



Joseph Fuller <jay_fuller@abss.k12.nc.us>

Air request

1 message

Paul Kuczkowski <paul_kuczkowski@abss.k12.nc.us>

Fri, May 19, 2017 at 9:41 AM

To: J Fuller <jay_fuller@abss.k12.nc.us>, William Carter <william_carter@abss.k12.nc.us>

Here is the air request for southern high I think this is all for the rest of the year.

 **Energy-HVAC_Temporary_Schedule_Change May 19.xlsx**
13K

Temporary or Permanent HVAC Schedule Change

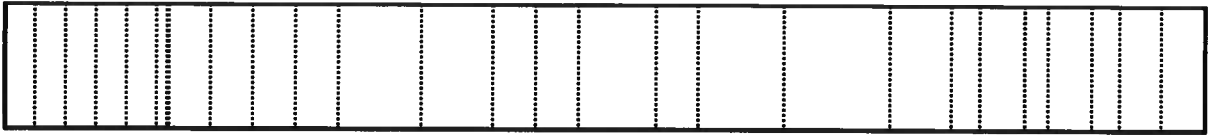
Dates of May 19, 2017

School Name Southern Alamance High School

Area To Be Served:	Type of Change	Date	Time To Start	Time To End
Aud	Temporary		1:30 PM	6:30 PM
Area To Be Served: Band Fund Raiser				
Reason: Band Fund Raiser		20-May		
Area To Be Served: Aud	Temporary		5:30 PM	8:00 PM
Reason: Band Concert		23-May		
Area To Be Served: Aud	Temporary		4:30 PM	9:00 PM
Reason: Athletic Awards		1-Jun		
Area To Be Served: Aud and G building	Temporary	June 2nd thru 3rd	5:30 PM	7:00 AM
Reason: Student Government lock in				
Area To Be Served:	Temporary			
Reason:				
Area To Be Served:	Temporary			
Reason:				
Area To Be Served:	Temporary			
Reason:				

Note: Changes in the schedules which result in the operation of mechanical equipment outside the parameters set by the original program may result in increased energy costs.

Authorized Signature Paul Kuczkowski (Type Name)
 Signature _____ Date _____



Send by noon on Thursday of the week prior to the event

Please Send to Shelia Loyd
Fax # 570-6485



Environmental, Inc.
PO Box 6 Pinnacle, NC 27043

Invoice

DATE	INVOICE #
11/23/2018	1559

BILL TO
Alamance-Burlington School System Jay Fuller 307 Prison Camp Road Graham, NC 27253

PROJECT LOCATION
Harvey R Newlin ES 316 Carden Street Burlington, NC
CLIENT PROJECT ID # / P.O. #

PROJECT NAME	PROJECT #	TERMS	DUE DATE
IAQ:Airborne Mold Testing	201-1811-02	Due on receipt	11/23/2018

PROJECT DATE(S)	DESCRIPTION	# of DAYS / QTY	RATE	AMOUNT
11/10/2018	Airborne Mold Testing/Building-Wide Sampling and Reporting Time	2	450.00	900.00
11/10/2018	Lab Charges / Sample Analysis	18	50.00	900.00

A late charge of 1.5% (18% APR) will be added each month to all invoices 30 days past due.	Total	\$1,800.00
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Office: 336.368.4500
Mobile: 336.575.2343
jmcmanus@alisenvironmental.com

November 21, 2018

Jay Fuller
Director of Facilities and Maintenance

Alamance-Burlington School System
307 Prison Camp Road
Graham, North Carolina 27253

Subject: Report of Airborne Microbial Sampling
Harvey R. Newlin Elementary School
316 Cardin Street
Burlington, North Carolina 27215
Project No.: 201-1811-02

Dear Mr. Fuller:

ALIS has completed our airborne microbial sampling at Harvey R. Newlin Elementary School in Burlington, North Carolina. On November 10, 2018, we conducted air sampling for the presence of airborne fungi at the subject property. The purpose of our sampling was to determine the presence and species of airborne fungi and the degree of concentration within the complaint and non-complaint areas of the building. Air sampling pumps were calibrated and placed in the following locations: 1st floor classrooms 102, 108, 115, 109, 105 General Office, 302-Library, 305 and Cafeteria, 2nd floor rooms 200, 208, 207, 213, 216 and reading room. Two samples were collected from outside the building as a reference for comparison to the inside conditions. Musty odors were not detected in the sampled rooms. Temperature and relative humidity measurements collected from each indoor sampled area indicated lower 70° F and lower 40% RH.

