



The Scott Lawson Group, Ltd.
Environmental, Health & Safety Consultants

December 18, 2012

Mr. Peter Barbuto, Maintenance Supervisor
School Administrative Unit No. 15
Hooksett School District
90 Farmer Road
Hooksett, New Hampshire 03106

Re: Background Air Sampling – Auburn Village School
SLGL File Number 12-1616

Dear Mr. Barbuto:

On November 29, 2012, at the request of School Administrative Unit No. 15 (SAU #15), *The Scott Lawson Group, Ltd. (SLGL)* performed background air sampling at the Auburn Village School located at 11 Eaton Road in Auburn, New Hampshire. The background sampling was requested to document current ambient conditions as part of SAU #15's on-going review of facility issues that may impact indoor air quality. The sampling in representative areas of the school, will help the SAU better understand the current status of air quality in the building(s), by providing information that identifies potential and existing problems areas. SAU #15 has made upgrades to the classrooms interior finishes, roofing, and HVAC system(s) since previous rounds of testing.

SLGL collected ambient air samples for airborne fungal spores in each of the preselected areas, with analytical blanks and outdoor air samples collected for quality control purposes. To help evaluate indoor air quality, direct-reading instruments were used to collect spot readings for Carbon monoxide (CO), Carbon dioxide (CO₂), temperature, and Relative Humidity (RH). This round of readings have been compared to previous sampling conducted in November 2011. It should also be noted that due to an elevated reading in one (1) area on November 29, additional follow-up testing was performed on December 4 and December 12.

The following section summarize's the analytical results obtained during the sampling at Auburn Village School. Tables are provided that compare fungal spore counts and Carbon dioxide readings from this round of testing to those collected in December 2011.

Air Samples - Total Spore Counts with Predominant Genus Identification:

Fungus spores are found in ambient air most times of the year, from spring through fall, with numbers declining in the winter months. The term “genus” refers to the particular “family” of Fungi, and there are individual species within each genus. All Fungi are considered to be potentially allergenic.

Each sample was collected by drawing air through an Air-O-Cell® sampling cassette. Analysis of the Air-O-Cell cassettes (with count and identification by Predominant Genus) was used to determine total airborne viable and non-viable Fungi spores. All Fungi are considered to be potentially allergenic. (The term “genus” refers to the particular “family” of Fungi or Bacteria, and there are individual species within each genus.) Each sample was collected by drawing air through an Air-O-Cell® sampling cassette at a flow rate of approximately fifteen liters per minute for five minutes. Sampling equipment was calibrated prior to and following sampling. Upon completion of each sample, the cassette was sealed, issued a unique sample identification number, and its location documented.

- Outdoor air samples collected on both November 29 and December 12 measured ambient fungal spore concentrations at 107 spores per cubic meter of air (107 Ct/m³). The low counts are most likely due to the colder weather conditions, which lower outdoor spore counts.

Carbon dioxide:

Studies indicate that CO₂ is an excellent surrogate indicator of indoor air quality. Since CO₂ is given off by humans when exhaling, its levels in the air provide a good indication of the quality of air circulation and how effectively the ventilation system, if present, is diluting and removing pollutants from the air. It must be noted that it is (generally) not necessarily the concentration of CO₂ itself that is of concern in this type of setting, but rather it is the levels of CO₂ exceeding 1,000 parts per million (1,000 ppm), which are indicative of inadequate fresh/outdoor air introduction -- or under-ventilation.

TABLE I - Portable Classrooms P-3 and P-4

Classroom	Total fungal Spore Count (Count/m³)	Predominant Genus(s) 11/29/12	Previous CO₂ (ppm)	11/29/12 - CO₂ (ppm)
P-3 (11/29/12)	3,360*	<i>Aspergillus/Penicillium</i> -like (2,880)*	1,510	1014
P-3 (12/04/12)	160	Basidiospores (53) <i>Aspergillus/Penicillium</i> -like (53)	1,014	980
P-3 (12/12/12)	533	<i>Aspergillus/Penicillium</i> -like (213)	980	1060
P-4	640	Myxomycetes/Periconial smuts (213)	Not Sampled	840

Note:

* Sample on 11/29/12 was collected by students backpacks, elevated count was probably from moldy fruit and/or food in backpacks, SLGL could not find any other contributing factors. *Aspergillus/Penicillium*-like Fungi are often from decomposing fruits and vegetation. As noted above, an additional two (2) rounds of sampling was collected to confirm normal spore counts within Classroom P-3.

