



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

Prepared Exclusively For

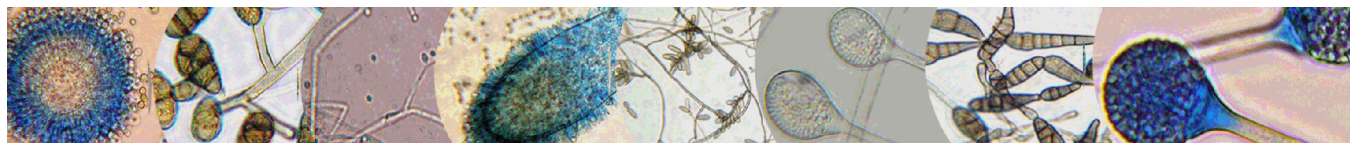
Royal Air Pros



Phone: 516-966-8368

**Report Date:** 4/25/2024  
**Project:** [Redacted]  
**P.O.:** 3123325224  
**EMSL Order:** 062404039

**AIHA LAP, LLC.**



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# EMSL Analytical, Inc.

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Attn: Keith Waller  
Royal Air Pros

[Redacted]

Proj:

[Redacted]

EMSL Order: 062404030

Customer ID: [Redacted]

Collected: 4/16/2024

Received: 4/16/2024

Analyzed: 4/17/2024

## 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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## 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             |
|--|---------------------------|----------------------|-------------|------------|--------------------------------------|
| 062404039-0001   | Alternaria (Ulocladium)   | -                    | -           | -          |                                      |
|  | Ascospores                | 1                    | 40          | 3.4        |                                      |
| Client Sample ID<br>3793-6331                                | Aspergillus/Penicillium++ | 1                    | 40          | 3.4        |                                      |
|  | Basidiospores             | 20                   | 870         | 75         |                                      |
|  | Bipolaris++               | -                    | -           | -          |                                      |
|  | Chaetomium++              | -                    | -           | -          |                                      |
| Location<br>Outside Control Air                              | Cladosporium              | 4                    | 200         | 17.2       |                                      |
|  | Curvularia                | -                    | -           | -          |                                      |
|  | Epicoccum                 | -                    | -           | -          |                                      |
| Sample Volume (L)<br>75                                      | Fusarium++                | -                    | -           | -          |                                      |
|  | Ganoderma                 | -                    | -           | -          |                                      |
|  | Myxomycetes++             | 1*                   | 10*         | 0.9        |                                      |
|  | Pithomyces++              | -                    | -           | -          |                                      |
| Sample Type<br>Background                                    | Rust                      | -                    | -           | -          |                                      |
|  | Scopulariopsis/Microascus | -                    | -           | -          |                                      |
|  | Stachybotrys/Memnoniella  | -                    | -           | -          |                                      |
| Comments   | Unidentifiable Spores     | -                    | -           | -          |                                      |
|  | Zygomycetes               | -                    | -           | -          |                                      |
|  | <b>Total Fungi</b>        | <b>27</b>            | <b>1160</b> | <b>100</b> |                                      |
|  | Other                     |                      |             |            |                                      |
|  | Hyphal Fragment           | -                    | -           | -          |                                      |
|  | Insect Fragment           | -                    | -           | -          |                                      |
|  | Pollen                    | 1*                   | 10*         | -          |                                      |
| Analytical Sensitivity 600x: <b>44</b> counts/cubic meter    |                           | Skin Fragments:      |             | <b>1</b>   | 1 to 4 (low to high)                 |
| Analytical Sensitivity 300x *: <b>13*</b> counts/cubic meter |                           | Fibrous Particulate: |             | <b>1</b>   | 1 to 4 (low to high)                 |
|  |                           | Background:          |             | <b>2</b>   | 1 to 4 (low to high); 5 (overloaded) |

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

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

- Concentration at or below background
- Concentration above background
- 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.

