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Quarterly Microbial IAQ Assessment Report

Conducted At

Bryantville Elementary School 29 Gurney Drive Pembroke, Massachusetts

November, 2024

Prepared For:

Ms. Erin Obey Superintendent of Schools Pembroke Public Schools 72 Pilgrim Road Pembroke, MA 02339

Paul Matury to

Report Prepared By:

Paul Matuszko, CIH Paul Matuszko Environmental Consulting 79 Cedar Street Walpole, MA 02081

Report Date:

November 26, 2024

PMEC Project #:

24-163.4



November 26, 2024

Ms. Erin Obey Superintendent of Schools Pembroke Public Schools 72 Pilgrim Road Pembroke, MA 02339

RE: Quarterly Microbial (Mold) IAQ Sampling Report #1 for Bryantville Elementary School 29 Gurney Drive, Pembroke, MA PMEC Project #24-163.4

Dear Ms. Obey:

Paul Matuszko Environmental Consulting (**PMEC**) is pleased to submit the enclosed report for the quarterly microbial (mold) indoor air quality (IAQ) sampling conducted at the Bryantville Elementary School, 29 Gurney Drive, Pembroke, Massachusetts. PMEC conducted the sampling within the school on November 13, 2024. Seven (7) total air samples were collected for microbial laboratory analysis.

This limited microbial assessment report has been prepared for the exclusive use of The Pembroke Public Schools.

Certification:

PMEC certifies that the results and findings provided herein for the Bryantville Elementary School building have been reviewed for accuracy, content, regulatory compliance and quality of presentation.

Should you have any questions regarding this report, please do not hesitate to contact me at (617) 893-4476. Thank you for providing PMEC with the opportunity to provide our services to the Pembroke Public Schools for this project.

Respectively submitted;

Paul Matury to

Paul Matuszko, CIH, CIEC Project Manager CIH - Certified Industrial Hygienist (American Board of Industrial Hygiene #9236 CP) CIEC - Certified Indoor Environmental Consultant (American Council for Accredited Certification #0610006)





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Quarterly Microbial IAQ Sampling Report #1 For Bryantville Elementary School 29 Gurney Drive Pembroke, Massachusetts

November, 2024

1.0 Introduction

- A. Paul Matuszko Environmental Consulting (*PMEC*) is pleased to submit this report for the quarterly microbial indoor air quality (IAQ) sampling assessment (#1) conducted at the Bryantville Elementary School, 29 Gurney Drive, Pembroke, Massachusetts. PMEC was retained by the Pembroke Public Schools to conduct the air sampling and general inspection for water and microbial growth within the representative areas of the school building. The microbial sampling was conducted by PMEC on the late afternoon of November 13, 2024. The air sampling was conducted to determine existing spore levels in compliance with the on-going School system IAQ program. A summary of the sampling locations and methods, analysis methods and results are outlined within the report.
- B. PMEC conducted the sampling without escort or assistance. Locations were selected which representative of the building. In general, a mix of classrooms on the perimeter and interior were sampled in each wing or section. Member(s) of the Pembroke Schools Teachers Union were present during PMEC's sampling session. The sampling was conducted to determine existing airborne microbial spore levels in representative areas of each section or wing of the school building.
- C. During sampling, PMEC conducted a general visual inspection of representative room surfaces. Additionally, measurements baseline indoor temperature and humidity levels were collected. PMEC noted any areas or locations with atypical conditions. The following report summarizes the findings of the assessment, analysis results, and general recommendations.

2.0 Scope of Work

- A. The indoor air quality (IAQ) assessment was conducted in accordance with the following tasks:
 - 1. General inspection of the representative areas for visible water damaged materials and mold growth in the rooms being sampled.
 - Conduct representative bioaerosol (microbial) spore trap air sampling for airborne mold (fungal) analysis in the areas sampled. Nine (9) interior and one (1) exterior/outdoor air samples were collected during the November 13, 2024 after school hours site visit (~4-5 pm).
 - 3. Prepare a detailed report detailing the findings of the assessment and sampling data.

3.0 Existing Conditions

- A. General Observations
 - Unit ventilators (univents) and ceiling vents (exhaust grill/vents) were observed to be clean with no accumulated dust or suspect mold spotting present.

- Classrooms horizontal surfaces were generally clean and free of accumulated dust and debris. Carpeting and ceiling tiles were generally clean and free of excessive water stains and debris.
- Brown (water damaged) stained ceiling tiles were observed in the back hallway (back yellow corridor near Music Room). These ceiling tiles should be replaced as required.

