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INDUSTRIAL HYGIENE ASSOCIATES, INC.

December 24, 2020

Mr. David A. Cell, CFEI, EMT-B, HMT dcell@cbsd.org
Central Bucks School District
320 West Swamp Road
Doylestown, PA 18901

Re: Eagle Industrial Hygiene Associates, Inc. - Project #201197
Indoor Environmental (IEQ) Evaluation of the A Wing and B119 of Central Bucks West High School, December 19, 2020, Project 201197

Dear Mr. Cell:

Eagle Industrial Hygiene Associates, Inc. completed an indoor environmental quality (IEQ) evaluation of the A Wing and Room B119 on December 19, 2020. The evaluation was completed as part of the district's ongoing efforts to maintain acceptable indoor environmental quality in the A Wing with regard to mold.

The evaluation included a visual inspection of all classrooms, offices, and common areas in A Wing, except the Library, measuring temperature and relative humidity, and the collection of air samples for mold spores. Room B119 was also inspected after its recent ventilation system cleaning and sanitizing.

In summary, A Wing and Room B119 are acceptable for occupancy with regard to mold. There was no suspect mold growth noted on any surface in the evaluation area. The attached report details the findings of the evaluation. Thank you for the opportunity to be of service.

Sincerely,

Keith E. Crawford, CIH

INDOOR ENVIRONMENTAL QUALITY EVALUATION
Project #201197

A Wing and Room B119
Central Bucks High School West
375 W. Court Street
Doylestown, PA 18901

Prepared For:

Mr. David A. Cell, CFEI, EMT-B, HMT
Central Bucks School District
320 West Swamp Road
Doylestown, PA 18901

Submitted By:

EAGLE INDUSTRIAL HYGIENE ASSOCIATES, INC.
359 DRESHER ROAD
HORSHAM, PA 19044

DECEMBER 24, 2020

INTRODUCTION

Eagle Industrial Hygiene Associates, Inc. completed an indoor environmental quality (IEQ) evaluation of the A Wing and Room B119 on December 19, 2020. The evaluation was completed as part of the district's ongoing efforts to maintain acceptable indoor environmental quality in the A Wing with regard to mold. Mold remediation has recently been completed in the A Wing as part of the fire damage and soot clean-up. B119 has had the ventilation system cleaned and sanitized.

SCOPE OF WORK

The scope of services included completion of the following tasks:

1. Inspected all classrooms, offices, and common areas in the A Wing, except the Library. Room B119 was also inspected and sampled after its recent ventilation system cleaning and sanitizing.
2. Measured temperature and relative humidity in each of the rooms.
3. Surveyed building materials with an infra-red camera to identify temperature anomalies, which often indicate wet building materials.
4. Measured the relative moisture content of suspect building materials identified in the IR scan.
5. Collected air samples for mold spores. Samples were collected in each of the classrooms, offices and in common areas. Air samples for mold spores were also collected outdoors as reference.

The samples collected during the evaluation were preserved and transported with a chain-of custody form to Eagle Industrial Hygiene Associates, Inc.'s laboratory (AIHA LAP Accreditation #100421) for analysis of mold spores. Detailed sample information and other supporting data are included as attachments to the report.

All evaluation services were directed by a Certified Industrial Hygienist (CIH) and performed in accordance with generally accepted industrial hygiene guidelines and other current applicable governmental and industry protocols and guidelines for evaluating the indoor environment.

The information outlined in this report is believed to be accurate and true to the best knowledge of the inspector(s). The findings and recommendations contained in this report are based on the observations of the conditions as they existed at the time of the mold evaluation.

FINDINGS

The following summarizes the findings of the evaluation:

- Mold air sample analysis found total airborne mold spore levels indoors to be less than or approximately equal to outdoors, with similar population dispersions between indoor and outdoor samples , which is the desired condition, except for Room A209, a book storeroom. This room had slightly elevated levels of *Aspergillus/Penicillium sp*. type molds compared to the outdoor samples, likely due to an ongoing plumbing leak, which had wetted a ceiling panel (the panel has since been removed, though not replaced at the time of the evaluation). Air samples are considered acceptable in all areas.
- There was no evidence of mold growth on any surface in the rooms examined.