Initial report from: 04/17/2024 15:59:30

Erica Sarmiento, Microbiology Lab Manager  
or Other Approved Signatory

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Attn: Keith Waller  
Roval Air Pros

EMSL Order: 062404039

Customer ID:

Collected: 4/16/2024

Received: 4/16/2024

Analyzed: 4/17/2024

Proj:

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

|  | Particle Identification   | Raw Count            | (Count/m <sup>3</sup> ) | % of Total | Interpretation Guideline             |
|--|---------------------------|----------------------|-------------------------|------------|--------------------------------------|
| 062404039-0002   | Alternaria (Ulocladium)   | -                    | -                       | -          |                                      |
|  | Ascospores                | -                    | -                       | -          |                                      |
| Client Sample ID<br>3793-6345                                | Aspergillus/Penicillium++ | -                    | -                       | -          |                                      |
|  | Basidiospores             | 2                    | 90                      | 40.9       |                                      |
| Location<br>Julia's Room - Air                               | Bipolaris++               | -                    | -                       | -          |                                      |
|  | Chaetomium++              | -                    | -                       | -          |                                      |
| Sample Volume (L)<br>75                                      | Cladosporium              | 2                    | 90                      | 40.9       |                                      |
|  | Curvularia                | 1                    | 40                      | 18.2       |                                      |
| Sample Type<br>Inside  | Epicoccum                 | -                    | -                       | -          |                                      |
|  | Fusarium++                | -                    | -                       | -          |                                      |
| Comments   | Ganoderma                 | -                    | -                       | -          |                                      |
|  | Myxomycetes++             | -                    | -                       | -          |                                      |
|  | Pithomyces++              | -                    | -                       | -          |                                      |
|  | Rust                      | -                    | -                       | -          |                                      |
|  | Scopulariopsis/Microascus | -                    | -                       | -          |                                      |
|  | Stachybotrys/Memnoniella  | -                    | -                       | -          |                                      |
|  | Unidentifiable Spores     | -                    | -                       | -          |                                      |
|  | Zygomycetes               | -                    | -                       | -          |                                      |
|  | <b>Total Fungi</b>        | <b>5</b>             | <b>220</b>              | <b>100</b> |                                      |
|  | Other                     |                      |                         |            |                                      |
|  | Hyphal Fragment           | 1*                   | 10*                     | -          |                                      |
|  | Insect Fragment           | -                    | -                       | -          |                                      |
|  | Pollen                    | 1                    | 40                      | -          |                                      |
| Analytical Sensitivity 600x: <b>44</b> counts/cubic meter    |                           | Skin Fragments:      |                         | <b>2</b>   | 1 to 4 (low to high)                 |
| Analytical Sensitivity 300x *: <b>13*</b> counts/cubic meter |                           | Fibrous Particulate: |                         | <b>2</b>   | 1 to 4 (low to high)                 |
|  |                           | Background:          |                         | <b>2</b>   | 1 to 4 (low to high); 5 (overloaded) |

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

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

- Concentration at or below background
- Concentration above background
- 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.

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EMSL Order: 062404039

Customer ID: [REDACTED]

