

February 7, 2014

Mr. Michael Howard  
Clay Community Schools  
1013 South Forest Avenue  
Brazil, Indiana 47834

**RE: INDOOR AIR QUALITY ASSESSMENT  
CLAY CITY JUNIOR/SENIOR HIGH SCHOOL, CLAY CITY, INDIANA  
ALLIANCE ENVIRONMENTAL GROUP PROJECT NUMBER NCL00101**

Dear Mr. Howard:

Thank you for employing our professional indoor air quality program services at the above referenced site. We appreciate the opportunity to serve Clay Community Schools.

This report addresses indoor air quality (IAQ) conditions in rooms 104/105, 213, 212 , 211, library, and band room.

### **AIR SAMPLES**

Non-viable air samples were taken in order to provide information regarding airborne particulates at the time of sampling. This type of inspection required the use of an air sampling pump equipped with aerodynamically designed Air-O-Cell cassettes in the in rooms 104/105, 213, 212 , 211, library, band room, and one outdoors for comparison of ambient levels of fungi. The Air-O-Cell cassettes capture all airborne particulates, viable or non-viable, and allows for a rapid identification of fungal spores. These samples were collected for five minutes at a flow rate of 15 liters per minute. A total volume of 75 liters of air was collected. Samples were collected on January 30, 2014.

In general, the process for evaluating Air-O-Cell results is to compare indoor air samples with an outdoor air sample to determine ambient levels of fungi in the environment. If the total indoor spore count (in spores/m<sup>3</sup>) of fungi is less than the total ambient spores/m<sup>3</sup> outdoors, the air quality is acceptable with regards to non-viable fungi. Also, if the types of fungi identified indoors are at lower levels than the concentrations outdoors, the air quality is acceptable with regards to non-viable fungi.

The laboratory reported the presence of *Aspergillus/Penicillium* and Rust in the indoor samples which were not identified in the outdoor sample. Elevated levels are typically associated with a water intrusion event.

The results of the airborne fungi sampling are tabulated below.

| <b>Sample #</b> | <b>Location</b> | <b>Total Spores/m<sup>3</sup></b> | <b>Fungi Exceeding Outdoor Levels</b> | <b>Fungi Not Found Outdoors</b>        |
|-----------------|-----------------|-----------------------------------|---------------------------------------|--|
| AOC-1           | room 104/105    | ND*                               | --                                    | <i>Aspergillus/Penicillium</i>         |
| AOC-2           | room 213        | 70                                | --                                    | <i>Aspergillus/Penicillium</i>         |
| AOC-3           | room 212        | 40                                | --                                    | <i>Aspergillus/Penicillium</i>         |
| AOC-4           | room 211        | 60                                | --                                    | <i>Aspergillus/Penicillium</i><br>Rust |
| AOC-5           | library         | 80                                | --                                    | <i>Aspergillus/Penicillium</i>         |
| AOC-6           | band room       | 310                               | --                                    | <i>Aspergillus/Penicillium</i>         |
| AOC-6           | outside         | 1,480                             | --                                    | --                                     |

\* None Detected

*Aspergillus* is found in plant debris and soil. *Aspergillus* may cause allergic bronchopulmonary aspergillosis in individuals suffering from asthma and cystic fibrosis, and may cause sinusitis in some individuals.

*Penicillium* is a widespread fungus found in soil, decaying vegetation and air. *Penicillium* may cause infections in immunocompromised individuals, and can cause Type I ("hay fever") and Type III (hypersensitive) allergic reactions in susceptible individuals.

*Myxomycetes* is commonly found on decaying wood and vegetation. *Myxomycetes* is a Type I allergen which may cause reactions ("hay fever") in sensitive individuals.

Rust is a common plant pathogen. Rust is a type I allergen.

The presence of fungal spores at these levels is typical of the indoor environment. The presence of a single spore of *Aspergillus/Penicillium* and Rust is considered background level and is not significant.