- There remain small water stains on suspended ceiling panels in several areas of the A Wing, which are due to roof leaks or plumbing leaks from the floor above.
- The IR survey found all building materials to be dry.

TEMPERATURE AND RELATIVE HUMIDITY MEASUREMENTS

No “ideal” temperature and humidity level is suitable for all building occupants. Many factors, such as personal activity and clothing may affect personal comfort. Guidelines issued by the American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE) recommend that indoor temperatures in the winter be maintained between 68 and 75°F and temperatures in the summer be maintained between 73 and 79°F. These ranges should be acceptable for sedentary or slightly active persons.

Acceptable relative humidity levels should range from 20–60% year-round. Levels less than 20% in the winter and greater than 60% in the summer should be considered unacceptable. Elevated relative humidity can promote the growth of mold, bacteria, and dust mites, which can aggravate allergies and asthma. Low relative humidity can cause health complaints, including but not limited to sore throats, eye irritation, and dry skin, and static discharges when contacting conducting surfaces.

Location	Relative Humidity (%)	Temperature (F)
Outdoors- 2 locations	19.9 and 13.3	37.1 and 39.0
A101	17.1	67.1
A102	14.3	67.3
A104	12.8	67.0
A106	11.7	67.9
A108	11.5	69.8
A110	13.7	69.0
A112	13.3	69.0
A114	11.4	69.6
A115	12.3	68.7
A116	12.4	66.0
A117	11.8	69.1
A119	12.2	69.1
A121	13.2	69.7
A118	11.3	67.8
A121B	14.1	69.1
A121C	15.1	69.1
A120	11.0	67.8
A123	12.9	68.3
A122	13.5	66.9
Corridor at A100D Stairs	12.7	68.6
B119	14.9	67.0
A202	17.0	68.7
A201	10.2	66.3
A204	10.3	68.0
A209	18.0	67.3

A206	8.4	68.0
A208	10.0	67.5
A210	9.1	66.8
A213	12.4	67.1
A212	9.5	67.2
A215	13.0	68.1
A214	8.7	67.7
A216	9.0	67.0
A221	11.7	67.2
A221A	14.1	66.0
A221B	14.4	67.0
A223	13.5	66.4
A218	10.6	68.6
A220	9.5	68.5
A222	9.0	68.0
A224	12.0	67.9
A227	1.7	69.1
Hallway in front of A202	18.8	63.5
Hallway in front of A215	11.8	68.1

Temperature levels were within or close to acceptable ranges for occupant comfort at all areas evaluated with exception of Rooms A201 and A223 and the corridor by A202. Temperatures in these areas were slightly below recommended levels.

Relative humidity levels were below acceptable ranges for occupant comfort at all areas evaluated. This is not unusual in winter months during periods of cold outdoor weather.

RESULTS OF SAMPLE ANALYSIS

Air samples were collected for analysis of mold spores as part of the evaluation. A summary of the results of analysis of the samples is outlined in Table 1 below. Data detailing the levels of individual spore types are outlined (along with these total spore counts) on the attached laboratory report pages.

TABLE 1
Total Airborne Mold Spore Levels

Sample Location and Number	Total Count Concentration (structures/m^3)	Sample Location and Number	Total Count Concentration (structures/m^3)
#27 Outdoors (background)	**270**	**#52 Outdoors (background)**	**400**
#02 A100E	340	#28 A202	100
		#29 A201	68
		A204	
#21 A106	34	A211	

