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March 13, 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: Isaac J. Gourdine Middle School

Dear Mr. Baylor,

On February 15, 2021, 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 Isaac J. Gourdine Middle School located at 8700 Allentown Rd, Fort Washington, MD 20944.

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 nine indoor locations inspected are summarized in Table 1 below:

Table 1: Observations

Location	Observations
Classroom 101	No issues
Classroom 104	Missing and damaged ceiling tiles
Auxiliary Gym (#107)	Missing ceiling tile
Classroom 112	No issues
Classroom 223	Dirty floor
Classroom 228	3 chairs with visible mold growth
Classroom 216	Dust on lab table surface
Classroom 208	No issues
Room M5	No issues

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. The indoor temperature readings in lower level classrooms were below the ASHRAE Standard for winter.

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. All the indoor relative humidity readings were below the ASHRAE recommended level of 65%.



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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.

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 February 15, 2021, the outdoor (ambient) carbon dioxide concentration was approximately 597 ppm so indoor concentrations should not exceed approximately 1297ppm (700 + 597). 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.

The analytical results of indoor air samples collected from Classrooms 101, 104, Auxiliary Gym (107), Classrooms 112, 216 and Room M5 on February 15, 2021 indicated elevated presence of *Aspergillus/Penicillium*. The horizontal surfaces of the above location were thoroughly recleaned, and air scrubbers with HEPA filters were operated for 24-36 hours. Subsequently, they were reinspected on February 21st, 2021, and the analytical results of air samples collected indicated normal fungal ecology all spaces except Room 112. This location was recleaned and reinspected on March 6, 2021, and the analytical results indicated normal fungal ecology. Laboratory analytical results are attached at the end this report.

Table 2: Air Quality Results (Inspected on 2/15/2021)

Sample Location	Temp ⁰ F	RH%	CO ppm	CO2 ppm	Normal	
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1297	Fungal Ecology?	
Ambient	49.0	46.0	0	597	ı	
Classroom 101	56.0	46.0	0	605	No	



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Sample Location	Temp ⁰ F	RH%	CO ppm	CO2 ppm	Normal Fungal	
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1297	Ecology?	
Classroom 104	60.0	41.0	0	590	No	
Auxiliary Gym (#107)	62.0	35.0	0	605	No	
Classroom 112	65.0	35.0	0	590	No	
Classroom 223	67.0	30.0	0	595	Yes	
Classroom 228	72.0	28	0	610	Yes	
Classroom 216	71.0	28	0	575	No	
Classroom 208	71.0	37	0	510	Yes	
Room M5	68.0	31	0	527	No	

Table 3: Air Quality Results (Inspected on 2/21/2020)

Sample Location	Temp ⁰ F	RH%	CO ppm	CO2 ppm	Normal	
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1257	Fungal Ecology?	
Ambient	47.0	21.0	0	557	-	
Classroom 101	60.0	26.0	0	464	Yes	
Classroom 104	58.0	27.0	0	427	Yes	
Auxiliary Gym (#107)	59.0	27.0	0	495	Yes	
Classroom 112	66.0	20.0	0	540	No	
Classroom 216	64.0	22.0	0	566	Yes	
Classroom M5	62.0	26.0	0	473	Yes	



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Table 4: Air Quality Results (Inspected on 3/6/2020)

Sample Location	Temp ⁰ F	RH%	CO ppm	CO2 ppm	Normal	
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1102	Fungal Ecology?	
Ambient	43	35	0	402	-	
Classroom 112	50	42	0	426	Yes	

Conclusions and Recommendations

Among the comfort parameters, the indoor temperature in the lower level classrooms were lower than the ASHRAE standard for winter. The indoor temperature should be maintained at the ASHRAE standards for general comfort.

The indoor mold samples collected from several rooms indicated elevated presence of *Aspergillus/Penicillium* during the screening performed on February 15, 2021. These locations were thoroughly recleaned and reinspected, and the analytical results indicated normal fungal ecology.