### **SURFACE SAMPLES**

No visible mold growth was observed in any classrooms. However, water intrusion was either reported by teachers or observed in the band room and rooms 104/105, 213, 212, and 211. A surface sample was collected from each of these classrooms. The swab surface samples were collected using Healthlink Transporter sterile transport swabs.

The particles which adhere to the samplers are then evaluated for the presence of fungal spores, fruiting structures and other particulate matter. The laboratory reports the type of particles present on the slide (based on visual identification) and the relative particle frequency. The particle frequency is reported in four categories: rare (1 to 10), low (10 to 100), medium (101 to 1,000) and high (greater than 1,000).

Fungi present in the rare to low category, with no *Stachybotrys* present, are considered to be acceptable. The presence of hyphae or fruiting structures associated with specific spores is an indication of active fungal growth. The laboratory analysis of the swab sample is as follows:

| <b>Sample #</b> | <b>Sampling Location</b>   | <b>Fungal Type</b>                                    | <b>Category</b> | <b>Growth?</b> |
|-----------------|----------------------------|---|-----------------|----------------|
| S-01            | room 104/105 file cabinet  | <i>Alternaria</i><br><i>Aspergillus/Penicillium</i>   | rare<br>low     | no<br>no       |
| S-02            | room 213 top window        | <i>Cladosporium</i><br><i>Epicoccum</i>               | rare<br>rare    | no<br>no       |
| S-03            | room 212 window frame      | <i>Aspergillus/Penicillium</i><br><i>Cladosporium</i> | rare<br>rare    | no<br>no       |
| S-04            | room 211 block window sill | <i>Cladosporium</i>                                   | rare            | no             |
| TL-01           | room 104/105               | <i>Aspergillus/Penicillium</i>                        | rare            | no             |
| TL-02           | band room                  | <i>Aspergillus/Penicillium</i>                        | high            | no             |

**GENERAL AIR QUALITY**

Data for general indoor air quality parameters [temperature, relative humidity, carbon dioxide (CO<sub>2</sub>) and carbon monoxide (CO)], was acquired using an Alnor indoor air quality meter. General indoor air quality data is summarized in the following table:

| <b>Location</b>   | <b>Temp (°F)</b> | <b>RH (%)</b> | <b>CO<sub>2</sub> (ppm)</b> | <b>CO (ppm)</b> |
|-------------------|------------------|---------------|-----------------------------|-----------------|
| room 104/105      | 70.2             | 22.5          | 1030                        | 0.8             |
| room 213          | 69.3             | 16.0          | 709                         | 0.9             |
| room 212          | 71.9             | 12.1          | 556                         | 0.8             |
| room 211          | 70.5             | 11.6          | 593                         | 0.7             |
| library           | 73.4             | 11.7          | 561                         | 0.9             |
| band room         | 71.9             | 13.9          | 605                         | 0.9             |
| outside           | 37.3             | 20.5          | 404                         | 0.7             |
| regulatory limits | 68 - 78          | less than 65  | less than outside + 700     | less than 50    |

The temperature, relative humidity and carbon dioxide levels recorded in the classrooms were within the requirements of 410 IAC 33. Carbon monoxide was below the OSHA permissible exposure limit.

**RECOMMENDATIONS**

Based on the results of laboratory analysis and conditions observed in the school, Alliance recommends the following:

1. The carpet and mastic in the band room should be removed. The concrete floor should be dried. Once complete new carpet can be applied. The water intrusion from the exterior door needs to be addressed prior to the completion of the carpet replacement.
2. Although no issues were observed or reported by the laboratory in room 104/105, based on the discussions with the teachers in that room, water intrusion does occur. If water intrusions continue mold growth is likely to occur.

Thank you for the opportunity to assist you with indoor air quality needs.

Sincerely,

Alliance Environmental Group

A handwritten signature in blue ink, appearing to read 'Jeffrey Rechten', with a long horizontal flourish extending to the right.