Sample Location and Number	Total Count Concentration (structures/m^3)	Sample Location and Number	Total Count Concentration (structures/m^3)
#20 A108	<34	#46 A218	100
#19 A110	68	#34 A206	140
#18 A112	68	#35 A208	<34
#16 A114	140	#37 A210	34
#15 A115	100	#36 A213	68
#11 A116	34	#38 A212	240
#13 A117	140	#41 A215	34
#10 A119	100	#43 A221A	170
#07 A121	140	#39 A200C	170
#12 A118	68	#40 A214	100
#08 A121B	100	#47 A216	200
#04 A120	68	#33 A221	100
#06 A123	200	#32 A204	140
#03 A122	100	#42 A221B	170
#05 Corridor at A122	68	#44 A223	34
#09 A121C	100	#45 A221B	34
#14 Corridor at A111	410	#48 A220	68
#01 B119	68	#49 A222	100
#17 A111	68	#50 A224	310
#22 A104	68	#51 A227	270
#23 A107	200	#26 Corridor at A202	200
#24 A101	68	#30 A203	270
#25 A102	<34	#31 A209	980

CONCLUSION AND RECOMMENDATIONS

The evaluation found the A Wing and Room B119 acceptable for occupancy with regard to mold. Total indoor mold spore levels were less than or approximately equal to total outdoor mold spore levels, and had similar population dispersions, with the exception of A209, a book storeroom. Spore levels for the genus *Aspergillus/Penicillium* were elevated above background or outdoor values in this room. This was likely due to wetted ceiling panels from a plumbing leak. The wetted ceiling panel(s) had been removed but not replaced at the time of the evaluation. Also note that outdoor mold spore levels are often depressed in winter due to snow cover.

Additionally, there was no suspect mold growth noted on any surface. The IR scan found that there were no wet building materials, though there are some water-stained ceiling tiles. The water stains are due to small roof or plumbing leaks.

Finally, temperature levels were within guidelines in most areas, though relative humidity levels were below recommended guidelines, a common occurrence during winter months. Low relative humidity does irritate the respiratory system and eyes, though correcting the phenomena in a healthy manner is not easily accomplished, since humidifiers installed in ventilation systems require substantial maintenance to ensure proper performance and to avoid becoming a source of both fungal and bacterial contamination of the indoor environment from pooled, fetid water in the humidifier.

Based on these findings, it is recommended that plumbing and roof repairs continue, with water-stained ceiling panels replaced as repairs are made.

SAMPLE COLLECTION AND ANALYSIS METHODS

Sample Collection Methods

The airborne fungal structure samples were collected using Air-O-Cell spore traps and a Zefon Model ZBP-200 *BIO-PUMP® PLUS*. Air was drawn through the spore traps by the BIO-PUMP at an airflow rate of 15 liters per minute (lpm). The samples were collected for a measured time period. The sample volume was calculated by multiplying the sample flow rate by the sample collection time.

Sample Analysis Methods

The samples were analyzed by the Eagle Industrial Hygiene Associates, Inc. laboratory. The laboratory is accredited by the American Industrial Hygiene Association (AIHA LAP Accreditation #100421) for microbial sample analysis. The sample analysis results listing the types and quantities of fungi found in the samples are outlined on the laboratory data pages included with this report.

The Air-O-Cell spore traps used to collect the air samples were analyzed by counting and characterizing the spores and fungal structures collected in measured areas of the spore trap, as viewed through a light microscope at a magnification of 400x. The number of spores and structures counted and classified is then used to calculate the airborne concentrations, based on the total surface area of the spore trap, the size of the area viewed through the microscope, and the air volume drawn through the spore trap. The sample results are reported as spores and fungal structures per cubic meter of air (Spores/m^3).

BACKGROUND INFORMATION

Microbial Growth in Buildings

Microorganisms (bacteria and fungi) are a normal and essential component of all environments. They are needed to break down complex molecules found in organic matter. Microorganisms will grow in almost any environment if they are provided with water and a food source. Microorganisms are almost always found in outdoor air and in the soil. The types and population levels of microorganism will vary from location to location, depending on the local environmental conditions.

Microorganisms are also routinely found in the indoor environment. Doors, windows, and fresh air intakes provide easy access for microorganisms to enter the interiors of buildings. People entering the building are another common pathway for introduction of microbes to the indoor environment.