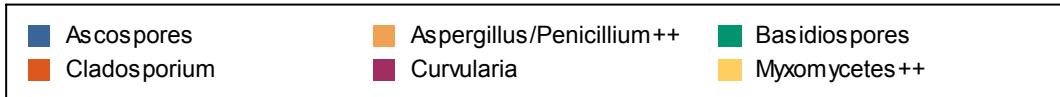
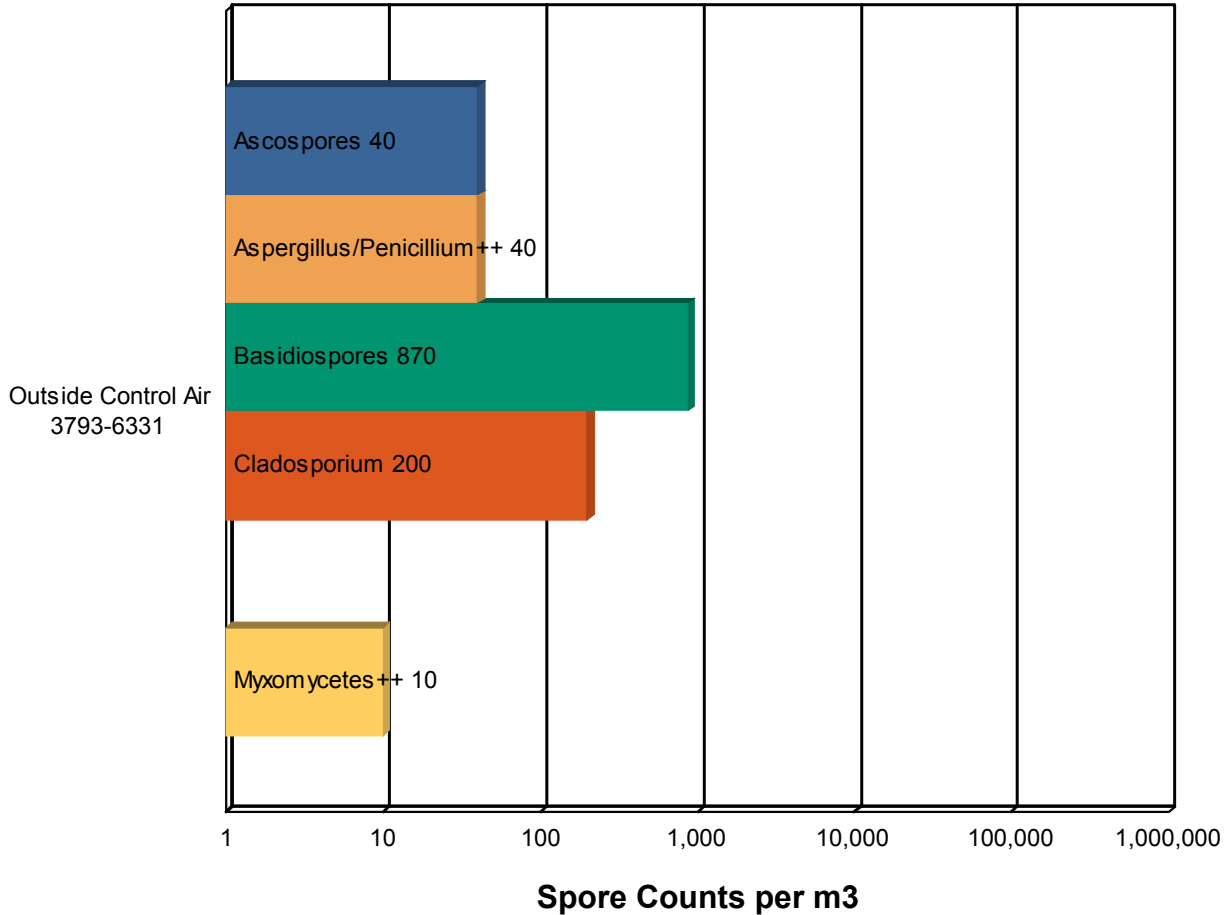
Collected: 4/16/2024

Received: 4/16/2024

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Proj: [REDACTED]

## Spore Trap Report: Total Counts



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

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Royal Air Pros

EMSL Order: 062404039

Customer ID: [REDACTED]