Jeffrey Rechten  
Project Manager

Attachments



# EMSL Analytical, Inc.

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 Phone/Fax: (317) 803-2997 / (317) 803-3047  
<http://www.EMSL.com> / [indianapolislab@emsl.com](mailto:indianapolislab@emsl.com)

Order ID: 161401298  
 Customer ID: ALLI65  
 Customer PO:  
 Project ID:

**Attn:** Jeff Rehtin  
 Alliance Environmental Group, Inc.  
 5340 Commerce Circle  
 Suite E  
 Indianapolis, IN 46237

**Phone:** (317) 865-3400  
**Fax:** (317) 865-3401  
**Collected:** 01/30/2014  
**Received:** 01/31/2014  
**Analyzed:** 01/31/2014

**Proj:** NCL00101

**Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)**

| Lab Sample Number:        | 161401298-0001 |                      |            | 161401298-0002 |                      |            | 161401298-0003 |                      |            |
|---------------------------|----------------|----------------------|------------|----------------|----------------------|------------|----------------|----------------------|------------|
| Client Sample ID:         | AOC-1          |                      |            | AOC-2          |                      |            | AOC-3          |                      |            |
| Volume (L):               | 75             |                      |            | 75             |                      |            | 75             |                      |            |
| Sample Location:          | Room 104/105   |                      |            | Rm 213         |                      |            | Rm 212         |                      |            |
| 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                | -              | -                    | -          | 1*             | 10*                  | 14.3       | -              | -                    | -          |
| Ascospores                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Aspergillus/Penicillium   | -              | -                    | -          | 1*             | 10*                  | 14.3       | -              | -                    | -          |
| Basidiospores             | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Bipolaris++               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Chaetomium                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Cladosporium              | -              | -                    | -          | -              | -                    | -          | 1              | 40                   | 100        |
| Curvularia                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Epicoccum                 | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Fusarium                  | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ganoderma                 | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Myxomycetes++             | -              | -                    | -          | 1              | 40                   | 57.1       | -              | -                    | -          |
| Pithomyces                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Rust                      | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Scopulariopsis            | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Stachybotrys              | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Torula                    | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ulocladium                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Unidentifiable Spores     | -              | -                    | -          | 1*             | 10*                  | 14.3       | -              | -                    | -          |
| Zygomycetes               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| <b>Total Fungi</b>        | -              | <b>None Detected</b> | -          | <b>4</b>       | <b>70</b>            | <b>100</b> | <b>1</b>       | <b>40</b>            | <b>100</b> |
| Hyphal Fragment           | -              | -                    | -          | -              | -                    | -          | 1*             | 10*                  | 25         |
| Insect Fragment           | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pollen                    | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Analyt. Sensitivity 600x  | -              | 42                   | -          | -              | 42                   | -          | -              | 42                   | -          |
| Analyt. Sensitivity 300x  | -              | 13*                  | -          | -              | 13*                  | -          | -              | 13*                  | -          |
| Skin Fragments (1-4)      | -              | 1                    | -          | -              | 1                    | -          | -              | 1                    | -          |
| Fibrous Particulate (1-4) | -              | 1                    | -          | -              | 1                    | -          | -              | 1                    | -          |
| Background (1-5)          | -              | 1                    | -          | -              | 1                    | -          | -              | 1                    | -          |

Bipolaris++ = Bipolaris/Drechslera/Exserohilum  
 Myxomycetes++ = Myxomycetes/Periconia/Smut

*Andrea Brooke*

Andrea Brooke, Microbiology Lab Manager  
 or Other Approved Signatory

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

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. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--EMLAP 157245

Initial report from: 01/31/2014 14:59:31

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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**Proj:** NCL00101

**Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)**

| Lab Sample Number:        | 161401298-0004 |                      |            | 161401298-0005 |                      |            | 161401298-0006 |                      |            |
|---------------------------|----------------|----------------------|------------|----------------|----------------------|------------|----------------|----------------------|------------|
| Client Sample ID:         | AOC-4          |                      |            | AOC-5          |                      |            | AOC-6          |                      |            |
| Volume (L):               | 75             |                      |            | 75             |                      |            | 75             |                      |            |
| Sample Location:          | Rm 211         |                      |            | Library        |                      |            | Band Room      |                      |            |
| 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                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ascospores                | -              | -                    | -          | 1              | 40                   | 50         | -              | -                    | -          |
| Aspergillus/Penicillium   | 1              | 40                   | 66.7       | 1              | 40                   | 50         | 6              | 300                  | 96.8       |
| Basidiospores             | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Bipolaris++               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Chaetomium                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Cladosporium              | 1*             | 10*                  | 16.7       | -              | -                    | -          | 1*             | 10*                  | 3.2        |
| Curvularia                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Epicoccum                 | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Fusarium                  | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ganoderma                 | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Myxomycetes++             | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pithomyces                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Rust                      | 1*             | 10*                  | 16.7       | -              | -                    | -          | -              | -                    | -          |
| Scopulariopsis            | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Stachybotrys              | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Torula                    | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Ulocladium                | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Unidentifiable Spores     | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Zygomycetes               | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| <b>Total Fungi</b>        | <b>3</b>       | <b>60</b>            | <b>100</b> | <b>2</b>       | <b>80</b>            | <b>100</b> | <b>7</b>       | <b>310</b>           | <b>100</b> |
| Hyphal Fragment           | -              | -                    | -          | -              | -                    | -          | 1              | 40                   | 12.9       |
| Insect Fragment           | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Pollen                    | -              | -                    | -          | -              | -                    | -          | -              | -                    | -          |
| Analyt. Sensitivity 600x  | -              | 42                   | -          | -              | 42                   | -          | -              | 42                   | -          |
| Analyt. Sensitivity 300x  | -              | 13*                  | -          | -              | 13*                  | -          | -              | 13*                  | -          |
| Skin Fragments (1-4)      | -              | 1                    | -          | -              | 1                    | -          | -              | 2                    | -          |
| Fibrous Particulate (1-4) | -              | 1                    | -          | -              | 1                    | -          | -              | 1                    | -          |
| Background (1-5)          | -              | 1                    | -          | -              | 1                    | -          | -              | 2                    | -          |

Bipolaris++ = Bipolaris/Drechslera/Exserohilum  
 Myxomycetes++ = Myxomycetes/Periconia/Smut

*Andrea Brooke*

Andrea Brooke, Microbiology Lab Manager  
 or Other Approved Signatory

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

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. Samples received in good condition unless otherwise noted.

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Initial report from: 01/31/2014 14:59:31

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)

FUNGI  
 BACTERIA

**Alliance**

THE ENVIRONMENTAL SOLUTION

Job Name Clay Community Schools Date 1/30/14  
 Location Clay City H.S. Job Number NC100101  
 Collected By Jeff Rechtin Contractor \_\_\_\_\_

| Sample Number | Pump I.D. | Sample Location | Sample Period |      | Calibration Rate |      | Volume Liters | Colonies | CFU /M <sup>3</sup> |
|---------------|-----------|-----------------|---------------|------|------------------|------|---------------|----------|---------------------|
|               |           |                 | Start         | Stop | Start            | Stop |               |          |                     |
| AOC-1         | BIO       | Rm 104/105      | 315           | 320  | 5                | BIO  | 4575          |          |                     |
| AOC-2         | BIO       | Rm 213          | 330           | 341  | 5                | BIO  | 75            |          |                     |
| AOC-3         | BIO       | Rm 212          | 355           | 400  | 5                | BIO  | 75            |          |                     |
| AOC-4         | BIO       | Rm 211          | 417           | 422  | 5                | BIO  | 75            |          |                     |
| AOC-5         | BIO       | Library         | 437           | 442  | 5                | BIO  | 75            |          |                     |
| AOC-6         | BIO       | BAND ROOM       | 459           | 504  | 5                | BIO  | 75            |          |                     |
|               |           |                 |               |      |                  |      |               |          |                     |
|               |           |                 |               |      |                  |      |               |          |                     |
|               |           |                 |               |      |                  |      |               |          |                     |

**CHAIN OF CUSTODY**

SAMPLE BY: Jeff Rechtin  
 DATE: 1/30/14  
 SIGNATURE: [Signature]  
 DATE SHIPPED: 1/30/14