The normal and expected populations of microbial growth in the indoor environment should not be apparent in a visual inspection of the building interior. Visible microbial growth on building surfaces is an indication of "out of balance" environmental conditions which require correction.

Excessive moisture inside a building from leaks, floods, or other sources can create an environment in which the microorganism population will grow and exceed the levels found outdoors. The type and extent of the microbial growth will depend on the amount of water and available food, temperature, lighting, and other factors. Surface samples can determine the types and quantities of microbial growth in the building.

Effects of Exposure to Molds

The presence of some microorganisms in large quantities in an indoor environment may cause health problems in some people. Infants, the elderly, and persons with compromised immune systems are more susceptible to the health problems from exposure to molds than healthy members of the general population.

EPA publication "A Brief Guide to Mold, Moisture, and Your Home" (#402-K-02-003) provides the following information about the health effects of mold.

> Molds have the potential to cause health problems. Molds produce allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins). Inhaling or touching mold or mold spores may cause allergic reactions in sensitive individuals. Allergic reactions include hay fever type symptoms, such as sneezing, runny nose, red eyes, and skin rash (dermatitis). Allergic reactions to mold are common. They can be immediate or delayed. Molds can also cause asthma attacks in people with asthma that are allergic to mold. In addition, mold exposure can irritate the eyes, skin, nose, throat, and lungs of both mold-allergic and non-allergic people. Symptoms other than the allergic and irritant types are not commonly reported as a result of inhaling mold. Research on mold and health effects is ongoing.

Additional information on health effects of mold exposure can be provided by licensed health care practitioners, the state or local health departments. The reference section of this report lists consensus documents and additional information on mold and bioremediation.

Bio-Remediation Activities

All the currently available consensus guidance documents agree that amplification, i.e., "growth" of mold on building surfaces, requires remediation. The guidance documents also agree that the sources of moisture or water damage that permitted the growth of mold must also be eliminated. Remediation activities should be initiated if visible microbial growth is identified or when surface or air samples in the building find higher than expected microbial levels.

The goal of remediation is to remove or clean contaminated materials in a way that prevents microbes and dust contaminated with microbes from leaving the work area and entering other areas of the building. This work should be done in a way that protects the health of workers performing the abatement and the occupants of the building.

The guiding principles in remediation are as follows:

- Identify and correct the original moisture problem that caused the microbial growth.
- Remove moldy porous materials and remove semi-porous and nonporous material whose structural integrity has been compromised.
- Clean contaminated surface layers of otherwise sound semi-porous and nonporous materials.

- After demolition and surface cleaning work is complete, remove remaining dust and debris from the work area that may contain microorganisms, spores, and the chemicals produced by the growth of the microorganisms.

Decisions to clean or remove contaminated materials are based on the type of material, the extent of the mold contamination, and the structural condition of the material. The amount of contamination and whether the material will be removed or cleaned in place determine the type and extent of controls and protection needed for the remediation work.

Non-porous (e.g., metals, glass, and hard plastics) and semi-porous (e.g., wood, concrete, and plaster) materials that are structurally sound and are visibly moldy can be cleaned and reused. Cleaning should be performed using a combination of a high efficiency particulate (HEPA) vacuum and damp-wiped with a detergent/disinfectant solution.

Porous materials such as ceiling tiles, insulation, and wallboard (drywall, sheet rock, or gypsum board) with more than a small area of contamination should be removed and discarded. Porous materials (e.g., wallboard and fabrics) with a small area of contamination can be cleaned and can be reused if the cleaning is successful. All materials to be reused should be dry and free from visible mold.

The decisions regarding appropriate removal procedures, work area containment, worker protection, and other controls or procedures should be made by a qualified person, such as a Certified Industrial Hygienist, or other environmental professional with appropriate training and experience in bioremediation.

References

Currently there are no standards or laws regulating the allowable levels of bio-aerosols in the indoor environment or specifying surface contamination levels at which remediation activities must be initiated.

The following references outline guidance and additional information for the evaluation and remediation of microbial growth in buildings, data on airborne fungi concentrations in buildings and outdoor environments, and information on the health effects of exposure to mold.