Results

There are no indications that abnormal conditions exist within the sampled locations. The laboratory results show no elevated levels of indoor airborne fungi when compared to levels found on the outside sample except room 200. One spore belonging to the Chaetomium species was detected in room 200 which, when calculated, results in 7 spores per cubic meter of air collected. Potted plants and/or aquariums located in the immediate environment can be a viable food source and a natural habitat for this species. Sample results are attached to this report: "Spore Trap Analysis"

Sampling Methodology

Non-viable samples were collected with a spore trap slide using Allergenco-D Cassettes mounted to a sampling pump. The cassettes contain glass slides that are coated with a sticky substance that captures airborne

particulates that impinge on the slides. The air samples were collected at 15 liters per minute for 10 minutes. Calibration of sampling equipment was performed with a precision rotameter (a secondary calibration source). Rotameters are calibrated against a primary standard. Field calibration was performed before and after sampling. The air samples were sealed for transport to Hayes Microbial Consulting in Midlothian, Virginia for analysis. Hayes Microbial is a participant in the American Industrial Hygiene Association, Laboratory Accreditation Program (AIHA-LAP) for Environmental Microbiology.

Background Information on Mold in Buildings

Mold spores exist normally in outdoor and indoor air and can be measured in air and carpets of normal homes, office buildings, hospitals and schools. Naturally occurring sources of mold spores include soil, plants and other sources. The air concentration of these normally occurring mold spores is dependent on the season, environmental conditions and other factors. Elevated levels of mold in building materials may occur if chronic moist conditions from water leaks, floods, chronic high relative humidity, or malfunctioning heating, ventilation or air conditioning systems, allow moisture to remain for prolonged periods on organic matter in the presence of warm ambient temperatures. Under these conditions, low levels of fungal spores in air, plants or other sources, may proliferate on cellulose containing materials such as carpets, wallboard, wood, paper or dusty surfaces (which may serve as a food source), and result in mold contamination. Many fungal spores are allergenic to susceptible persons exposed, though individual susceptibility varies greatly. There is no practical way to eliminate all mold and mold spores in the indoor environment; the way to control indoor mold growth is to control moisture.

ALIS appreciates the opportunity to be of service to you on this project. We would welcome the opportunity to discuss at your convenience, any of the results contained in this report. Please contact us if you have any questions or if we may be of further service.

Sincerely,
ALIS ENVIRONMENTAL, INC.



James P. McManus
Vice-President

Attachment: "Spore Trap Analysis"



contact@hayesmicrobial.com
http://hayesmicrobial.com/

Analysis Report prepared for

ALIS Environmental Inc.

1027 Koontz Haven Rd
Pinnacle, NC. 27043
Phone: (336) 368-4500

Job Number: 201-1811-02
Job Name: Harvey Newlin Elementary School
316 Carden St.
Burlington, NC
Date Sampled: 11-10-2018
Date Analyzed: 11-13-2018
Report Date: 11-13-2018

EPA Laboratory ID# VA01419



AIHA EMPAT Lab ID# 188863

Mold License: LAB1021

License: #PH-0198



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #18042452

ALIS Environmental Inc.
1027 Koontz Haven Rd
Pinnacle, NC 27043

November 13, 2018

Client Job Number: 201-1811-02
Client Job Name: Harvey Newlin Elementary School
316 Carden St.
Burlington, NC

Dear ALIS Environmental Inc.,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On November 13, 2018 we received 18 samples by FedEx for the job referenced above. 18 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



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 MICROBIAL CONSULTING
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 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

ALIS Environmental Inc.
 1027 Koontz Haven Rd
 Pinnacle, NC 27043
 Phone: (336) 368-4500

Spore Trap Analysis
 SOP #HMC101

HMC #18042452

Job Number: 201-1811-02
 Collected by: Jim McManus
 Email: jmcmanus@alisenvironmental.com
 Job Name: Harvey Newlin Elementary School
 316 Carden St.
 Burlington, NC
 Date Collected: 11/10/2018
 Date Received: 11/13/2018
 Date Reported: 11/13/2018

HMC ID Number	18042452 - 1	18042452 - 2	18042452 - 3	18042452 - 4
Sample ID#	2760765	2127214	2760818	2760775
Sample Name	Outside Building/Pre-K 1st Floor	Outside Bldg/Cafeteria	Room 102	Room 108
Sample Volume	150 liters	150 liters	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3
Background	2	2	2	2
Fragments	13/M3	7/M3	ND	ND