4.0 Air Quality Measurements

A. A direct reading, thermohygrometer (Fluke Model 971) was used to collect representative temperature and relative humidity (ratio of water vapor in air) measurements. Recommended season levels are:

•	Temperature (Temp.):	Recommended Winter Range:	63-72 ⁰F
	(degrees Fahrenheit °F)	Recommended Summer:	68-78 ⁰F
•	Relative Humidity (RH%)	Recommended Range:	between 30%-60%; (<50% goal)

B. The measurement results on the assessment date are provided in Table 1 below:

Table 1 Baseline Air Quality Measurements									
Location	Temperature	Relative Humidity %	Comments						
Kindergarten Classroom #114	68.3 °F	27.4%	Slightly lower RH% level						
Classroom #121	68.6 °F	23.9%	Slightly lower RH% level						
Music Room	68.5 °F	24.6%	Slightly lower RH% level, (carpeted room)						
Classroom #234	70.6 °F	23.8%	Slightly lower RH% level						
Classroom #197	71.0 °F	22.8%	Slightly lower RH% level						
Classroom #221	70.4 °F	22.4%	Slightly lower RH% level						
Outside ambient air (outside front entrance)	44.4 °F	31.6%	Cool, clear, dry, afternoon, typical late fall day						

- C. Discussion
 - 1. Temperatures were typical for a school building during the late fall season. Relative humidity levels were at or slightly lower than recommended levels. However, this is typical of occupied buildings during a dry and cool late fall season day.

5.0 Mold Sampling and Analysis Methods

A. PMEC collected "spore trap" air samples for mold spore analysis using air-o-cell[®] brand sampling cassettes. Six (6) indoor samples and one (1) outdoor comparison sample were collected for analysis. A calibrated, battery operated Zefon IAQ 15 sampling pump was used to draw air onto the sample cassette's adhesive slide. PMEC collected the samples at 15 liters of air per minute (LPM) for a five (5) minute sample duration for a total sample collection volume of 75 liters of air. The airborne aerosols (mold, particulates, pollen, etc.) are trapped on the filter media slide for direct microscopic examination.

- B. The samples were collected on November 13, 2024 at approximately ~4pm 5:30 pm. Ambient conditions were cool (~44° F), clear, and dry. Indoor conditions were typical of the season.
- C. The samples were sent via chain of custody by Fed Ex to Hayes Microbial Laboratory (Hayes), located in Midlothian, Virginia. Hayes Laboratory is accredited by the American Industrial Hygiene Association (AIHA) for mold and bacteria identification and analysis (AIHA EMPAT Laboratory Accreditation ID # 188863).
- D. Results are reported as Total Fungi Counts in spores per cubic meter of air (**C**/**m**³). The samples were analyzed for both non-viable and viable fungi by direct analysis optical microscopy. A summary of analysis criteria of spore trap and direct identification analysis is provided in the lab analysis sheets. The sample results are provided as Attachment B to this report.

6.0 Laboratory Analysis Results

A. The results of the November 13, 2024 spore trap air sampling are presented in Table 2 below.

	Table 2 Spore Trap Air Sample Analysis Results November 13, 2024 Quarterly IAQ Sampling Session #1									
Sample #	Sample Location	Total Fungi (C/m ³)	Specific Species & levels of note	Comments						
3911 3640 (01)	Kindergarten Classroom #114	40 C/m ³	Ascospores – 40 C/m ³	Low and acceptable level						
3911 3629 (02)	Classroom #121	27 C/m ³	Ascospores – 27 C/m ³	Low and acceptable level						
3911 3598 (03)	Music Room	80 C/m ³	Ascospores – 53 C/m³ Basidiospores – 27 C/m³	Low and acceptable level						
3911 3622 (04)	Classroom #234	40 C/m ³	Ascospores – 27 C/m ^{3\} Basidiospores – 13 C/m ³	Low and acceptable level						
3911 3586 (05)	Classroom #197	40 C/m ³	Ascospores – 27 C/m ³ Basidiospores – 13 C/m ³	Low and acceptable level						
3911 3606 (06)	Classroom #221	27 C/m ³	Ascospores – 27 C/m ³	Low and acceptable level						
3911 3615 (07)	Outside ambient air (outside front entrance)	566 C/m ³	Ascospores – 230 C/m ³ Aspergillus/Penicillium - 80 C/m ³ Basidiospores – 120 C/m ³ Cladosporium – 110 C/m ³ Curvularia – 13 C/m ³ Epiccoum – 13 C/m ³	Typical fall season levels						

Notes: - Additional information on species types are provided in the Laboratory Analysis results.