This listing, while comprehensive, should not be considered complete, as professionals in the mold evaluation and remediation fields continue to develop and refine their knowledge, and contributions to the advancements in these fields are ongoing.

1. American College of Occupational and Environmental Medicine: *Adverse Human Health Effects Associated with Molds in the Indoor Environment,* Position Paper: ACOEM, February 2011.
2. American Conference of Governmental Industrial Hygienists (ACGIH): *Bioaerosols: Assessment and Control,* Cincinnati, OH: ACGIH, 1999.
3. American Industrial Hygiene Association (AIHA): *Assessment, Remediation, and Post-Remediation Verification of Mold in Buildings*. Fairfax, VA: AIHA, 2004.
4. American Industrial Hygiene Association (AIHA): *The Facts about Mold,* Operation Outreach Brochure, Fairfax, VA, 2011.
5. American Industrial Hygiene Association (AIHA): Hung, L.L., J.D. Miller, and K.H. Dillon (eds.): *Field Guide for the Determination of Biological Contaminants in Environmental Samples, 2nd edition*. Fairfax, VA: AIHA, 2005.
6. American Industrial Hygiene Association (AIHA), Prezant, B., D.M. Weekes, and J.D. Miller (eds.): *Recognition, Evaluation and Control of Indoor Mold*. Fairfax, VA: AIHA, 2008.
7. American Industrial Hygiene Association (AIHA): *The IAQ Investigator's Guide, 2nd edition*. Fairfax, VA: AIHA, 2006.
8. American Industrial Hygiene Association (AIHA), *Report of Microbial Growth Task Force,* Fairfax, VA: AIHA, 2001.
9. American Society for Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE): *Limiting Indoor Mold and Dampness in Buildings*, Position Document," June 27, 2012.
10. Canadian Construction Association, *Mould Guidelines for the Canadian Construction Industry*, CCA-82-2004 Ottawa, Ontario: CCA, 2004.
11. EMLab: *Typical Outdoor Spore Levels,*" IAQ Pocket Reference Guide – 6th Edition, 2011.
12. Health Canada: Fungal Contamination in Public Buildings: A Guide to Recognition and Management, Health Canada, 1995.
13. Health Canada: *Fungal Contamination in Public Buildings: Health Effects and Investigation Methods*, Ottawa, Ontario, 2004.
14. Health Canada: *Residential Indoor Air Quality Guidelines: Moulds,* 2007.
15. Institute of Inspection, Cleaning, and Restoration Certification (IICRC), *Standard and Reference Guide for Professional Mold Remediation, S-520,* 2008.
16. New York City Department of Health and Mental Hygiene, Bureau of Environmental & Occupational Disease Epidemiology: *Guidelines on Assessment and Remediation of Fungi in Indoor Environments,* (April 2000), January 2002.
17. National Academy of Sciences, Institute of Medicine (NAS): *Damp Indoor Spaces and Health*, Washington, DC: NAS, May 2004.

18. National Institute for Occupational Safety and Health (NIOSH): *Preventing Occupational Respiratory Disease from Exposures Caused by Dampness in Office Buildings, Schools, and Other Nonindustrial Buildings*, Publication # 2013–102. Cincinnati, OH: NIOSH 2012.
19. Occupational Safety and Health Administration (OSHA): *A Brief Guide to Mold in the Workplace*, SHIB03-10-10: OSHA, October 2003.
20. U.S. Environmental Protection Agency (EPA), Office of Air and Radiation, Indoor Environments Division: *Mold Remediation in Schools and Commercial Buildings*, EPA 402-K-01-001: EPA, March 2001.
21. World Health Organization (WHO): *Guidelines for Indoor Air Quality: Dampness and Mould.* WHO Regional Office for Europe, DK-2100. Copenhagen, Denmark: WHO. 2009.
22. Horner, W.E., C. Barnes, R. Codina, and E. Levetin: Guide for interpreting reports from inspections/investigations of indoor mold. *J. Allergy Clin. Immunol.* 121:592-97 (2008).
23. Shelton, B., et al: Profiles of Airborne Fungi in Building and Outdoor Environments in the United States, *Applied and Environmental Microbiology*, April 2002, p. 1743-1753.
24. Spicer, R.: "Bioaerosol Data Distribution: Probability and Implications for Sampling in Evaluation Problematic Buildings," *Applied Occupation and Environmental Hygiene,* 18: 584-590, 2003.

