomyces++	-	-	-	
Sample Type	Rust	-	-	-	
Background	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
Comments	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Nigrospora	1*	7*	0.2	
	Pestalotia/Pestalotiopsis	1*	7*	0.2	
	Spegazzinia	-	-	-	
	Total Fungi	187	3871	100	
	Hyphal Fragment	1*	7*	-	
	Insect Fragment	-	-	-	
	Pollen	20	420	-	
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		1 to 4 (low to high)	
		Background: 1		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.
- 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

Lee Plumley, Laboratory Manager
or Other Approved Signatory

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. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.
Samples analyzed by EMSL Analytical, Inc. Pineville, NC AIHA-LAP, LLC - EMLAP 192283

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Proj: [Redacted]

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
412001129-0002	Alternaria (Ulocladium)	1	20	0.6	
	Ascospores	4	80	2.2	
Client Sample ID #1171 #2	Aspergillus/Penicillium	2	40	1.1	
	Basidiospores	153	3230	89.2	
Location Outside/ Air-O-Cell	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Sample Volume (L) 150	Cladosporium	12	250	6.9	
	Curvularia	-	-	-	
Sample Type Background	Epicoccum	-	-	-	
	Fusarium	-	-	-	
Comments	Ganoderma	-	-	-	
	Myxomycetes++	-	-	-	
	Pithomyces++	-	-	-	
	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Nigrospora	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Total Fungi	172	3620	100	
	Hyphal Fragment	-	-	-	
	Insect Fragment	1	20	-	
	Pollen	11	230	-	
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		1 to 4 (low to high)	
		Background: 1		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.
- 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

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Collected: [Redacted]
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Analyzed: [Redacted]

Proj: [Redacted]





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	
412001129-0003	Alternaria (Ulocladium)	3	60	14.1	Slightly Elevated   
	Ascospores	-	-	-	
Client Sample ID	Aspergillus/Penicillium	5	100	23.4	Acceptable 
	#1204	Basidiospores	3	60	14.1
	Bipolaris++	1	20	4.7	Slightly Elevated   
Location	Chaetomium	-	-	-	
	Bedroom/ Air-O-Cell	Cladosporium	1	20	4.7
	Curvularia	-	-	-	
Sample Volume (L)	Epicoccum	1*	7*	1.6	Slightly Elevated  
	150	Fusarium	-	-	-
Sample Type	Ganoderma	-	-	-	
	Inside	Myxomycetes++	1	20	4.7
Comments	Pithomyces++	4	80	18.7	Slightly Elevated  
		Rust	-	-	-
	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	1	20	4.7	Slightly Elevated   
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Nigrospora	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	2	40	9.4	Slightly Elevated 
	Total Fungi	22	427	100	Acceptable
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: 21 counts/cubic meter
Analytical Sensitivity 300x *: 7* counts/cubic meter

Skin Fragments: 2 1 to 4 (low to high)
Fibrous Particulate: 1 1 to 4 (low to high)
Background: 3 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

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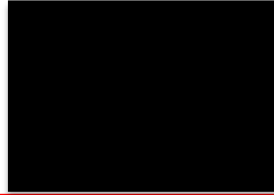
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Proj: [Redacted]





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
412001129-0004	Alternaria (Ulocladium)	2*	10*	14.9	Acceptable   
	Ascospores	-	-	-	
Client Sample ID	Aspergillus/Penicillium	-	-	-	
#1174	Basidiospores	2	40	59.7	Acceptable  
	Bipolaris++	-	-	-	
Location	Chaetomium	-	-	-	
Kitchen/ Air-O-Cell	Cladosporium	2*	10*	14.9	Acceptable 
	Curvularia	-	-	-	
Sample Volume (L)	Epicoccum	-	-	-	
150	Fusarium	-	-	-	
	Ganoderma	-	-	-	
Sample Type	Myxomycetes++	1*	7*	10.4	Acceptable  
	Pithomyces++	-	-	-	
Inside	Rust	-	-	-	
Comments	Scopulariopsis/Microascus	-	-	-	
	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Nigrospora	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Total Fungi	7	67	100	Acceptable
	Hyphal Fragment	-	-	-	
	Insect Fragment	-	-	-	
	Pollen	-	-	-	

Analytical Sensitivity 600x: 21 counts/cubic meter
Analytical Sensitivity 300x *: 7* counts/cubic meter

Skin Fragments: 3 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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- Slightly Elevated** Concentration above background
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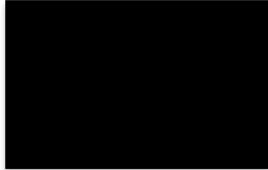
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412001129-0005	Alternaria (Ulocladium)	3	60	21.4	Slightly Elevated   
	Ascospores	1	20	7.1	Acceptable 
Client Sample ID #1241	Aspergillus/Penicillium	4	80	28.6	Acceptable 
	Basidiospores	6	100	35.7	Acceptable  
	Bipolaris++	-	-	-	
	Chaetomium	-	-	-	
Location Living Room/ Air-O-Cell	Cladosporium	1	20	7.1	Acceptable 
	Curvularia	-	-	-	
	Epicoccum	-	-	-	
Sample Volume (L) 150	Fusarium	-	-	-	
	Ganoderma	-	-	-	
	Myxomycetes++	-	-	-	
Sample Type Inside	Pithomyces++	-	-	-	
	Rust	-	-	-	
	Scopulariopsis/Microascus	-	-	-	
Comments	Stachybotrys/Memnoniella	-	-	-	
	Unidentifiable Spores	-	-	-	
	Zygomycetes	-	-	-	
	Nigrospora	-	-	-	
	Pestalotia/Pestalotiopsis	-	-	-	
	Spegazzinia	-	-	-	
	Total Fungi	15	280	100	Acceptable
	Hyphal Fragment	1	20	-	Slightly Elevated
	Insect Fragment	-	-	-	
	Pollen	1*	7*	-	Acceptable  
Analytical Sensitivity 600x: 21 counts/cubic meter		Skin Fragments: 3		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)	

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Analyzed: [Redacted]

Proj: [Redacted]

Surface Contamination ASSESSMENTReport TM Tape 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 #: 412001129-0006 Client Sample ID: #8289	Mech Room/ Biotape	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.

Lee Plumley, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC AIHA-LAP, LLC--EMLAP Accredited #192283

Initial report from [Redacted]

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