- C/m^3 = spore counts per cubic meter of air
- Samples collected in middle or back middle of room unless noted
- Results in **Bold** = species or levels of concern.

7.0 Discussion of Analysis Results

A. The analysis results for the November 13, 2024 sampling session indicate very low and acceptable indoor airborne spore levels. The species identified in the rooms sampled are typically found indoors at low levels and are not a cause for concern.

- B. The indoor sample species identified are similar to the species present on the outdoor ambient air sample analysis. No water damage indicator species were identified on each sample. The current airborne spore levels on the sampling date are not representative of an amplified airborne spore condition in the locations sampled.
- C. No aspergillus/penicillium species spores were identified on each of the indoor sample results.

8.0 Background Mold Information

- A. Currently, there are no standards or regulations to indicate acceptable numerical levels of airborne fungal spores derived from indoor environments. Results are also assessed for specific target species that may induce allergic reactions. Specific species are reviewed for their known potential to cause allergic reactions or as an indicator of potential water damage and moisture issues. In general, indoor mold levels should be equivalent to or lower than outdoor levels or non-complaint areas with similar types and percentages of mold species. Please note that airborne mold spores are present in most indoor environments at low levels.
- B. There are no regulations for acceptable levels of mold in the indoor environment; therefore, exact numerical limits are not supported at this time. Specific fungal species of concern are recommended to have much lower levels in the indoor environment. Existing conditions and symptoms are unique to each season, building and occupant. Airborne mold spore levels may vary greatly by location, time of day and weather conditions. However, health impacts cannot be predicted based on this information; individuals experience varying levels of allergic and non-allergic response to mold. Controlling moisture, in each form, is critical to the prevention of indoor mold growth issues.

9.0 Summary Conclusions

- A. The November 13, 2024 laboratory analysis results indicate that the airborne mold spore levels in the locations sampled were low and acceptable.
- B. Relative humidity levels were slightly lower than recommended during the sampling period. However, this is typical for the seasonal day with dry conditions.
- C. PMEC did not identify any accessible, visible conditions that would directly impact IAQ. Stained ceiling tiles at the back right yellow hallway should be replaced.

10.0 Limitations

- A. The assessment provided herein is based on the professional judgment of PMEC using approved industry standards and guidelines. Not all areas of the school building were accessed for inspection during the representative general spore trap air sampling. Assessment findings are based on the investigator's careful consideration of field observations and interpretation of analysis results in accordance with industry standards, including, but not limited to, IICRC S520 guidelines for Condition 1 normal fungal ecology, 2008 AIHA (Green Book) publication "Recognition, Evaluation, and Control of Indoor Mold", and the ACGIH 1999 book "Bioaerosols Assessment and Control".
- B. The analysis results are only representative of the conditions of the date and time of sample collection and are considered a "snapshot in time". PMEC's results and discussion listed herein represent the conditions present at the time of inspection and sampling.