CHAIN OF CUSTODY

DEP# 46-00564
AIHA# 100421
Rev. 10-02-2020

EAGLE
Industrial Hygiene Associates, Inc.
359 Dresher Road
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CLIENT: Central Bucks School district	POINT OF CONTACT: Harrison Hall	PROJECT NO: 201197.1
ADDRESS: 375 W Court St, Doylestown, PA 18901	PHONE NO: 267-996-7062 E-MAIL: HHall@eagleih.com	LAB NO: 2012100
TURNAROUND TIME / SPECIAL INSTRUCTIONS / COMMENTS:		EAGLE NO: E20122109

JOB SITE / DESCRIPTION: Central Bucks High School West spore counts in classrooms, Custodial rooms, and storage rooms on the 1st and second floors of A wing.

ANALYTE: Mold Spores	SAMPLE TYPE: Surface MEDIA: Bio-Tape	ANALYTICAL METHOD:

FIELD SAMPLE NUMBER	SAMPLE LOCATION / DESCRIPTION	VOLUME/AREA (L)
HH 1219-01	B119	150
HH 1219-02	A100E	150
HH 1219-03	A122	150
HH 1219-04	A120	150
HH 1219-05	Hallway outside of A122	150
HH 1219-06	A123	150
HH 1219-07	A121	150
HH 1219-08	A121B	150
HH 1219-09	A121C	150
HH 1219-10	A119	150
HH 1219-11	A116	150
HH 1219-12	A118	150

COLLECTED BY: Harrison Hall	DATE AND TIME COLLECTED: 12/19/20 08:00	RECEIVED BY / CHAIN OF CUSTODY INITIATED BY: Harrison Hall		DATE: 12/19/20	TIME: 15:15
RELINQUISHED BY:	DATE AND TIME:	RECEIVED BY:		DATE:	TIME:
RELINQUISHED BY:		RECEIVED BY:		DATE:	TIME:
SUBMITTED TO LAB BY: Harrison Hall	DATE: 12/19/20	RECEIVED AT LAB BY: PH SAMPLES ACCEPTABLE	SAMPLES: 52	DATE: 12/21/20	TIME: 12:30

FOR LAB USE ONLY

PRE-LOGGED BY: PH PJT	PREPARED BY: PH	ANALYZED BY: [signature]	DATE: 12/21-22/20
DATA VALIDATED BY: PJT	RUSH REPORT BY:	POST-LOGGED BY: PH	
DATA PROCESSED BY: PJT	TEST REPORT REVIEWED BY: RB PJT	TEST REPORT APPROVED BY: [signature]	DATE: 12/28/20

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121927
Sample Description: Outside Exit 2 in Courtyard

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122135

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	3	20	100	37
Aspergillus/Penicillium-like	2	20	68	25
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	1	20	34	13
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	1	20	34	13
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	1	20	34	13
TOTAL	**8**		270	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121952
Sample Description: Outside in front of Loading Docks on Van

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122160

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	5	20	170	43
Aspergillus/Penicillium-like	5	20	170	43
basidiospores (undifferentiated)	1	20	34	9
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	1	20	34	9
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**12**		400	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121901
Sample Description: B119

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122109

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	50
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	1	20	34	50
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
359 Dresher Road
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www.eagleih.com

Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121902
Sample Description: A100E

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122110

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	5	20	170	50
Aspergillus/Penicillium-like	2	20	68	20
basidiospores (undifferentiated)	2	20	68	20
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	1	20	34	10
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**10**		340	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Horsham, PA 19044
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121903
Sample Description: A122