Organism	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria	64	427	22.5%	30	200	12.1%	1	7	6.5%	1	7	35.0%
Ascospores	4	27	1.4%	3	20	1.2%	4	27	25.2%			
Aspergillus/Penicillium	160	1067	56.3%	192	1280	77.7%	9	60	56.1%	2	13	65.0%
Basidiospores	3	20	1.1%	1	7	< 1%						
Bipolaris/Drechslera												
Chaetomium	48	320	16.9%	14	93	5.6%	2	13	12.1%			
Cladosporium	3	20	1.1%									
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes	1	7	< 1%	7	47	2.9%						
Pestalotiopsis	1	7	< 1%									
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	284	1895		247	1647		16	107		3	20	

Water Damage Indicator: Common Allergen
 Slightly Higher than Outside Air
 Significantly Higher than Outside Air
 Ratio Abnormality

Signature: P. Ramesh
 Date: 11/13/2018
 Reviewed by: Stephen N. Hayes
 Date: 11/13/2018



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Spore Trap Analysis
 SOP #HMC101

HMC #18042452

Job Number:	201-1811-02	Job Name:	Harvey Newlin Elementary School	Date Collected:	11/10/2018	
Collected by:	Jim McManus	316 Carden St.	Burlington, NC	Date Received:	11/13/2018	
Email:	jmcmanus@alisenvironmental.com	18042452 - 5	18042452 - 6	Date Reported:	11/13/2018	
HMC ID Number	18042452 - 5	18042452 - 6	18042452 - 7	18042452 - 8		
Sample ID#	2760807	2760776	2760816	2760766		
Sample Name	Room 115	Room 109	Room 105	General Office		
Sample Volume	150 liters	150 liters	150 liters	150 liters		
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3		
Background	2	2	2	2		
Fragments	ND	ND	ND	ND		
Organism	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria						
Ascospores	2	13	14.9%	2	13	39.4%
Aspergillus/Penicillium	1	7	8.0%			
Basidiospores	10	67	77.0%	1	7	21.2%
Bipolaris/Drechslera						
Chaetomium						
Cladosporium						
Curvularia				1	7	25.0%
Epicoccum						
Fusarium						
Mernoniella						
Myxomycetes				1	7	25.0%
Pestalotiopsis						
Pithomyces						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Total	13	87		5	33	

Water Damage Indicator: Common Allergen | Slightly Higher than Outside Air | Significantly Higher than Outside Air | Ratio Abnormality

Signature: P. Ramey Date: 11/13/2018 Reviewed by: Stephen N. Hayes Date: 11/13/2018



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Spore Trap Analysis
 SOP #HMC101

HMC #18042452

Job Number: 201-1811-02
 Collected by: Jim McManus
 Email: jmcmanus@alisenvironmental.com
 Job Name: Harvey Newlin Elementary School
 316 Carden St.
 Burlington, NC
 Date Collected: 11/10/2018
 Date Received: 11/13/2018
 Date Reported: 11/13/2018

HMC ID Number	18042452 - 9	18042452 - 10	18042452 - 11	18042452 - 12
Sample ID#	2760768	2760754	2127216	2760770
Sample Name	Room 302 Library	Room 305	Cafeteria	Blank
Sample Volume	150 liters	150 liters	150 liters	0 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	0 spores/M3
Background	2	2	2	ND
Fragments	ND	ND	ND	ND

Organism	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria									
Ascospores									
Aspergillus Penicillium				1	7	25.9%	1	7	20.6%
Basidiospores	5	33	82.5%	2	13	48.1%	4	27	79.4%
Bipolaris Drechslera									
Chaetomium									
Cladosporium									
Curvularia	1	7	17.5%						
Epicoccum									
Fusarium									
Memnoniella									
Myxomycetes				1	7	25.9%			
Pestalotiopsis									
Pithomyces									
Stachybotrys									
Stemphylium									
Torula									
Ulocladium									
Total	6	40		4	27		5	34	

Water Damage Indicator: Common Allergen
 Slightly Higher than Outside Air
 Significantly Higher than Outside Air
 Ratio Abnormality

Signature: P. Ramesh
 Date: 11/13/2018
 Reviewed by: Stephen A. Hayes
 Date: 11/13/2018



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Spore Trap Analysis
 SOP #HMC101

HMC #18042452

Job Number: 201-1811-02
 Collected by: Jim McManus
 Email: jmcmanus@alisenvironmental.com
 Job Name: Harvey Newlin Elementary School
 316 Carden St.
 Burlington, NC