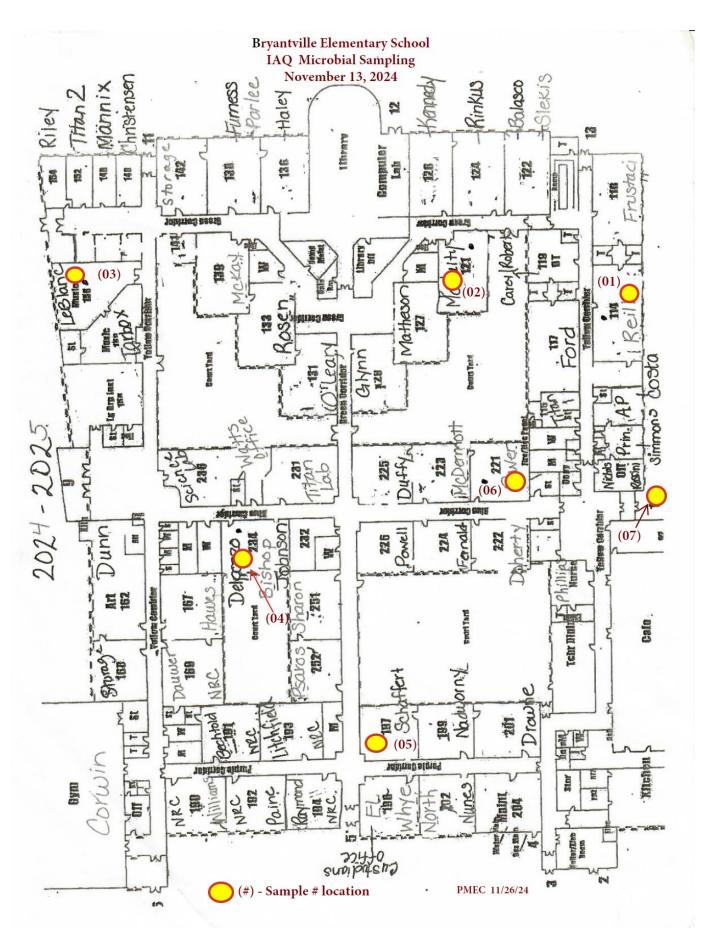
ATTACHMENTS

Attachment A – Sampling Floor Plan (1 page)

Attachment B – Hayes Microbial – November 13, 2024 Sample Analysis Results (pages 1-6)

Attachment A

Sample Location Floor Plan



Attachment B

Laboratory Analysis Results

Hayes Microbial Analytical Laboratory

November 13, 2024 Sampling Session (pages 1-6)



#24051879

Analysis Report prepared for

Paul Matuszko Environmental Consulting

79 Cedar Street Walpole, MA 02081

Phone: (617) 893-4476

24-163 Boyantville Elem. School 29 Gurney Dr. Pembroke, MA 02359

Collected: November 13, 2024 Received: November 15, 2024 Reported: November 15, 2024 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 7 samples by FedEx in good condition for this project on November 15th, 2024.

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. Information supplied by the customer can affect the validity of results. These results apply only to the samples as received. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

All information provided to Hayes Microbial is confidential information relating to our customers and their clients. We will not disclose, copy, or distribute any information verbally or written, except to those designated by the customer(s). We take confidentiality very seriously. No changes to the distribution list will be made without the express consent of the customer.

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. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Stephen N. Hoycs

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



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

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Paul Matuszko Paul Matuszko Environmental Consulting

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Walpole, MA 02081 (617) 893-4476

24-163 Boyantville Elem. School 29 Gurney Dr. Pembroke, MA 02359

#24051879

SOP - HMC#101

Sample Number*	1	3911	3640	2	3911	3629	3	3911	3598	4	3911	3622		
Sample Name*	Classroom 114			Cla	Classroom 121			Music Room			Classroom 234			
Sample Volume*		75 L		75 L				75 L		75 L				
Reporting Limit		13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³			
Background		2			2			2			2			
Fragments		ND			ND			ND			ND			
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Tota		
Alternaria														
Ascospores	3	40	100.0%	2	27	100.0%	4	53	66.7%	2	27	66.79		
Aspergillus Penicillium														
Basidiospores							2	27	33.3%	1	13	33.39		
Bipolaris Drechslera														
Chaetomium														
Cladosporium														
Curvularia														
Epicoccum														
Fusarium														
Memnoniella														
Myxomycetes														
Pithomyces														
Stachybotrys														
Stemphylium														
Torula														
Ulocladium														
Total	3	40	100%	2	27	100%	6	80	100%	3	40	1009		
Water Damage Indicato		Commo	n Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher t	han Baseline		Ratio Abnormali	ty		
ates data provided by the cust	omer	Collected: Nov 1	3, 2024	Rece	ived: Nov 15, 2	024	Reported:	Nov 15, 2024						
	ES	Project Analyst: Ronzo Lee,	Bennet			Date: 11 - 15 - 202	Reviewe 4 David M	ed By: cDonald, PHR 🚺	avid H	Donald	Date:	- 2024		