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122111

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	34
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	1	20	34	34
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	1	20	34	34
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**3**		100	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121904
Sample Description: A120

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122112

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	50
Aspergillus/Penicillium-like	1	20	34	50
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121905
Sample Description: Hallway outside A122

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122113

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	100
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121906
Sample Description: A123

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122114

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	34
Aspergillus/Penicillium-like	3	20	100	50
basidiospores (undifferentiated)	1	20	34	17
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**6**		200	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121907
Sample Description: A121

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122115

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	49
Aspergillus/Penicillium-like	1	20	34	24
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	1	20	34	24
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**4**		140	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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www.eagleih.com

Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121908
Sample Description: A121B

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122116

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	68
Aspergillus/Penicillium-like	1	20	34	34
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**3**		100	100
Background Debris (0 - 5)	3			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121909
Sample Description: A121C

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122117

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	3	20	100	100
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**3**		100	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121910
Sample Description: A119

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122118

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	34
Aspergillus/Penicillium-like	1	20	34	34
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	1	20	34	34
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**3**		100	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121911
Sample Description: A116

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122119

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	100
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**1**		34	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121912
Sample Description: A118

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122120

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	100
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Rev. 8-28-17

CHAIN OF CUSTODY RECORD CONTINUATION SHEET

CLIENT: Central Bucks School District	PROJECT NO: 201197.1	LAB NO: 201210C

FIELD SAMPLE NUMBER	SAMPLE LOCATION / DESCRIPTION	VOLUME/AREA (N/A)
HH 1219-13	A117	150
HH 1219-14	Hallway outside of A111	150
HH 1219-15	A115	150
HH 1219-16	A114	150
HH 1219-17	A111	150
HH 1219-18	A112	150
HH 1219-19	A110	150
HH 1219-20	A108	150
HH 1219-21	A106	150
HH 1219-22	A104	150
HH 1219-23	A107	150
HH1219-24	A101	150
HH 1219-25	A102	150
HH 1219-26	Hallway outside of A202	150
HH 1219-27	Outside Exit 2 in courtyard	150
HH 1219-28	A202	150
HH 1219-29	A201	150
HH 1219-30	A203	150
HH 1219-31	A209	150
HH 1219-32	A204	150
HH 1219-33	A221	150
HH 1219-34	A206	150
HH 1219-35	A208	150
HH 1219-36	A213	150

FOR LAB USE ONLY

DATA PROCESSED BY: PLT	TEST REPORT REVIEWED BY: RB/PLT	TEST REPORT APPROVED BY:	DATE: 12/23/20

Eagle Industrial Hygiene Associates, Inc.
359 Dresher Road
Horsham, PA 19044
215-672-6088 (office)
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121913
Sample Description: A117

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122121

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	24
Aspergillus/Penicillium-like	2	20	68	49
basidiospores (undifferentiated)	1	20	34	24
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**4**		140	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Accredited Laboratory
Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121914
Sample Description: Hallway outside of A111

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122122

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	3	20	100	24
Aspergillus/Penicillium-like	4	20	140	34
basidiospores (undifferentiated)	2	20	68	17
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	1	20	34	8
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	1	20	34	8
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	1	20	34	8
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**12**		410	100
Background Debris (0 - 5)	3			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121915
Sample Description: A115

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122123

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	68
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	1	20	34	34
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**3**		100	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121916
Sample Description: A114

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122124

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	24
Aspergillus/Penicillium-like	2	20	68	49
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	1	20	34	24
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**4**		140	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121917
Sample Description: A111

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122125

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	50
Aspergillus/Penicillium-like	1	20	34	50
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121918
Sample Description: A112

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122126

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	100
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121919
Sample Description: A110

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122127

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	50
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	1	20	34	50
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Accredited Laboratory
Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121920
Sample Description: A108

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122128

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	ND	20	<34	
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**ND**		<34	
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Accredited Laboratory
AIHA LAP LLC
Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121921
Sample Description: A106

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122129

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	ND	20	<34	
Aspergillus/Penicillium-like	1	20	34	100
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	1		34	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121922
Sample Description: A104

