



Environmental Consultants and Engineers

1818 New York Avenue Suite 217
Washington, DC 20002

www.globalincusa.net

February 23, 2021

Prince Georges County
Environmental Safety Office
13306 Old Marlboro Pike
Upper Marlboro, MD 20772

Attention: Mr. Alex Baylor

RE: Indoor Air Quality Screening Report

Global Project Number: 20-064
School: Carrollton Elementary School

Dear Mr. Baylor,

On November 30, 2020, Global Inc.'s (GLOBAL) team of Industrial Hygienists under the supervision of Certified Industrial Hygienist, Dr. Channa Bambaradeniya, conducted an Indoor Air Quality Screening at Carrollton Elementary School located at 8300 Quintana Street, New Carrollton, MD.

Methodology

The IAQ evaluation included a visual assessment, sampling for non-viable mold spores in air, and measurement of comfort parameters (temperature, humidity, carbon dioxide, and carbon monoxide) in randomly selected representative locations within the building. GLOBAL's inspector conducted a walkthrough with Prince Georges County Public School (PGCPS) personnel present. Rooms were selected in a random manner throughout the building so as to prevent sampling bias.

During the visual assessment of representative locations, and when noted, GLOBAL documented those areas with suspected mold growth, water intrusions, and wet conditions that have the potential to lead to mold growth. GLOBAL also noted any unusual odors. At least one microbial air sample was collected for every 10,000 Square Feet (SF) of space in the building and the analytical results for the interior spaces were compared to an outdoor (ambient) sample collected on the same day.

Microbial samples (including a field blank for quality control) were delivered under strict chain-of-custody procedures were to Hayes Microbial Consulting - an AIHA EMPAT-certified laboratory in Midlothian, Virginia for analysis by microscopy. The sample chain-of-custody and laboratory report is attached.



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Observations

The general observations in the five indoor locations inspected are summarized in Table 1 below:

Table 1: Observations

Location	Observations
Room A6	No issues
Room 102	No issues
Multi-purpose Room	No issues
Media Center	Water leak in guidance storage room
Room 119	Dusty/dirty window sills

Comfort Parameter Measurements and Mold-in-Air Sample Results

The comfort parameter measurements and status of fungal ecology is summarized in Table 2 and Table 3.

Temperature

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year-round acceptable temperatures in Standard 55-2016 (*Thermal Environmental Conditions for Human Occupancy*). The winter comfort range is 68 to 75°F and the summer comfort range is 73 to 79°F. It is important to note that ASHRAE standards are intended as a suggested guideline as opposed to a regulation. All the indoor temperature readings were lower than the ASHRAE Standard.

Relative Humidity (RH)

Relative humidity is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE standard 62.1-2013 (*Ventilation for Acceptable Indoor Air Quality*) recommends a maximum indoor relative humidity of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The indoor relative humidity readings in the multi-purpose room was above the ASHRAE recommended level of 65%.

Carbon Monoxide

Carbon monoxide (CO) is a colorless and odorless gas that is produced by the incomplete combustion of carbon-containing fuels. Oil, gasoline, diesel fuels, wood, coke, and coal are the major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm.



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Carbon Dioxide

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2013, Appendix C, infers that the acceptable carbon dioxide upper limit is the prevailing outdoor carbon dioxide concentration plus 700 parts per million (ppm). On November 30, 2020, the outdoor (ambient) carbon dioxide concentration was approximately 438 ppm so indoor concentrations should not exceed approximately 1138 ppm (700 + 438). All indoor carbon dioxide measurements were within the ASHRAE standards.

Mold-in-Air Samples

There are no definitive regulations or standardized guidelines for addressing airborne mold in an indoor setting. If building systems (ventilation, envelope) are functioning properly, the indoor fungal ecology profile should be consistent with what is encountered outdoors and the spore concentrations should be below the ambient levels. Laboratory analytical results are attached at the end of this report.

The analytical results of indoor air samples collected from the Multi-Purpose Room indicated elevated presence of *Myxomycetes*, while Room 119 indicate elevated presence of *Aspergillus/Penicillium*.