TABLE II - Portable Classrooms P-5 and P-6

Classroom	Total fungal Spore Count (Count/m³)	Predominant Genus(s)	Previous CO₂ (ppm)	11/29/12 - CO₂ (ppm)
P-5 11/15/11	2,293	<i>Aspergillus/Penicillium</i> -like (1,120)	1,512	-
P-5 1/3/12	None Detected	None Detected	665	-
P-5 11/29/12	427	Curvularia (160)	(see above)	996
P-6 1/3/12	53	Basidiospores (53)	631	(see below)
P-6 11/29/12	533	Myxomycetes/Periconial smuts (213)	631	909

TABLE III - Modular Classroom M-1 and Corridor O/S M-1

Classroom	Total fungal Spore Count (Count/m³)	Predominant Genus(s) 11/11 11/12	Previous - CO (ppm)	11/29/12 - CO₂ (PPM)
M-1 11/15/11	587	<i>Aspergillus/Penicillium</i> -like (320)	1,590	-
M-1* 12/2/11	2,880	Myxomycetes/ Periconialsmuts (213)	1,920	-
M-1** 1/3/12	107	Myxomycetes/Periconial smuts (213)	1,309	-
M-1 11/29/12	693	<i>Cladosporium</i> (213)	(see above)	1038
Corridor, Between M-1 & 102/104, 12/2/11	427	Basidiospores (107)	1,313	-
Corridor, Between M-1 & 102/104, 11/29/12	1,387	Myxomycetes/Periconial smuts (533)	(see above)	913

Notes:

* Followup testing in Classroom M-1 was performed on December 2, 2011, in response to staff complaints of a “musty” odor (SLGL File #11-1044).

** Followup testing in Classroom M-1 was performed on January 3, 2012, after corrective measures (SLGL File #11-1044).

TABLE IV - Classroom #205

Classroom	11/5/11 Total fungal Spore Count (Count/m³)	12/12/12 Total fungal Spore Count (Count/m³)	Predominant Genus(s) 11/29/12	11/5/11 - CO₂ (ppm)	11/29/12 - CO₂ (ppm)
205*	320	213	<i>Aspergillus/Penicillium</i> -like (107)	1,415	790

Note: * As requested SLGL collected a followup sample in Room 205 on 12/12/12. The classroom was not occupied at the time, and no indicators of microbial growth were observed.

Relative Humidity and Temperature:

For an environment in which occupants are engaged in light, primarily sedentary activity, the most recent ANSI/ASHRAE standard recommends that RH be controlled to a range of thirty to sixty percent (30% to 60%). These are the upper and lower limits based on considerations of dry skin, eye irritation, respiratory health, microbial growth, and moisture-related phenomena.

The ANSI/ASHRAE standard ventilation recommends that an optimum winter operative temperature of 71°F be maintained during the winter months, with a comfort range of 68 degrees Fahrenheit (68°F) to 75°F. During the summer, it is recommended that an optimum operative temperature of 76°F be maintained, with a comfort range of 73°F to 79°F. The temperature should be set toward the lower end in the winter when people wear heavier clothing, and toward the upper end in the summer when people wear lighter clothing. (Measurements were made using a TSI Q-TRAK, a direct-reading instrument.)

- Ambient room temperatures measured 69°F to 75°F, with an RH of 19%-25%.

Carbon monoxide:

CO is not a natural component of indoor air, and is considered an indoor air pollutant. Overexposure to CO can deprive the body of Oxygen-carrying hemoglobin, and cause immediate or chronic health effects to those individuals exposed to elevated levels.

- No CO was detected in any of the sampled areas.

Air sampling results indicate that fungal spore concentrations in the selected areas are generally low, and do not represent a significant concern to building occupants. CO₂ levels were generally within recommended levels, based on current use.

Based on the sampling results and observations while on-site, *SLGL* makes the following general recommendations:

1. In accordance with Federal and State of New Hampshire rules, provide employees with access to air monitoring data and the requisite record keeping be performed.
2. Monitor air handling units and retest in the areas with the air handling systems aren't fully operating to determine if they are adequate for controlling odors and potential contaminants. Examine air-handling systems to determine if additional outdoor air can be introduced to reduce CO₂ levels.
3. Continue to monitor the environment for potential air quality issues. For example, where water has leaked onto ceiling tiles, ensure leaks or damages are repaired in a timely manner.