RECEIVED BY: [Signature]  
 DATE: 1-31-14 800  
 SIGNATURE: [Signature]  
 SHIPPED VIA: \_\_\_\_\_

RECORDED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_ LOG#: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 SHIPPED TO: \_\_\_\_\_



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Order ID: 161401298  
Customer ID: ALLI65  
Customer PO:  
Project ID:

**Attn:** Jeff Rechten      Phone: (317) 865-3400  
Alliance Environmental Group, Inc.      Fax: (317) 865-3401  
5340 Commerce Circle      Collected: 01/30/2014  
Suite E      Received: 01/31/2014  
Indianapolis, IN 46237      Analyzed: 01/31/2014

**Proj:** NCL00101

### Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method: M041)

| Lab Sample Number | Client Sample ID | Location                 | Fungal Identification   | Category |
|-------------------|------------------|--------------------------|-------------------------|----------|
| 161401298-0007    | S-01             | Rm 104-105 File Cabinet  | Alternaria              | Rare     |
|                   |                  |                          | Aspergillus/Penicillium | Low      |
|                   |                  |                          | Fibrous Particulate     | Low      |
|                   |                  |                          | Hyphal Fragment         | Rare     |
| 161401298-0008    | S-02             | Rm 213 Top Window        | Cladosporium            | Rare     |
|                   |                  |                          | Epicoccum               | Rare     |
|                   |                  |                          | Fibrous Particulate     | Rare     |
| 161401298-0009    | S-03             | Rm 212 Window Frame      | Aspergillus/Penicillium | Rare     |
|                   |                  |                          | Cladosporium            | Rare     |
|                   |                  |                          | Fibrous Particulate     | Rare     |
| 161401298-0010    | S-04             | Rm 211 Block Window Sill | Cladosporium            | Rare     |
|                   |                  |                          | Fibrous Particulate     | Rare     |

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

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum    Myxomycetes++ = Myxomycetes/Periconia/Smut  
\* = Sample contains fruiting structures and/or hyphae associated with the spores.

| Category | Count/area Analyzed |
|----------|---------------------|
| Rare     | 1 to 10             |
| Low      | 11 to 100           |
| Medium   | 101 to 1000         |
| High     | > 1000              |

Andrea Brooke, Microbiology Lab Manager  
or Other Approved Signatory

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AIHA-LAP, LLC--EMLAP Accredited #157245

Initial report from: 01/31/2014 14:48:56

For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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Order ID: 161401298  
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Project ID:

**Attn:** Jeff Rechten Phone: (317) 865-3400  
Alliance Environmental Group, Inc. Fax: (317) 865-3401  
5340 Commerce Circle Collected: 01/30/2014  
Suite E Received: 01/31/2014  
Indianapolis, IN 46237 Analyzed: 01/31/2014  
**Proj:** NCL00101

## Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Tape Samples (EMSL Method: M041)

| Lab Sample Number | Client Sample ID | Location         | Fungal Identification   | Category |
|-------------------|------------------|------------------|-------------------------|----------|
| 161401298-0011    | TL-01            | Rm 104-105 Floor | Aspergillus/Penicillium | Rare     |
|                   |                  |                  | Fibrous Particulate     | Low      |
|                   |                  |                  | Hyphal Fragment         | Low      |
|                   |                  |                  | Insect Fragment         | Low      |
| 161401298-0012    | TL-02            | Band Room        | Aspergillus/Penicillium | High     |
|                   |                  |                  | Fibrous Particulate     | Low      |
|                   |                  |                  | Hyphal Fragment         | Low      |
|                   |                  |                  | Insect Fragment         | Low      |

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

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut  
\* = Sample contains fruiting structures and/or hyphae associated with the spores.

| Category | Count/area Analyzed |
|----------|---------------------|
| Rare     | 1 to 10             |
| Low      | 11 to 100           |
| Medium   | 101 to 1000         |
| High     | > 1000              |

Andrea Brooke, Microbiology Lab Manager  
or Other Approved Signatory

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For Information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)

