

To:

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 ALL-TECH Environmental  
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**EMC LAB REPORT NUMBER:** 31656  
**Job/Project Name:** DSS St. Andrews School  
**Job/Project No:** 13045 **No. of Samples:** 10  
**Sample Type:** Air-O-Cell **Date Received:** Mar 18/11  
**Analysis Method(s):** Fungal Spore Counting  
**Date Analyzed:** Mar 18/11 **Date Reported:** Mar 18/11  
**Analyst:** Lalita Sarlashkar, Ph.D., *Microbiologist*  
**Approved By:** Fajun Chen, Ph.D., *Principal Mycologist*

Client's Sample ID	16437299			16435931			16437349			16437321			16437413		
EMC Lab Sample No.	158033			158034			158035			158036			158037		
Sampling Date	Mar 17/11			Mar 17/11			Mar 17/11			Mar 17/11			Mar 17/11		
Description/Location	Room 220			Room 228			Room 224			Room 210			Room 216		
Air Volume (m <sup>3</sup> )	0.150			0.150			0.150			0.150			0.150		
Fungal Spores	raw ct.	%	spores/m <sup>3</sup>	raw ct.	%	spores/m <sup>3</sup>	raw ct.	%	spores/m <sup>3</sup>	raw ct.	%	spores/m <sup>3</sup>	raw ct.	%	spores/m <sup>3</sup>
<i>Alternaria</i>															
<i>Arthrinium</i>															
Ascospores															
<i>Aspergillus/Penicillium</i> type	12	67	80	8	57	53	7	58	47	6	60	40	16	84	107
Basidiospores															
<i>Cercospora</i>															
<i>Chaetomium</i>															
<i>Cladosporium</i>	4	22	27	2	14	13	3	25	20	1	10	7	2	11	13
Colorless	2	11	13	3	21	20	2	17	13	3	30	20	1	5	7
<i>Curvularia</i>															
<i>Drechslera/Bipolaris</i> group															
<i>Epicoccum</i>				1	7	7									
<i>Fusarium</i>															
<i>Nigrospora</i>															
<i>Oidium</i>															
<i>Pithomyces</i>															
Rusts															
Smuts, <i>Periconia</i> , <i>Myxomycetes</i>															
<i>Stachybotrys</i>															
<i>Ulocladium</i>															
Unidentified spores															
Number of spores/sample	18			14			12			10			19		
Fungal fragments (0-3 +)		0+			0+			0+			0+			0+	
Non-fungal material (0-3 +)		2+			2+			2+			2+			2+	
<b>TOTAL SPORES/M<sup>3</sup></b>		<b>120</b>			<b>93</b>			<b>80</b>			<b>67</b>			<b>127</b>	

Note:

- Aspergillus/Penicillium* type spores may include those of *Acremonium*, *Paecilomyces*, *Trichoderma* and others.
- A scale of 0+ to 3+ (indicating increasing amount) is used to rate abundance of fungal fragments and non-fungal material, with 3+ indicating the most abundance.
- The presence of a large amount of dust debris may obscure some spores to be counted. Spore counts from samples with 3+ non-fungal material and/or 3+ fungal material may be treated as under-counts.
- Unidentified spores are those lacking distinguishable characteristics for correct identification. Colorless are colorless spores lacking distinguishable characteristics.
- These results are only related to the sample(s) analyzed.

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Client's Job/Project No.: 13045

Analyst: Lalita Sarlashkar, Ph.D., Microbiologist

Client's Sample ID	16437169			16437378			16437395			16437392			16437341		
EMC Lab Sample No.	158038			158039			158040			158041			158042		
Sampling Date	Mar 17/11			Mar 17/11			Mar 17/11			Mar 17/11			Mar 17/11		
Description/Location	Room 207			Room 118			Room 121			Room 123			Exterior		
Air Volume (m <sup>3</sup> )	0.150			0.150			0.150			0.150			0.150		
Fungal Spores	raw ct.	%	spores/m <sup>3</sup>	raw ct.	%	spores/m <sup>3</sup>	raw ct.	%	spores/m <sup>3</sup>	raw ct.	%	spores/m <sup>3</sup>	raw ct.	%	spores/m <sup>3</sup>
<i>Alternaria</i>															
<i>Arthrinium</i>															
Ascospores															
<i>Aspergillus/Penicillium</i> type	1	25	7	4	57	27	7	78	47	6	75	40	8	53	53
Basidiospores															
<i>Cercospora</i>															
<i>Chaetomium</i>															
<i>Cladosporium</i>	2	50	13	1	14	7	1	11	7	1	13	7	5	33	33
Colorless	1	25	7	2	29	13	1	11	7	1	13	7	2	13	13
<i>Curvularia</i>															
<i>Drechslera/Bipolaris</i> group															
<i>Epicoccum</i>															
<i>Fusarium</i>															
<i>Nigrospora</i>															
<i>Oidium</i>															
<i>Pithomyces</i>															
Rusts															
Smuts, <i>Periconia</i> , Myxomycetes															
<i>Stachybotrys</i>															
<i>Ulocladium</i>															
Unidentified spores															
Number of spores/sample	4			7			9			8			15		
Fungal fragments (0-3 +)		0+			0+			0+			0+			0+	
Non-fungal material (0-3 +)		2+			2+			2+			2+			2+	
<b>TOTAL SPORES/M<sup>3</sup></b>		<b>27</b>			<b>47</b>			<b>60</b>			<b>53</b>			<b>100</b>	

**Note:**

1. *Aspergillus/Penicillium* type spores may include those of *Acremonium*, *Paecilomyces*, *Trichoderma* and others.
2. A scale of 0+ to 3+ (indicating increasing amount) is used to rate abundance of fungal fragments and non-fungal material, with 3+ indicating the most abundance.
3. The presence of a large amount of dust debris may obscure some spores to be counted. Spore counts from samples with 3+ non-fungal material and/or 3+ fungal material may be treated as under-counts.
4. Unidentified spores are those lacking distinguishable characteristics for correct identification. Colorless are colorless spores lacking distinguishable characteristics.
5. These results are only related to the sample(s) analyzed.