Date Collected: 11/10/2018
 Date Received: 11/13/2018
 Date Reported: 11/13/2018

HMC ID Number	18042452 - 13	18042452 - 14	18042452 - 15	18042452 - 16
Sample ID#	2127218	2127210	2127215	2127209
Sample Name	Room 200 - 2nd Floor	Room 208 - 2nd Floor	Room 207 - 2nd Floor	Room 213 - 2nd Floor
Sample Volume	150 liters	150 liters	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3	7 spores/M3	7 spores/M3
Background	2	2	2	2
Fragments	ND	ND	ND	ND

Organism	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria												
Ascospores	1	7	6.5%							1	7	20.6%
Aspergillus/Penicillium	8	53	49.5%									
Basidiospores	5	33	30.8%	4	27	> 99%	1	7	35.0%	3	20	58.8%
Bipolaris/Drechslera												
Chaetomium	1	7	6.5%									
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes	1	7	6.5%				2	13	65.0%	1	7	20.6%
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	16	107		4	27		3	20		5	34	

Water Damage Indicator Common Allergen Slightly Higher than Outside Air Significantly Higher than Outside Air Ratio Abnormality

Signature: P. Ramey Date: 11/13/2018 Reviewed by: Stephen A. Hayes Date: 11/13/2018



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Spore Trap Analysis
 SOP #HMC101

HMC #18042452

Job Number: 201-1811-02	Job Name: Harvey Newlin Elementary School	Date Collected: 11/10/2018
Collected by: Jim McManus	316 Carden St.	Date Received: 11/13/2018
Email: jmcmanus@alisenvironmental.com	Burlington, NC	Date Reported: 11/13/2018

HMC ID Number	18042452 - 17	18042452 - 18
Sample ID#	2127208	2127205
Sample Name	Room 216 - 2nd Floor	Reading Room - 2nd Floor
Sample Volume	150 liters	150 liters
Reporting Limit	7 spores/M3	7 spores/M3
Background	2	2
Fragments	ND	ND

Organism	Raw Count	Count / M3	% of Total	Raw Count	Count / M3	% of Total
Alternaria						
Ascoeres	1	7	50.0%			
Aspergillus Penicillium						
Basidiospores	1	7	50.0%	1	7	35.0%
Bipolaris Drechslera						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Memnoniella						
Myxomycetes				2	13	65.0%
Pestalotiopsis						
Pithomyces						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Total	2	14		3	20	

Water Damage Indicator	Common Allergen	Slightly Higher than Outside Air	Significantly Higher than Outside Air	Ratio Abnormality
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Signature: P. Ramesh Date: 11/13/2018 Reviewed by: Stephen A. Hayes Date: 11/13/2018



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 Phone: (336) 368-4500

Spore Trap Information

HMC #18042452

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	<p>The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 4 and each level is determined as follows:</p> <p>ND : No background detected. (Pump or cassette malfunction.) Recollect sample.</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggest recollection of sample.</p>
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Indoor/Outdoor Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicators	These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergens	Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Outside Air	The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.
Significantly Higher than Outside Air	The spore count is significantly higher than the outdoor count and probably indicates a source of contamination.
Ratio Abnormality	The types of spores found indoors should be similar to the ones that were identified in the outdoor sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.
Color Note	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



HAYES

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Organism Descriptions

HMC #18042452

Alternaria

Habitat: Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.

Health Effects: A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.

Ascospores

Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.

Health Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus/Penicillium

Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.

Health Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

Basidiospores

Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.

Health Effects: Common allergens and are also associated with hypersensitivity pneumonitis.

Bipolaris/Drechslera

Habitat: They are found in soil and as plant pathogens. Can grow indoors on a variety of substrates.

Health Effects: They may be allergenic and are very commonly involved in allergic fungal sinusitis. They are opportunistic pathogens but occasionally infect healthy individuals, causing keratitis, sinusitis and osteomyelitis.

Chaetomium

Habitat: Ascomycete fungus, commonly isolated from soil and decaying plant materials. It is cellulolytic and grows well indoors on damp sheetrock and other paper substrates. It is often found growing with *Stachybotrys*.

Health Effects: It is reported to be allergenic and may produce toxins.

Cladosporium

Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.

Health Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.



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Organism Descriptions

HMC #18042452

Curvularia

Habitat: They exist in soil and plant debris, and are plant pathogens.

Health Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.

Myxomycetes

Habitat: Found on decaying plant material and as a plant pathogen.

Health Effects: Some allergenic properties reported, but generally pose no health concerns to humans.

Pestalotiopsis

Habitat: Found in soil and occasionally on plants. Some species can break down plastics.