Table 2: Air Quality Results (Inspected on November 30, 2020)

Sample Location	Temp °F	RH%	CO ppm	CO2 ppm	Normal Fungal Ecology?
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1138	
Ambient	66.3	81.8	0	438	-
Room A6	63.4	50.4	0	401	Yes
Room 102	66.5	59.6	0	406	Yes
Multi-purpose Room	66.3	74.2	0	981	No
Media Center	62.7	56.7	0	411	Yes
Room 119	63.0	57.4	0	411	No



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Table 2: Air Quality Results (Inspected on February 21, 2020)

Sample Location	Temp °F	RH%	CO ppm	CO2 ppm	Normal Fungal Ecology?
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1310	
Ambient	43	22	0	610	-
Multi-purpose Room	48	32	0	520	Yes
Room 119	49	28	0	590	Yes

Conclusions and Recommendations

Among the comfort parameters measured, the indoor temperature readings were lower than the ASHRAE recommended range for winter. The indoor temperature should be maintained at the ASHRAE recommended range for general comfort.

The indoor mold samples collected from the Multi-Purpose Room and Room 119 on November 30, 2020 showed elevated presence of mold. These two locations were thoroughly cleaned and resampled on February 21, 2021. The analytical results of air samples collected on February 21, 2021 indicated normal fungal ecology for the Multi-purpose Room and Room 119.

It has been our pleasure to conduct these IAQ Screening services for the Prince Georges County Public School system. If you have any questions, please feel free to contact us.

Regards,

Channa Bambaradeniya, Ph.D., CIH, CSP, CHMM
Certified Industrial Hygienist
Global, Inc.
Mobile: 443-691-0455



Environmental Consultants and Engineers

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Washington, DC 20002

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ATTACHMENT I

Air Sample Analytical Results and Chain-Of-Custody Form

Analysis Report prepared for

Global, Inc.

1818 New York Ave.
Suite 217
Washington, DC, 20002

Phone: (443) 691-0455

BB203
PGCPS Indoor Air Quality
Carrollton Elementary School

Collected: **November 30, 2020**
Received: **December 1, 2020**
Reported: **December 1, 2020**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 6 samples by FedEx in good condition for this project on December 1st, 2020.

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

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. 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.



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



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1	CAES-1130-01			2	CAES-1130-02			3	CAES-1130-03			4	CAES-1130-04		
Sample Name	Ambient			A6			Room 102			Multipurpose						
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter						
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³						
Background	2			2			2			2						
Fragments	27/m ³			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 Total				
Alternaria	2	27	1.7%													
Ascospores	5	67	4.3%				1	13	2.2%							
Aspergillus Penicillium	52	693	45.2%	2	27	25.0%	9	120	19.6%	18	240	16.1%				
Basidiospores	1	13	<1%													
Bipolaris Drechslera																
Chaetomium																
Cladosporium	3	40	2.6%	6	80	75.0%	4	53	8.7%	10	133	8.9%				
Curvularia							1	13	2.2%							
Epicoccum																
Fusarium	2	27	1.7%													
Memnoniella																
Myxomycetes	49	653	42.6%				31	413	67.4%	84	1120	75.0%				
Pithomyces	1	13	<1%													
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	115	1533	100%	8	107	100%	46	612	100%	112	1493	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Collected: Nov 30, 2020

Received: Dec 1, 2020

Reported: Dec 1, 2020

Project Analyst:
 Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:
12 - 01 - 2020

Reviewed By:
 Steve Hayes, BSMT *Stephen N. Hayes*

Date:
12 - 01 - 2020

Sample Number	5 CAES-1130-05			6 CAES-1130-06				
Sample Name	Media Center			Room 119				
Sample Volume	75.00 liter			75.00 liter				
Reporting Limit	13 spores/m ³			13 spores/m ³				
Background	2			2				
Fragments	13/m ³			ND				
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total		
Alternaria								
Ascospores								
Aspergillus Penicillium	9	120	75.0%	25	333	100.0%		
Basidiospores	1	13	8.3%					
Bipolaris Drechslera								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Memnoniella								
Myxomycetes	1	13	8.3%					
Pithomyces	1	13	8.3%					
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Total	12	159	100%	25	333	100%		

Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality



Collected: Nov 30, 2020

Received: Dec 1, 2020

Reported: Dec 1, 2020

Project Analyst:
Shareef Abdelgadir, MS *Shareef Abdelgadir*

Date:
12 - 01 - 2020

Reviewed By:
Steve Hayes, BSMT *Stephen N. Hayes*

Date:
12 - 01 - 2020

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	<p>The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:</p> <p>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggested recollection of sample.</p>										
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.										
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.										
<table border="1"> <tr> <td style="background-color: #ADD8E6;">Water Damage Indicator</td> <td>Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.</td> </tr> <tr> <td style="background-color: #90EE90;">Common Allergen</td> <td>Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.</td> </tr> <tr> <td style="background-color: #FFDAB9;">Slightly Higher than Baseline</td> <td>Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.</td> </tr> <tr> <td style="background-color: #FFB6C1;">Significantly Higher than Baseline</td> <td>Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.</td> </tr> <tr> <td style="background-color: #DDA0DD;">Ratio Abnormality</td> <td>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 indoor environment than it was outdoors.</td> </tr> </table>	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 indoor environment than it was outdoors.	
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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.										

Organism Descriptions

Alternaria	Habitat: Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces. Effects: A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.
Ascospores	Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report. Effects: Health affects are poorly studied, but many are likely to be allergenic.
Aspergillus Penicillium	Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates. Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.
Basidiospores	Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings. 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 plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts. Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.
Curvularia	Habitat: They exist in soil and plant debris, and are plant pathogens. Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.

Organism Descriptions

Fusarium

Habitat: Commonly found in soil and plant debris and some species are plant pathogens. It is occasionally found indoors on a variety of substrates and in humidifiers, and requires very moist conditions.

Effects: Reported to be allergenic and several species may produce potent mycotoxins, including trichothecenes, fumonisin, and vomatxin. It has a history of severe toxicoses with the ingestion of contaminated grains. An occasional cause of keratitis and mycetoma and can cause disseminated infection in immunocompromised patients.

Myxomycetes

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

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

Pithomyces

Habitat: Common fungus isolated from soil, decaying plant material. Rarely found indoors.

Effects: Allergenic properties are poorly studied. No cases of infection in humans.



Company: Global Inc.
 Address: 1818 New York Avenue,
Suite 217 Washington, DC 20002

N

SHIP: FEDEX - PAK 50
 DATE: 12-01-2020



Job Number: BB203	Job Name: PGPCS Indoor Air Quality- Carrollton Elementary School	Mobile: 443-691-0455	Email: channab@globalincusa.net
Collector: Kenna Leonzo		Note:	
Date Collected: 11/30/2020			

Analysis Type	Analysis Description	Turnaround	Accepted Media Types
Spore Trap	S	24 Hour	Air Cassettes, Impact Slides
	S+	24 Hour	Air Cassettes, Impact Slides
Direct ID	D	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate
	D+	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate
Culture	C1	7 Day	Air Plate, Agar Plate, Swab, Bulk
	C2	4 Day	Air Plate, Agar Plate, Swab, Bulk
	C3	7 Day	Air Plate, Agar Plate, Swab, Bulk
	C5	2 Day	Agar Plate, Swab, Bulk
Particle	TPA	24 Hour	Air Cassettes, Impact Slides, Bio-Tape

#	Number	Sample	Analysis	Volume	Notes
1	CAES-1130-01	Ambient	S	75 L	
2	CAES-1130-02	A6			
3	CAES-1130-03	Room 102			
4	CAES-1130-04	Multipurpose			
5	CAES-1130-05	Media Center			
6	CAES-1130-06	Room 119			
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Released by: <u>Kenna Leonzo</u>	Date: <u>11/30/20</u>	Received By: <u>YH</u>	<u>12/1</u>	Date:
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Analysis Report prepared for

Global, Inc.

1818 New York Ave.
Suite 217
Washington, DC, 20002

Phone: (443) 691-0455

20-064
IAQ Reinspection
Carrollton ES
8300 Quintana St.
New Carrollton, MD

Collected: **February 21, 2021**
Received: **February 23, 2021**
Reported: **February 23, 2021**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 3 samples by FedEx in good condition for this project on February 23rd, 2021.