Thank you for utilizing the services of *The Scott Lawson Group, Ltd.* We enjoyed working with you and welcome the opportunity to work with you on future projects. We trust that you will find everything in order; however, should you have any questions or comments, please feel free to contact me at your earliest convenience.

Sincerely,

The Scott Lawson Group, Ltd.

A handwritten signature in black ink that reads "Stephen McPherson" with a stylized flourish at the end.

Stephen McPherson
Senior Safety & Health Professional
Member Indoor Air Quality Association (#17501)
Associated Member ACGIH (305730-00)

Enclosures

WARRANTY

The conclusions and recommendations contained in this report are based on information available to *SLGL* as of December 12, 2012. *SLGL* provides no warranties on information provided by third parties and contained herein. Data compiled were in accordance with *SLGL's* approved scope of services and should not be construed beyond their limitations. Any interpretations or use of this report other than those expressed herein are not warranted. The use, partial use, or duplication of this report without the expressed written consent of *The Scott Lawson Group, Ltd.*, is strictly prohibited.

APPENDIX A1

ANALYTICAL RESULTS

November 29, 2012



Analytical Results

Lab Number:	302240	302241	302242
Sample Identification:	112912-1616-A01, Area, classroom #P-4	112912-1616-A02, Area, classroom #P-3	112912-1616-A03, Area, classroom #P-5
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell
Debris Rating:	3	3	3
Air Volume (L):	75.0	75.0	75.0
Minutes:	5	5	5
Date Analyzed:	December 3, 2012	December 3, 2012	December 3, 2012

Mold/Fungi Type	Raw Count	Count/m ³	Raw Count	Count/m ³	Raw Count	Count/m ³
<i>Alternaria</i>						
Ascospores	1	53				
** <i>Aspergillus/Penicillium</i> -like			54	2,880	1	53
Basidiospores	2	107	1	53		
<i>Bipolaris/Drechslera</i> -like						
<i>Botrytis</i>						
<i>Chaetomium</i>						
<i>Cladosporium</i>						
<i>Curvularia</i>	2	107	4	213	3	160
<i>Epicoccum</i>						
<i>Fusarium</i>						
Myxomycetes/ <i>Periconia</i> /smuts	4	213	3	160	2	107
<i>Nigrospora</i>						
<i>Oidium/Erysiphe/Peronospora</i>						
<i>Phoma</i>						
<i>Pithomyces</i>	1	53	1	53		
rusts	1	53				
<i>Spegazzinia</i>						
<i>Stachybotrys</i>						
<i>Stemphylium</i>						
<i>Torula</i>						
<i>Ulocladium</i>						
unknown/unidentified						
hyphal fragments	1	53			2	107
Total fungal spores and fragments:	12	640	63	3,360	8	427
Limit of Detection:	1	53	1	53	1	53
Comments:						

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m³: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

***Aspergillus* and *Penicillium* spores (and others such as *Poecilomyces*) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Reviewed by: Helen M. Erzen

Approved By: Norman E. Fletcher
Norman Fletcher, Lab Manager



Analytical Results

Lab Number:	302243	302244	302245
Sample Identification:	112912-1616-A04, Area, classroom #P-6	112912-1616-A05, Area, outside building covered walkway between portable classrooms	112912-1616-A06, Area, classroom #M-1
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell
Debris Rating:	3	2	3
Air Volume (L):	75.0	75.0	75.0
Minutes:	5	5	5
Date Analyzed:	December 3, 2012	December 3, 2012	December 3, 2012

Mold/Fungi Type	Raw Count	Count/m ³	Raw Count	Count/m ³	Raw Count	Count/m ³
<i>Alternaria</i>						
Ascospores			2	107	1	53
** <i>Aspergillus/Penicillium</i> -like	1	53			3	160
Basidiospores					1	53
<i>Bipolaris/Drechslera</i> -like						
<i>Botrytis</i>						
<i>Chaetomium</i>						
<i>Cladosporium</i>					4	213
<i>Curvularia</i>	1	53				
<i>Epicoccum</i>						
<i>Fusarium</i>						
Mycomycetes/ <i>Periconia</i> /smuts	3	160				
<i>Nigrospora</i>						
<i>Oidium/Erysiphe/Peronospora</i>						
<i>Phoma</i>						
<i>Phthomyces</i>	1	53			1	53
rusts						
<i>Spegazzinia</i>						
<i>Stachybotrys</i>						
<i>Stemphylium</i>						
<i>Torula</i>						
<i>Ulocladium</i>						
unknown/unidentified	1	53			3	160
hyphal fragments	3	160				
Total fungal spores and fragments:	10	533	2	107	13	693
Limit of Detection:	1	53	1	53	1	53
Comments:						