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79 Cedar Street

Walpole, MA 02081

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SOP - HMC#101

Sample Number*	5	3911	3586	6	3911	3570	7	3911	3615			
Sample Name*	C	lassroom 19	17	CI	assroom 22	1	Outs	ide Ambient	t Air			
Sample Volume*		75 L			75 L			75 L				
Reporting Limit		13 spores/m ³	}		13 spores/m ³			13 spores/m ³				
Background		2	2					2				
Fragments		ND			ND			27/m ³				
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total			
Alternaria												
Ascospores	2	27	66.7%	2	27	100.0%	17	230	40.5%			
Aspergillus Penicillium							6	80	14.3%			
Basidiospores	1	13	33.3%				9	120	21.4%			
Bipolaris Drechslera												
Chaetomium												
Cladosporium							8	110	19.0%			
Curvularia							1	13	2.4%			
Epicoccum							1	13	2.4%			
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	3	40	100%	2	27	100%	42	566	100%			
Water Damage Indicato	or	Commo	n Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher t	han Baseline	F	Ratio Abnormal	lity
* indicates data provided by the cus	tomer			-								
		Collected: Nov		Rece	eived: Nov 15, 2	024		Nov 15, 2024				
	ES	Project Analyst:	0	\wedge		Date:	Reviewe	ed By:	and H	Donald	Date:	
MICROBIAL CO	ONSULTING	Ronzo Lee,	Kange	20		11 - 15 - 202	24 David M	cDonald, PHR 🖊	MANC	MMA	11 - 1	5 - 2024
		3005 East Bo	oundary Terra	ce, Suite F. Mic	dlothian, VA. 2	3112	(804) 562-343	35 con	tact@hayesm	icrobial.com		Page: 3 of 5

Paul Matuszko	
Paul Matuszko	Environmental Consulting

79 Cedar Street Walpole, MA 02081 (617) 893-4476 **24-163** Boyantville Elem. School 29 Gurney Dr. Pembroke, MA 02359

Spore Trap Information

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	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 5 and each level is determined as follows:
	NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1 : <5% of field occluded. No spores will be uncountable. 2 : 5-25% of field occluded.
	 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. Suggested recollection of sample.
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.
Control 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 Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.
Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline 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 indoo environment than it was outdoors.
Color Coding	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.
Significant Figures	Raw counts and column totals may reflect more than 2 significant figures, but results should only be considered significant to 2 figures.

Paul Matuszko Paul Matuszko Enviro	onmental Co	154-163 Boyantville Elem. School	#24051879
79 Cedar Street Walpole, MA 02081 (617) 893-4476		29 Gurney Dr. Pembroke, MA 02359	Analyte Descriptions
Ascospores	Habitat:	A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbe rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.	rs become very high following
	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 on a wide variety of substrates.	. Are able to grow well indoors
	Health Effects:	This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause e opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in huma production is dependent on the species, the food source, competition with other organisms, and other enviro	ns and other animals. Toxin
Basidiospores	Habitat:	A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant they can cause structural damage to buildings.	pathogens. In wet conditions
	Health Effects:	Common allergens and are also associated with hypersensitivity pneumonitis.	
Cladosporium	Habitat:	One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numl afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and	bers often spike in the late
	Health Effects:	A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pn	eumonitis.
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 onychomycosis, mycetoma, pneumonia, endocarditis and desseminated infection, primarily in the immunoco	
Epicoccum	Habitat:	It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, inclu commonly found on wet drywall.	ding paper and textiles and is
	Health Effects:	It is a common allergen. No cases of infection have been reported in humans.	



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	or: Paul Ma			\bigtriangledown		and the second se			pmatuszko@pmecsolutio			
Date Co		13/24			e, MA 02359			. 2001,	cleaR 441		ed Media Types	
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Spore Tr	· · · · · · · · · · · · · · · · · · ·	S		& Enumeration of Fungal	-		24 Hou		Air Cassettes			
		S+		nalysis with Dander, Fiber			24 Hou				ulk, Agar Plate	
Direct ID		D		antative Enumeration of s							CARL CONTRACTOR AND	
		D+		is with Fully Quantitative			24 Hou				ulk, Agar Plate	
Culture		C1		& Enumeration of Mold o			7 Day 4 Day		Air Plate, Aga		and alter to an	
		C2		Identification & Enumeration of Bacteria only Identification & Enumeration of Mold and Bacteria Coliform Screen for Sewage Bacteria Total Particulate Analysis, ID & Count (Does Not Include Mold)						Plate, Agar Plate, Swab, Bulk		
		C3							Air Plate, Agar Plate, Swab, Bulk			
		C5							Agar Plate, Swab, Bulk Air Cassettes, Impact Slides, Bio-Tape			
, Particle		TPA	Total Particu							, Impact SI		
#	Number			Sample		Analysis		Volume			Notes	
	911 364			00m 114		S	7	51	5 miro	15-LPM	Background Sampling	
H		29	class	room 121	/	S		1				
3 3		98		ic Room		S						
	39/1 36	22		STOOM 234		S						
		586	Clas	55100M 197		S		}				
		70	c/a	<u>ssroom 221</u> tside Ambie		S						
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