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



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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

20-058 Isaac J. Gourdine Middle School 8700 Allentown Rd Fort Washington, MD 20944

Collected: February 15, 2021 Received: February 16, 2021 Reported: February 16, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 11 samples by FedEx in good condition for this project on February 16th, 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



phon N. Hoyes

Lab ID: #188863



DPH License: #PH-0198

Amila Wijayatathne Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-058

Isaac J. Gourdine Middle School 8700 Allentown Rd Fort Washington, MD 20944

#21005157

Spore Trap, Spore Trap Blank

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		SOP - F	IMC#101

Sample Number	1	1 20-058-01		2	20-05	58-02	3 20-058-03			4 20-058-04		
Sample Name	Ambient			Room 101 (Lower Level) (Classroom #101)		Room 104			Auxiliary Gym (#107)			
Sample Volume		75.00 liter			75.00 liter			75.00 liter			75.00 liter	
Reporting Limit		13 spores/m ³	3		13 spores/m ³			13 spores/m ³			13 spores/m ³	
Background		2			2			2			2	
Fragments		ND			ND			ND			ND	
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
Alternaria												
Ascospores	8	107	88.9%	1	13	<1%						
Aspergillus Penicillium				960	12800	99.9%	30	400	93.8%	28	373	100.0%
Basidiospores	1	13	11.1%									
Bipolaris Drechslera												
Chaetomium												
Cladosporium							2	27	6.3%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	9	120	100%	961	12813	100%	32	427	100%	28	373	100%

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Significantly Higher than Baseline

Ratio Abnormality

Collected: Feb 15, 2021

Received: Feb 16, 2021

Reported: Feb 16, 2021

Project Analyst:

Ramesh Poluri, PhD

Date: **02 - 16 - 2021**

Reviewed By:

Steve Hayes, BSMT

Date:

02 - 16 - 2021

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20-058

Isaac J. Gourdine Middle School 8700 Allentown Rd Fort Washington, MD 20944

#21005157

Spore Trap, Spore Trap Blank

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		SOP - F	IMC#101

Sample Number	5	20-05	58-05	6	20-05	58-06	7	20-0	58-07	8	20-05	58-08	
Sample Name		Room 112		Room 223			Room 228 (Classroom 228)			Room 216			
Sample Volume		75.00 liter		75.00 liter			75.00 liter			75.00 liter			
Reporting Limit		13 spores/m ³	3		13 spores/m ³	3		13 spores/m ³	}		13 spores/m ³		
Background		2			2			2			2		
Fragments		ND			ND			ND			13/m ³		
		3			3			3			3		
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													
Ascospores	1	13	5.9%	1	13	50.0%				1	13	2.8%	
Aspergillus Penicillium	16	213	94.1%				9	120	100.0%	35	467	97.2%	
Basidiospores				1	13	50.0%							
Bipolaris Drechslera													
Chaetomium										,			
Cladosporium													
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes													
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Total	17	226	100%	2	26	100%	9	120	100%	36	480	100%	

Water Damage Indicator

Collected: Feb 15, 2021

Project Analyst:

Ramesh Poluri, PhD

Common Allergen

Received: Feb 16, 2021

Reported: Feb 16, 2021

Significantly Higher than Baseline

Date:

Slightly Higher than Baseline

02 - 16 - 2021

Reviewed By: Steve Hayes, BSMT

Date:

Ratio Abnormality

02 - 16 - 2021

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20-058

Isaac J. Gourdine Middle School 8700 Allentown Rd Fort Washington, MD 20944 #21005157

Spore Trap, Spore Trap Blank

SOP - HMC#101

Sample Number	9	20-05	8-09	10	20-05	58-10	11	20-05	8-11			
Sample Name	Room 208			Room M5			I	Field Blank				
Sample Volume		75.00 liter		75.00 liter				0.00 liter				
Reporting Limit		13 spores/m ³			13 spores/m ³			1 spore/m ³				
Background		2			2			NBD				
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	1	13	25.0%	2	27	<1%						
Aspergillus Penicillium	3	40	75.0%	1120	14933	99.8%						
Basidiospores												
Bipolaris Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	4	53	100%	1122	14960	100%	ND	ND				
Water Barrer a Ladiante		_	· Aller ··					Count III house			Datis Abasansa	

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Significantly Higher than Baseline

Ratio Abnormality

Date:



Collected: Feb 15, 2021

Project Analyst:

Ramesh Poluri, PhD

Received: Feb 16, 2021

Date:

02 - 16 - 2021

Reviewed By:

Steve Hayes, BSMT

Reported: Feb 16, 2021

02 - 16 - 2021

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Amila Wijayatathne Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-058

Isaac J. Gourdine Middle School 8700 Allentown Rd Fort Washington, MD 20944

Spore Trap Information

#21005157

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



Amila Wijayatathne Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-058

Isaac J. Gourdine Middle School 8700 Allentown Rd Fort Washington, MD 20944

#21005157

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.
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.