TNTC: Too numerous to count
<: Less Than
>: Greater Than

Count/m³: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

** *Aspergillus* and *Penicillium* spores (and others such as *Poecilomyces*) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

- Debris Load of 1: <10% debris present. Counts not affected.
- Debris Load of 2: 11-25% debris present. Counts not affected.
- Debris Load of 3: 25-75% debris present. Counts may be underestimated.
- Debris Load of 4: 76-90% debris present. Counts underestimated.
- Debris Load of 5: >90% debris present. Counts could not be determined. sample overloaded.

Reviewed by: Helen H. Erzen

Approved By: Norman E. Fletcher

Norman Fletcher, Lab Manager



The Scott Lawson Group, Ltd.

Environmental, Health & Safety Consultants

Post Office Box 3304, Concord, NH 03302-3304

(603) 228-3610 / (800) 645-7674 / Fax (603) 228-3871

Client: SAU #15

90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 12-1616

Client Project: Auburn Village School

Report Date: December 3, 2012

Date Sampled: November 29, 2012

Date Received: November 29, 2012

Collected by: SMC

Analyzed by: NEF, #01040036



Analytical Results

Lab Number:	302246	302247
Sample Identification:	112912-1616-A07, Area, corridor outside classroom 102/104	112912-1616-A08, Blank
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell
Debris Rating:	3	1
Air Volume (L):	75.0	0.0
Minutes:	5	0
Date Analyzed:	December 3, 2012	December 3, 2012

Mold/Fungi Type	Raw Count	Count/m ³	Raw Count	Count/m ³
<i>Alternaria</i>				
Ascospores				
** <i>Aspergillus/Penicillium</i> -like	5	267		
Basidiospores	2	107		
<i>Bipolaris/Drechslera</i> -like				
<i>Botrytis</i>				
<i>Chaetomium</i>	1	53		
<i>Cladosporium</i>	1	53		
<i>Curvularia</i>	1	53		
<i>Epicoccum</i>				
<i>Fusarium</i>				
Myxomycetes/ <i>Periconia</i> /smuts	10	533		
<i>Nigrospora</i>				
<i>Oidium/Erysiphe/Peronospora</i>				
<i>Phoma</i>				
<i>Pithomyces</i>	2	107		
rusts				
<i>Spegazzinia</i>				
<i>Stachybotrys</i>				
<i>Stemphylium</i>				
<i>Torula</i>				
<i>Ulocladium</i>				
unknown/unidentified				
hyphal fragments	4	213		
Total fungal spores and fragments:	26	1,387	< 1	---
Limit of Detection:	1	53	1	---
Comments:			None detected	

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m³: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

** *Aspergillus* and *Penicillium* spores (and others such as *Poecilomyces*) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Reviewed by: Heleen H. Erzen

Approved By: Norman E. Fletcher

Norman Fletcher, Lab Manager



The Scott Lawson Group, Ltd.
Environmental, Health & Safety Consultants

20 Chenell Drive
Concord, New Hampshire 03301
Ph: (603) 228-3610, Fax: (603) 228-3871
www.sigl.com email: Lab@sigl.com

Turnaround Time (select one)
 3 hours* 6-8 hours* 24 hours* 48 hours* 72 hours*
 5 days 10 days Weekend Other: _____

*Not available for all tests. Schedule rush and weekend tests in advance.

Sample Matrix Type (select one)
 Air Bulk Soil Water, drinking or waste
 Aquous Oil Solid Wipe
 Agar (biostrip) Paint Swab Wipe composite
 Agar (plate) Sludge Tape Lift Other: _____

SLGL Lab #	Sample Identification	Analysis	Date Sampled	Time	Media/Container	Preservative	4°C	Swab/Wipe Area Units:	Air Volume (L)	Minutes
240	112912-1414-A01	Fungus CF + FD	11/29	4	ARG-0 Cell	---			75	5
241	A02								75	5
242	A03								75	5
243	A04								75	5
244	A05								75	5
245	A06								75	5
246	A07								75	5
247	A08								75	5

Submitter: SAUIS
 Client Project: Auburn Village School
 Client PO: School
 Sampled By: SMC
 email: SMC
 Comments: _____

SLGL Job #: 12-1616
 Samples received in good condition? Yes No

Submitting Co.: SAUIS
 Address: _____
 Attention: _____
 Phone: _____ Fax: _____
 Samples Shipped Via: FedEx UPS DHL US Mail Drop Box Drop Off Other
 Date/Time: 11/29/12 1500
 Received By: Debra M. Gagne
 Date/Time: 11/29/12 3:25 pm

A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

APPENDIX A2

ANALYTICAL RESULTS

December 4, 2012-Classroom P-3



The Scott Lawson Group, Ltd.