Health Effects: No known health effects. Allergenic properties are poorly studied.



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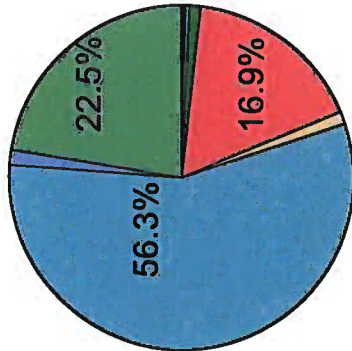
Graph Addendum

HMC #18042452

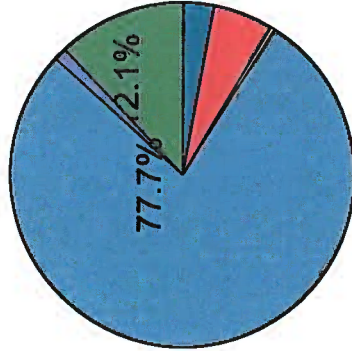
Job Number: 201-1811-02	Job Name: Harvey Newlin Elementary School	Date Collected: 11/10/2018
Collected by: Jim McManus	316 Carden St.	Date Received: 11/13/2018
Email: jmcmanus@alisenvironmental.com	Burlington, NC	Date Reported: 11/13/2018

Organism Percentages For Each Sample

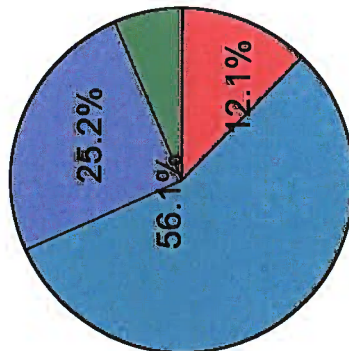
Outside Building/Pre-K 1st Floor



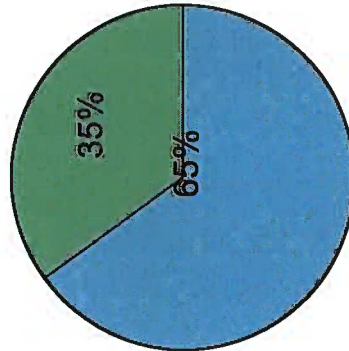
Outside Bldg/Cafeteria



Room 102



Room 108



- Ascospores
- Aspergillus|Penicillium
- Basidiospores
- Bipolaris|Drechslera
- Cladosporium
- Curvularia
- Myxomycetes
- Pestalotiopsis



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

ALIS Environmental Inc.
1027 Koontz Haven Rd
Pinnacle, NC 27043
Phone: (336) 368-4500

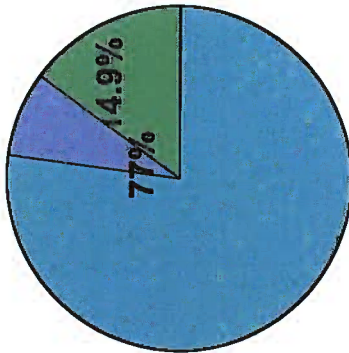
Graph Addendum

HMC #18042452

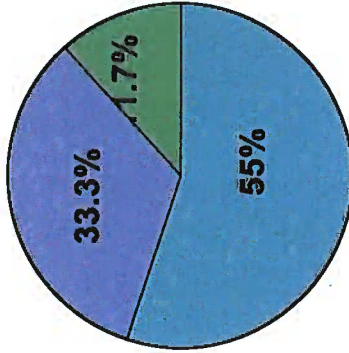
Job Number: 201-1811-02	Job Name: Harvey Newlin Elementary School	Date Collected: 11/10/2018
Collected by: Jim McManus	316 Carden St.	Date Received: 11/13/2018
Email: jimcmanus@alisenvironmental.com	Burlington, NC	Date Reported: 11/13/2018