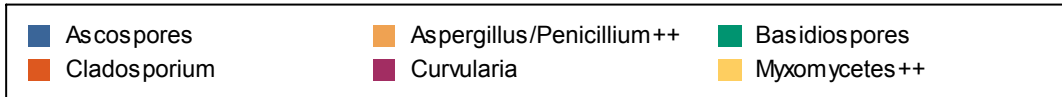
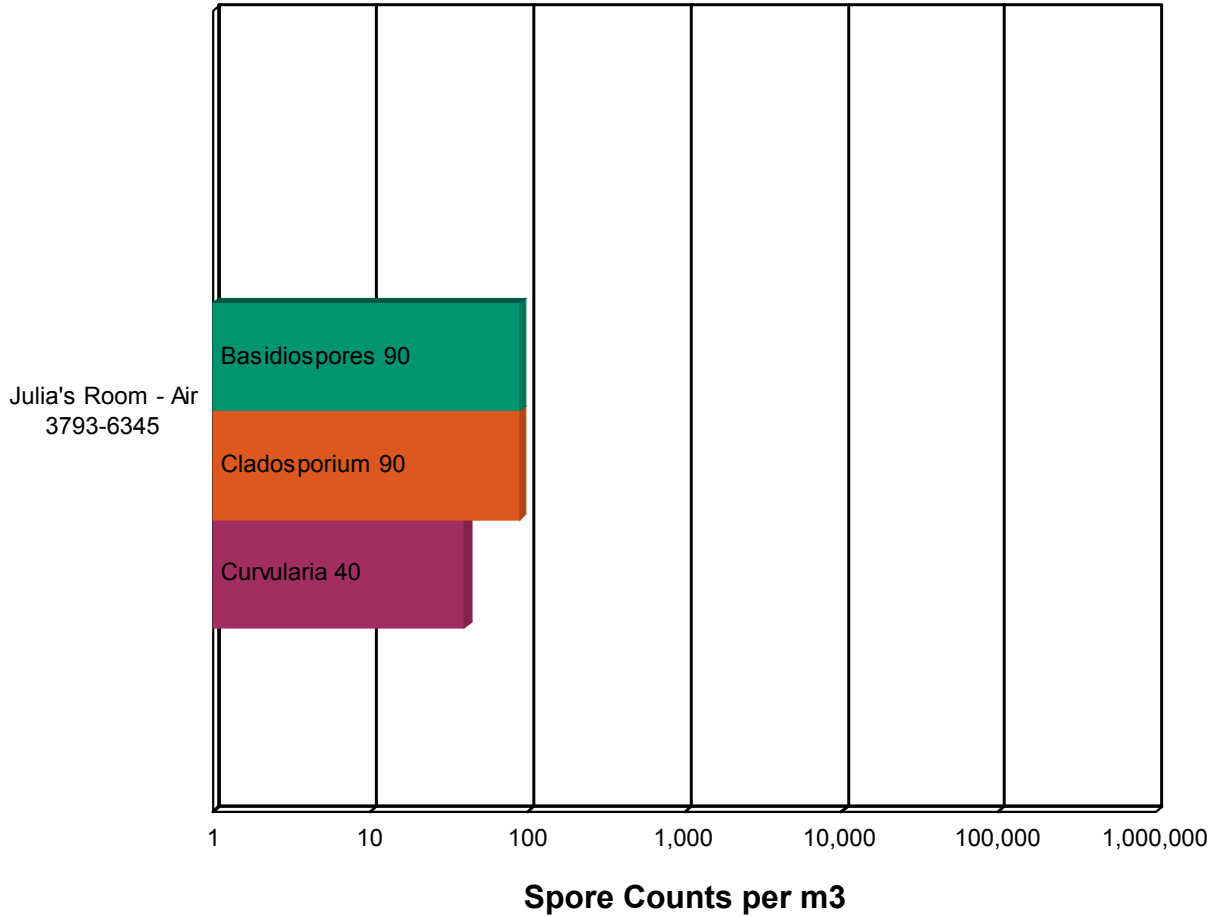
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