Environmental, Health & Safety Consultants

Post Office Box 3304, Concord, NH 03302-3304

(603) 228-3610 / (800) 645-7674 / Fax (603) 228-3871

Client: SAU #15

90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 12-1616

Client Project: Auburn Village School

Report Date: December 5, 2012

Date Sampled: December 4, 2012

Date Received: December 5, 2012

Collected by: SMC

Analyzed by: NEF, #01040036



Analytical Results

Table with 4 columns: Lab Number, Sample Identification, Analysis, Methodology, Sample Media, Debris Rating, Air Volume (L), Minutes, Date Analyzed.

Table with 7 columns: Mold/Fungi Type, Raw Count, Count/m³, and four empty columns.

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

** Aspergillus and Penicillium spores (and others such as Paecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Heleen H. Erzen

Reviewed by: _____

Norman E. Fletcher

Approved By: _____

Norman Fletcher, Lab Manager



The Scott Lawson Group, Ltd.
Environmental, Health & Safety Consultants

20 Chenell Drive
Concord, New Hampshire 03301
Ph: (603) 228-3610, Fax: (603) 228-3871
www.sigl.com email: Lab@sigl.com

Submitting Co.: **SAU 15**

SEGL Job #:

12-1616

Client Project:

Auburn U. High School

Client PO:

Turnaround Time (select one)

3 hours* 6-8 hours* 24 hours* 48 hours* 72 hours*
 5 days 10 days Weekend Other: _____

**Not available for all tests. Schedule rush and weekend tests in advance.*

Sample Matrix Type (select one)

Air Bulk Soil
 Aqueous Oil Solid
 Agar (biostrip) Paint Swab
 Agar (plate) Sludge Tape Lift

Water, drinking or waste
 Wipe
 Wipe composite
 Other: _____

Comments:

no blank per client

Attention:

Sampled By: **SMC**

Phone:

Fax:

email:

All samples on this form should be of the SAME matrix type. Use additional forms as needed.

Samples received in good condition? [] Yes [] No

SEGL Lab #	Sample Identification	Analysis	Date Sampled	Time	Media/Container	Preservative	4°C	Swab/Wipe Area Units:	Air Volume (L)	Minutes
300330	120412-1616-ACU	Fungus CF + FD	12/4	-	ACU-COR	-	-	-	75	5

Sample Collection and Custody Information

Relinquished By:

12-5-12 0730

Date/Time:

Samples Shipped Via: [] FedEx [] UPS [] DHL [] US Mail [] Drop Box [] Drop Off [] Other

Received By:

HECUM ERZUMI

Date/Time:

12/5/12 0730

Relinquished By:

Date/Time:

Received By:

Date/Time:

A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.

APPENDIX A3

ANALYTICAL RESULTS

December 12, 2012-Classroom P-3 & 205



Analytical Results

Lab Number:	302581	302582	302583
Sample Identification:	121212--1616-A01, Area, portable P-3, center of room	121212-1616-A02, Area, exterior covered walkway between portables	121212-1616-A03, Area, classroom #205
Analysis:	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination	Fungi Enumeration & Identification - Direct Examination
Methodology:	SLGL-3067	SLGL-3067	SLGL-3067
Sample Media:	Air-O-Cell	Air-O-Cell	Air-O-Cell
Debris Rating:	3	2	2
Air Volume (L):	75.0	75.0	75.0
Minutes:	5	5	5
Date Analyzed:	December 13, 2012	December 13, 2012	December 13, 2012