Organism Percentages For Each Sample

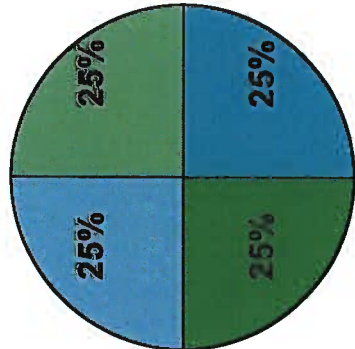
Room 115



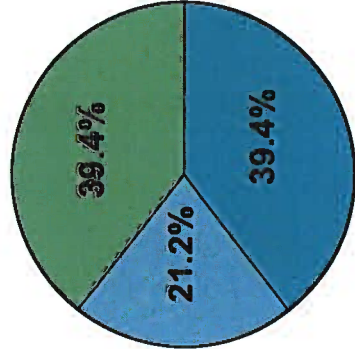
Room 109



Room 105



General Office



Ascospores

Aspergillus|Penicillium

Basidiospores

Bipolaris|Drechslera

Cladosporium

Curvularia

Myxomycetes

Pestalotiopsis



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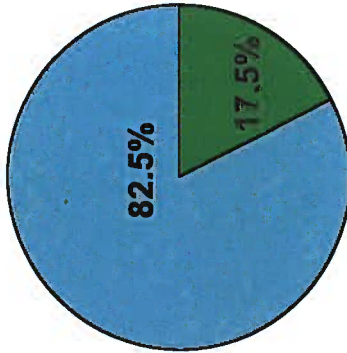
Graph Addendum

HMC #18042452

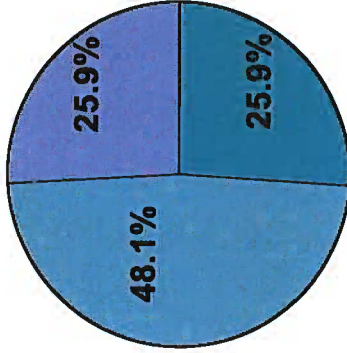
Job Number: 201-1811-02	Job Name: Harvey Newlin Elementary School	Date Collected: 11/10/2018
Collected by: Jim McManus	316 Carden St.	Date Received: 11/13/2018
Email: jmcmanus@alisenvironmental.com	Burlington, NC	Date Reported: 11/13/2018

Organism Percentages For Each Sample

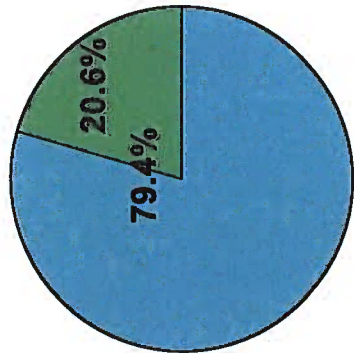
Room 302 Library



Room 305



Cafeteria



Blank

- Ascospores
- Aspergillus|Penicillium
- Basidiospores
- Bipolaris|Drechslera
- Cladosporium
- Curvularia
- Myxomycetes
- Pestalotiopsis



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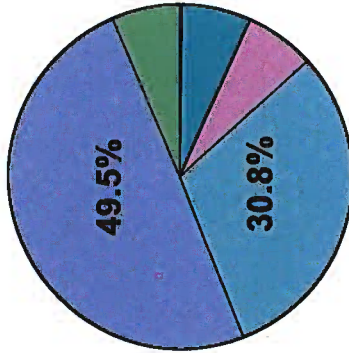
Graph Addendum

HMC #18042452

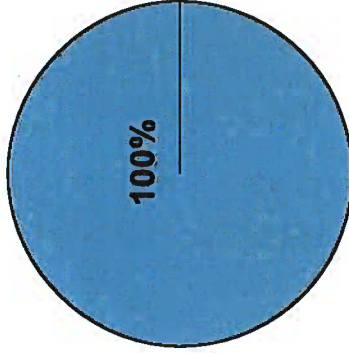
Job Number: 201-1811-02	Job Name: Harvey Newlin Elementary School	Date Collected: 11/10/2018
Collected by: Jim McManus	316 Carden St.	Date Received: 11/13/2018
Email: jmcmanus@alisenvironmental.com	Burlington, NC	Date Reported: 11/13/2018

Organism Percentages For Each Sample

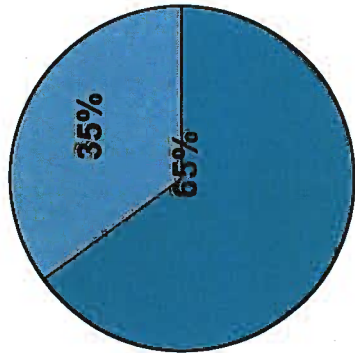
Room 200 - 2nd Floor



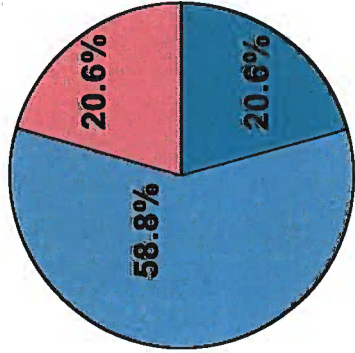
Room 208 - 2nd Floor



Room 207 - 2nd Floor



Room 213 - 2nd Floor



- Alternaria
- Ascospores
- Aspergillus|Penicillium
- Basidiospores
- Bipolaris|Drechslera
- Chaetomium
- Cladosporium
- Curvularia
- Myxomycetes
- Pestalotiopsis