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

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. 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.



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



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1 01			2 02			3 03					
Sample Name	Ambient			Multi-Purpose Room			Room 119					
Sample Volume	75.00 liter			75.00 liter			75.00 liter					
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³					
Background	2			2			2					
Fragments	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			
Alternaria												
Ascospores	2	27	25.0%	2	27	100.0%						
Aspergillus Penicillium	4	53	50.0%									
Basidiospores												
Bipolaris Drechslera												
Chaetomium												
Cladosporium							13	173	100.0%			
Curvularia												
Epicoccum	1	13	12.5%									
Fusarium												
Memnoniella												
Myxomycetes	1	13	12.5%									
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	8	106	100%	2	27	100%	13	173	100%			

Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality

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	<p>The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:</p> <p>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggested recollection of sample.</p>					
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.					
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.					
<table border="1"> <tr><td>Water Damage Indicator</td></tr> <tr><td>Common Allergen</td></tr> <tr><td>Slightly Higher than Baseline</td></tr> <tr><td>Significantly Higher than Baseline</td></tr> <tr><td>Ratio Abnormality</td></tr> </table>	Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality	<p>Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.</p> <p>Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.</p> <p>Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.</p> <p>Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.</p> <p>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 indoor environment than it was outdoors.</p>
Water Damage Indicator						
Common Allergen						
Slightly Higher than Baseline						
Significantly Higher than Baseline						
Ratio Abnormality						
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.					

Organism Descriptions

Ascospores	Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.
	Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus Penicillium	Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.
	Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

Cladosporium	Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.
	Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.

Epicoccum	Habitat: It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.
	Effects: It is a common allergen. No cases of infection have been reported in humans.

Myxomycetes	Habitat: Found on decaying plant material and as a plant pathogen.
	Effects: Some allergenic properties reported, but generally pose no health concerns to humans.



Company: Global Inc
 Address: 1818 New York Ave NE Suite 217
 Washington DC 20002

SHIP: FEDEX - BOX 50
 DATE: 02-23-2021

N

8160 4411 5587

MOLD

21005720

Job Number: 20-064	Job Name: IAQ Reinspection	Mobile: 443-691-0455	Email: Channab@globalincusa.net
Collector: Shane Prabuddha	Carrington ES 8300 Quintana st New Carrollton MD	Note:	
Date Collected: 02/21/2021			

Analysis Type	Analysis Description	Turnaround	Accepted Media Types	
Spore Trap	S	Identification & Enumeration of Fungal Spores	24 Hour X	Air Cassettes, Impact Slides
	S+	Spore Trap Analysis with Dander, Fiber, and Pollen counts	24 Hour	Air Cassettes, Impact Slides
Direct ID	D	ID & Semi-Quantative Enumeration of spores and mycelium	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate
	D+	Direct Analysis with Fully Quantitative spore count	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate
Culture	C1	Identification & Enumeration of Mold only	7 Day	Air Plate, Agar Plate, Swab, Bulk
	C2	Identification & Enumeration of Bacteria only	4 Day	Air Plate, Agar Plate, Swab, Bulk
	C3	Identification & Enumeration of Mold and Bacteria	7 Day	Air Plate, Agar Plate, Swab, Bulk
	C5	Coliform Screen for Sewage Bacteria	2 Day	Agar Plate, Swab, Bulk
Particle	TPA	Total Particulate Analysis, ID & Count (Does Not Include Mold)	24 Hour	Air Cassettes, Impact Slides, Bio-Tape

#	Number	Sample	Analysis	Volume	Notes
1	01	Ambient	S	75L	T: 48 RH: 22 CO2: 610 CO: 0
2	02	Multi-purpose Rm	S	75L	T: 48 RH: 32 CO2: 520 CO: 0
3	03	Room 119	S	75L	T: 49 RH: 28 CO2: 500 CO: 0
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Released by: Shane Prabuddha	Date: 2/21/2021	Received By: <i>CP</i>	Date: 2/23/21
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