Mold/Fungi Type	Raw Count	Count/m ³	Raw Count	Count/m ³	Raw Count	Count/m ³
<i>Alternaria</i>					1	53
Ascospores						
** <i>Aspergillus/Penicillium</i> -like	4	213	2	107	2	107
Basidiospores	1	53			1	53
<i>Bipolaris/Drechslera</i> -like						
<i>Botrytis</i>						
<i>Chaetomium</i>						
<i>Cladosporium</i>	3	160				
<i>Curvularia</i>						
<i>Epicoccum</i>						
<i>Fusarium</i>						
Myxomycetes/ <i>Periconia</i> /smuts	2	107				
<i>Nigrospora</i>						
<i>Oidium/Erysiphe/Peronospora</i>						
<i>Phoma</i>						
<i>Pithomyces</i>						
rusts						
<i>Spegazzinia</i>						
<i>Stachybotrys</i>						
<i>Stemphylium</i>						
<i>Torula</i>						
<i>Ulocladium</i>						
unknown/identified						
hyphal fragments						
Total fungal spores and fragments:	10	533	2	107	4	213
Limit of Detection:	1	53	1	53	1	53
Comments:						

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m³: Count per meter cubed

PAACB: Pan-American Acrobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

***Aspergillus* and *Penicillium* spores (and others such as *Paecilomyces*) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

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Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Helena M. Enzen

Reviewed by: _____

Norman E. Fletcher

Approved By: _____

Norman Fletcher, Lab Manager



The Scott Lawson Group, Ltd.

Environmental, Health & Safety Consultants

Post Office Box 3304, Concord, NH 03302-3304

(603) 228-3610 / (800) 645-7674 / Fax (603) 228-3871

Client: SAU #15

90 Farmer Road

Hooksett, NH 03106

SLGL Job #: 12-1616

Client Project: Auburn Village School

Report Date: December 13, 2012

Date Sampled: December 12, 2012

Date Received: December 13, 2012

Collected by: SMC

Analyzed by: NEF, #01040036



Analytical Results

Table with 4 columns: Lab Number, Sample Identification, Analysis, Methodology, Sample Media, Debris Rating, Air Volume (L), Minutes, Date Analyzed.

Main data table with columns: Mold/Fungi Type, Raw Count, Count/m³, and empty columns for results.

TNTC: Too numerous to count

<: Less Than

>: Greater Than

Count/m3: Count per meter cubed

PAACB: Pan-American Aerobiology Certification Board

Detection Limit: The detection limit is equal to one fungal spore or hyphal fragment.

** Aspergillus and Penicillium spores (and others such as Paecilomyces) are small and round with few distinguishing characteristics. They cannot be distinguished by this method.

*: No analytical field blank submitted with associated sample(s).

Background Debris: Background debris is an indication of the amount of non-microbial debris present on the slide and is rated on a scale of 1 to 5:

Debris Load of 1: <10% debris present. Counts not affected.

Debris Load of 2: 11-25% debris present. Counts not affected.

Debris Load of 3: 25-75% debris present. Counts may be underestimated.

Debris Load of 4: 76-90% debris present. Counts underestimated.

Debris Load of 5: >90% debris present. Counts could not be determined, sample overloaded.

Helen M. Erzeni

Reviewed by: _____

Norman E. Fletcher

Approved By: _____

Norman Fletcher, Lab Manager



The Scott Lawson Group, Ltd.

Environmental, Health & Safety Consultants

20 Chenell Drive
Concord, New Hampshire 03301
Ph: (603) 228-3610, Fax: (603) 228-3871
www.slg.com email: Lab@slg.com

Submitting Co:

STU 15

SLGL Job #:

12-1616

Client Project:

Auburn Village School

Client PO:

Attention:

Sampled By:

SMC

Phone:

Fax:

*Not available for all tests. Schedule rush and weekend tests in advance.

- Air
- Bulk
- Aqueous
- Oil
- Agar (biostrip)
- Paint
- Agar (plate)
- Sludge
- Soil
- Solid
- Swab
- Tape Lift
- Water, drinking or waste
- Wipe
- Wipe composite
- Other:

All samples on this form should be of the SAME matrix type. Use additional forms as needed.

Samples received in good condition? Yes No

SLGL Lab #	Sample Identification	Analysis	Date Sampled	Time	Media/ Container	Preservative	4°C	Swab/Wipe Area Units:	Air Volume (L)	Minutes
302581	1212-1616-A01	Forged CS + FD	12/12	7	APC				75	5
582	A02								75	5
583	A03								75	5
584	A04								0	0

Sample Collection and Custody Information

Samples Shipped Via: FedEx UPS DHL US Mail Drop Box Drop Off Other

Relinquished By:

12/12 0700

Date/Time:

Received By:

Norman E Flath

Date/Time:

12/13/12 0810

Relinquished By:

Date/Time:

A Note to Customer: by signing and relinquishing your samples to the laboratory, you agree with the terms and conditions found on the back of this Chain of Custody Form.