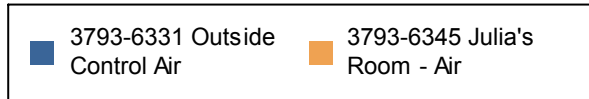
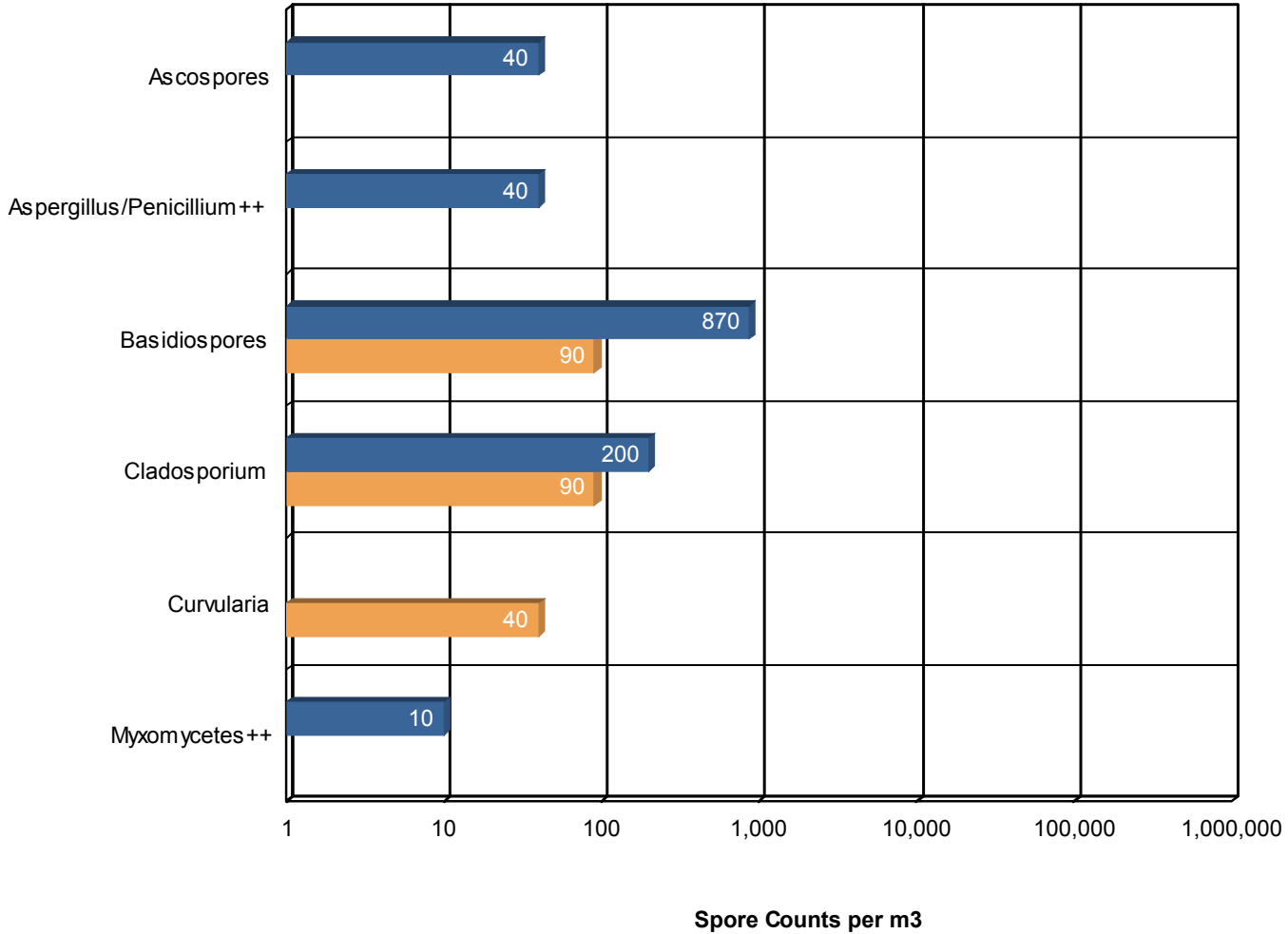
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## Background Comparison Chart