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122130

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	50
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	1	20	34	50
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121923
Sample Description: A107

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122131

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	3	20	100	50
Aspergillus/Penicillium-like	3	20	100	50
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**6**		200	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121924
Sample Description: A101

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122132

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	50
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	1	20	34	50
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	2		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
359 Dresher Road
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www.eagleih.com

Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121925
Sample Description: A102

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122133

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	ND	20	<34	
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**ND**		<34	
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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www.eagleih.com

Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121926
Sample Description: Hallway outside of A202

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122134

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	34
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	3	20	100	50
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	1	20	34	17
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**6**		200	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121928
Sample Description: A202

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122136

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	34
Aspergillus/Penicillium-like	2	20	68	68
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	3		100	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121929
Sample Description: A201

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122137

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	50
Aspergillus/Penicillium-like	1	20	34	50
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Accredited Laboratory
AIHA LAP LLC
Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121930
Sample Description: A203

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122138

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	3	20	100	37
Aspergillus/Penicillium-like	2	20	68	25
basidiospores (undifferentiated)	2	20	68	25
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	1	20	34	13
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	8		270	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121931
Sample Description: A209

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122139

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	3
Aspergillus/Penicillium-like	17	20	570	58
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	1	20	34	3
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	10	20	340	35
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**29**		980	100
Background Debris (0 - 5)	2			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Accredited Laboratory
Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121932
Sample Description: A204

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122140

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	49
Aspergillus/Penicillium-like	1	20	34	24
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	1	20	34	24
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	4		140	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121933
Sample Description: A221

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122141

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	3	20	100	100
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	3		100	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121934
Sample Description: A206

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122142

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	2	20	68	49
Aspergillus/Penicillium-like	2	20	68	49
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	4		140	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

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Accredited Laboratory
Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121935
Sample Description: A208

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122143

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	ND	20	<34	
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	ND	20	<34	
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**ND**		<34	
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.

Eagle Industrial Hygiene Associates, Inc.
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Lab ID # 100421

Client: Central Bucks School District
20 Welden Road
Doylestown, PA 18901

Location: Central Bucks West High School
375 West Court Street
Doylestown, PA 18901

Field Sample #: HH121936
Sample Description: A213

Project #: 201197.1
Lab #: 2012100
Eagle #: E20122144

AIRBORNE FUNGAL STRUCTURE SAMPLE ANALYSIS

Results reported as Structures per Cubic Meter of Air (structures/m^3)

Fungal Structure Identification	Fungal Structures Counted	Area of Sample Viewed (%)	Concentration (structures/m^3)	Percentage of Total Spores
Alternaria	ND	20	<34	
Arthrinium	ND	20	<34	
ascospores (undifferentiated)	1	20	34	50
Aspergillus/Penicillium-like	ND	20	<34	
basidiospores (undifferentiated)	ND	20	<34	
Botrytis	ND	20	<34	
Cercospora	ND	20	<34	
Chaetomium	ND	20	<34	
Cladosporium	1	20	34	50
Curvularia	ND	20	<34	
Drechslera/Bipolaris-like	ND	20	<34	
Epicoccum	ND	20	<34	
Paecilomyces	ND	20	<34	
Pithomyces	ND	20	<34	
Polythrincium	ND	20	<34	
smuts/*Myxomycetes/Periconia*	ND	20	<34	
Stachybotrys/Memnoniella	ND	20	<34	
Torula	ND	20	<34	
Ulocladium	ND	20	<34	
Zygophiala	ND	20	<34	
conidiospores	ND	20	<34	
hyphal fragments	ND	20	<34	
miscellaneous/unspecified spores	ND	20	<34	
TOTAL	**2**		68	100
Background Debris (0 - 5)	1			

ND= None Detected

The minimum reporting limit for this sample is 34 Structures/m^3

The reported total structure concentration and percentages may not be equal to the sum of the reported individual spore type concentrations and percentages due to the rounding of these numbers.

See 'Method Details' page for analysis explanations.