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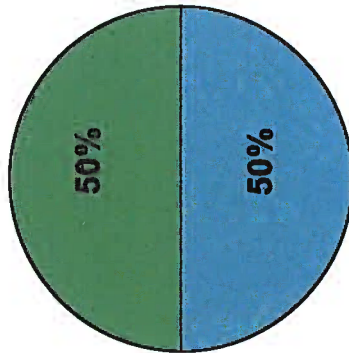
Graph Addendum

HMC #18042452

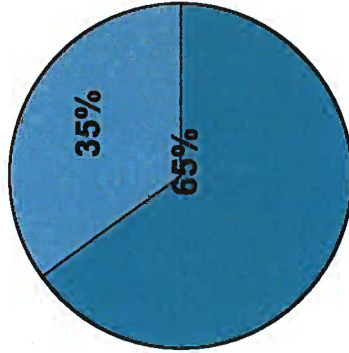
Job Number: 201-1811-02	Job Name: Harvey Newlin Elementary School	Date Collected: 11/10/2018
Collected by: Jim McManus	316 Carden St.	Date Received: 11/13/2018
Email: jmcmanus@alisenvironmental.com	Burlington, NC	Date Reported: 11/13/2018

Organism Percentages For Each Sample

Room 216 - 2nd Floor



Reading Room - 2nd Floor



Alternaria

Ascospores

Aspergillus|Penicillium

Basidiospores

Bipolaris|Drechslera

Chaetomium

Cladosporium

Curvularia

Myxomycetes

Pestalotiopsis



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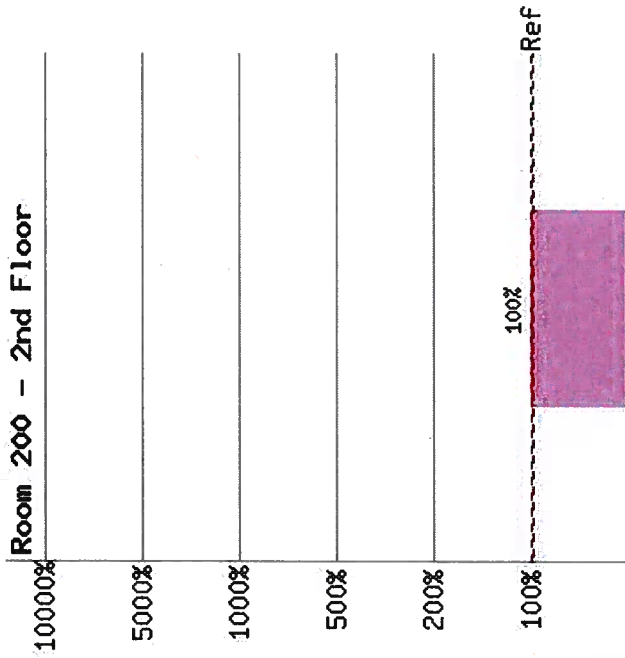
Graph Addendum

ALIS Environmental Inc.
1027 Koontz Haven Rd
Pinnacle, NC 27043
Phone: (336) 368-4500

HMC #18042452

Job Number: 201-1811-02	Job Name: Harvey Newlin Elementary School	Date Collected: 11/10/2018
Collected by: Jim McManus	316 Carden St.	Date Received: 11/13/2018
Email: jmcmanus@alisenvironmental.com	Burlington, NC	Date Reported: 11/13/2018

Indoor Samples Compared to Outdoor Reference



Legend (100% = Outdoor Reference)

Chaetomium



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MICROBIAL CONSULTING

Chain of Custody
3005 East Boundary Terrace / Suite F
Midlothian, VA 23112
Ph. 804.562.3435 Fax. 804-447-5562

HMC Report #
042452

ALIS Environmental, Inc. 1027 Koontz Haven Rd Pinnacle, NC 27043 Ph: 336.575.2343 Fax:	Job Number: 201-1811-02 Job Name: Harvey Newlin Elementary School 316 Carden St. Burlington, NC	Date Collected: 11/10/2018 Collected by: J. McManus Email: jmcmanus@alisenvironmental.com
--	--	---