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EMSL Order: 062404039

Customer ID: [REDACTED]

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Received: 4/16/2024

Analyzed: 4/17/2024

Proj: [REDACTED]

Surface Contamination ASSESSMENT Report

™ Bulk Samples Based on Direct Microscopic Analysis MICRO-SOP-200

| Sample Information                                  | Sample Location | Surface Contamination Rating<br>(Referenced in IICRC S520) | Recommended Remedial Action<br>(Referenced in IICRC S520)  |
|---|-----------------|--|--|
| Lab Sample #: 062404039-0008<br>Client Sample ID: 1 | New Hole - 1    | Condition 1: Normal fungal ecology                         | <input checked="" type="checkbox"/> None Required          |
| Lab Sample #: 062404039-0009<br>Client Sample ID: 2 | New Hole -2     | Condition 3: Actual fungal growth                          | <input type="checkbox"/> 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.

Erica Sarmiento, Microbiology Lab Manager  
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA LAP, LLC-EMLAP Accredited #102344

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Customer ID: [REDACTED]

Collected: 4/16/2024

Received: 4/16/2024

Analyzed: 4/17/2024

Proj: [REDACTED]

Surface Contamination ASSESSMENT Report

™ Swab Samples Based on Direct Microscopic Analysis MICRO-SOP-200

| Sample Information  | Sample Location          | Surface Contamination Rating<br>(Referenced in IICRC S520) | Recommended Remedial Action<br>(Referenced in IICRC S520) |
|---|--------------------------|--|---|
| Lab Sample #: 062404039-0003<br>Client Sample ID: 2301366-4 | Inside Air Handler Panel | Condition 3: Actual fungal growth                          | Remediate to a Condition 1 status                         |
| Lab Sample #: 062404039-0004<br>Client Sample ID: 2301366-1 | Door to Air Handler      | Condition 3: Actual fungal growth                          | Remediate to a Condition 1 status                         |
| Lab Sample #: 062404039-0005<br>Client Sample ID: 2301366-2 | Upper Fin portion        | Condition 1: Normal fungal ecology                         | None Required   |
| Lab Sample #: 062404039-0006<br>Client Sample ID: 2301366-3 | Air Handler Side         | Condition 1: Normal fungal ecology                         | None Required   |

### Definitions (from IICRC S520 Standard)

Condition 1 (normal fungal ecology): an indoor environment that may have settled spores, fragments, or traces of actual growth.

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or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Carle Place, NY AIHA LAP, LLC-EMLAP Accredited #102344

Initial report from: 04/17/2024 15:59:40

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# EMSL Analytical, Inc.

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Attn: Keith Waller  
Royal Air Pros

EMSL Order: 062404039

Customer ID: [REDACTED]

Collected: 4/16/2024

Received: 4/16/2024

Analyzed: 4/17/2024

Proj: [REDACTED]

Surface Contamination ASSESSMENT Report

™ Tape Samples Based on Direct Microscopic Analysis MICRO-SOP-200

| Sample Information   | Sample Location    | Surface Contamination Rating<br>(Referenced in IICRC S520) | Recommended Remedial Action<br>(Referenced in IICRC S520) |
|--|--------------------|--|---|
| Lab Sample #: 062404039-0007<br>Client Sample ID: B3527259 | Julia's Room Floor | Condition 1: Normal fungal ecology                         | <input checked="" type="checkbox"/> None Required         |

### 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.

Erica Sarmiento, Microbiology Lab Manager  
or Other Approved Signatory

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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>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). Alternariol (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/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. |

## BASIDIOSPORES

|  |  |
|--|--|
| <b>Natural Habitat</b>                               | Forest floors. Lawns ·Plants (saprobies 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. |

## CLADOSPORIUM

|  |  |
|--|--|
| <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.  |

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

| <b>GANODERMA</b>                              |  |
|---|--|
| 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. <i>Aerobiologia</i> 16: 75-81.<br><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>MYXOMYCETES++</b>                          |  |
|---|--|
| 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.                       |

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| <b>PITHOMYCES++</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  |
| <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.                 |

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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/Biosafety/VG-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>

### 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)

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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

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### D. Limits of Liability

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