Sample #	Sample Name	Analysis Type	Volume	Turn Around Time	Start / Stop Time
2760765	OUTSIDE BUILDING / PRE-K	S	150 LTR	48 HRS	12:22 / 12:32
2127214	OUTSIDE BLDG / CAFETERIA	S	150 LTR		12:16 / 12:26
2760818	ROOM 102		150 LTR		11:13 / 11:23
2760775	ROOM 108		150		11:20 / 11:30
2760807	ROOM 115		150		11:34 / 11:44
2760776	ROOM 109		150		11:41 / 11:51
2760816	ROOM 105		150		11:50 / 12:00
2760766	GENERAL OFFICE		150		11:55 / 12:05
2760768	ROOM 302 - LIBRARY		150		12:07 / 12:17
2760754	ROOM 305		150		12:14 / 12:24
2127216	CAFETERIA		150		12:03 / 12:13
2760770	BLANK		-		- -

PAGE 1 OF 2

Analysis Type	Description	Turn Around Time	Acceptable Samples Types
Spore Trap	S Identification & Enumeration of Fungal Spores	24 hours	Spore Trap cassettes, Impact slides
	S+ ID and E of Fungal Spores + total dander, fiber and pollen count	24 hours	Spore Trap cassettes, Impact slides
Direct ID	D ID and Semi-quantitative enumeration of spores and mycelium	24 hours	Tape, Bio-tape, swab, bulk, agar plate for ID only
	D+ ID and Enumeration with spore count	24 hours	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture	C1 Identification & Enumeration of Mold only	7 days	Anderson Air Plate, Swab, Bulk
	C2 Identification & Enumeration of Bacteria only	4 days	Anderson Air Plate, Swab, Bulk
	C3 Identification & Enumeration of Mold and Bacteria	7 days	Anderson Air Plate, Swab, Bulk
Dust Mite	A1 Semi-quantitative analysis of dust mite allergen	24 hours	Bulk Dust

Notes:

Relinquished By: *L. McManus* Date: 11/12/2018 Rcvd. By: *[Signature]* Date: Time:



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MICROBIAL CONSULTING

Chain of Custody
3005 East Boundary Terrace / Suite F
Midlothian, VA 23112
Ph. 804.562.3435 Fax: 804-447-5552

HMC Report #
042452

ALIS Environmental, Inc.
1027 Koonitz Haven Rd
Pinnacle, NC 27043
Ph.: 336.575.2343 Fax:

Job Number: 201-1811-02
Job Name: Harvey Newlin Elementary School
316 Carden St.
Burlington, NC

Date Collected: 11/10/2018
Collected by: D. McManus
Email: jmcmanus@alisenvironmental.com

Sample #	Sample Name	Analysis Type	Volume	Turn Around Time	Start / Stop Time	Temp RH
2127218	Room 200	S	150 Liters	48 hrs	11:10 / 11:20	68.3 / 40.8
2127210	Room 200	S	150 Liters		11:13 / 11:23	68.4 / 45.4
2127215	Room 207	S	150 Liters		11:16 / 11:26	70.3 / 44.2
2127209	Room 213	S	150 Liters		11:30 / 11:40	71.2 / 44.1
2127208	Room 216	S	150 Liters		11:32 / 11:42	71.7 / 43.5
2127205	Reading Room	S	150 Liters		11:35 / 11:45	72.5 / 43.9
PAGE 2 OF 2						

Corrections
by [Signature]

Analysis Type	Description	Turn Around Time	Acceptable Samples Types
Spore Trap	S Identification & Enumeration of Fungal Spores	24 hours	Spore Trap cassettes, impact slides
	S+ I & E of Fungal Spores + total dander, fiber and pollen count	24 hours	Spore Trap cassettes, impact slides
Direct ID	D ID and Semi-quantitative enumeration of spores and mycelium	24 hours	Tape, Bio-tape, swab, bulk, agar plate for ID only
	D+ ID and Enumeration with spore count	24 hours	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture	C1 Identification & Enumeration of Mold only	7 days	Anderson Air Plate, Swab, Bulk
	C2 Identification & Enumeration of Bacteria only	4 days	Anderson Air Plate, Swab, Bulk
	C3 Identification & Enumeration of Mold and Bacteria	7 days	Anderson Air Plate, Swab, Bulk
Dust Mite	A1 Semi-quantitative analysis of dust mite allergen	24 hours	Bulk Dust

Notes:

Relinquished By: [Signature] Date: 11/12/18 Rcvd. By: [Signature] Date: 11/13/18