Company: _ Global Inc

1818 New York Ave # 217 Address:

Washington DC 20002

SHIP: FEDEX - BOX SO DATE: 02-16-2021



8160 4411 5635

	Note:	amila	WBS	lobal	incusq	-nd
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Job Number:	20-058		Job Name: Isaac J Copyrdine Middle				21005157
Collector: Amila	Wija tarethr	٠	Job Name: Isaac J. Gourdine Middle 8700 Allentown Rd, Fort Washington (Indoor Air Quality Assessment) MD 20744	Mobile: 443-6	91-0455	Email: Chan	nab@globalincusq.nat
Date Collected:	02/15/2021		(Indoor Air Quality Assessment) MD 20744	Note: amila	v@slobaliv	ncusq-nd	
Analysis	Туре		Analysis Description	Turnaround Accepted Media Types			Media Types
Spore Trap	S	Identificati	on & Enumeration of Fungal Spores	24 Hour	Air Casset	tes, Impact Slide	S
	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 Anal	ysis with Fully Quantitative spore count	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate		
Culture	C1	Identificati	on & Enumeration of Mold only	7 Day	Air Plate, Agar Plate, Swab, Bulk		
	C2	Identificati	on & Enumeration of Bacteria only	4 Day	Air Plate, Agar Plate, Swab, Bulk		
	СЗ	Identificati	on & 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 Casset	tes, Impact Slide	s, Bio-Tape		
						•	

Partie	Particle TPA		Total Particulate Analysis, ID & Count (Does Not Include Mold)		24 Hour	Air Cassettes, Impact Slides, Bio-Tape			ape
#	Numb	er	Sample	Analysis	Volume	(T)	(RH)	(CNotes	(CO)
1	20-058-	01	Ambient	5	75L	49	46%	597	0
2	20 -058-	02	Room 101 (Lower Level) (Class Room #101)	S	75L	56	461.	605	0
3	20-058-	<i>a3</i>	Room 104 (n n)	S	75L	60	41/.	590	0
4	20-058-		Auxiliary gym (#107)	S	75L	62	35/.	605	0
5	20-058-0		Room 112	5	75L	65	35%	590	0
6	20-058-	06	Room 223	S	752	67	30%	595	0
7	20-058-0	07	ROOM 228 (class Room 228)	5	75L	72	28%	610	0
8	20-058-		Room 216	S	754	71	28/-	575	D
9	20 -058 -	09	Room 208	S	75L	71	371.	510	0
10	20 - 058 -	10	Room M5	S	752	681	31%	527	O
11	20 - 058 -	1)	Field Blunk						
12									
13									
14									
15									
16					2				

Released by: A.C. Wigh Date: 62/15/21

Received By:

Date:





Analysis Report prepared for

Global, Inc.

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

Phone: (443) 691-0455

20-064
IAQ Reinspection
Isaac Gourdine MS

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 8 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



phon N. Hayes

Lab ID: #188863



DPH License: #PH-0198

Shane Prabuddha Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064IAQ Reinspection Isaac Gourdine MS

#21005721

Spore Trap, Spore Trap Blank

_	 Ψ,	opo.	_	··αρ	Diamix
				SOP - H	IMC#101

Sample Number	1	0	1	2	0	2	3	0	3	4	0	4
Sample Name	Ambient			Room 101		Room 104			Room 107			
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		ND			ND			ND			ND	
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
Alternaria												
Ascospores	11	147	68.8%	1	13	25.0%						
Aspergillus Penicillium	2	27	12.5%	3	40	75.0%	1	13	50.0%	2	27	100.0%
Basidiospores												
Bipolaris Drechslera												
Chaetomium												
Cladosporium	3	40	18.8%				1	13	50.0%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	16	214	100%	4	53	100%	2	26	100%	2	27	100%

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Significantly Higher than Baseline

Ratio Abnormality

HAYES MICROBIAL CONSULTING Collected: Feb 21, 2021

Steve Hayes, BSMT

Project Analyst:

Received: Feb 23, 2021

Date:

02 - 23 - 2021

Reviewed By:

Ramesh Poluri, PhD

Reported: Feb 23, 2021

P. Ramesh

Date:

02 - 23 - 2021

Shane Prabuddha Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 **IAQ** Reinspection Isaac Gourdine MS

#21005721

Spore Trap, Spore Trap Blank

C	παρ,	Shore	Παρ	Dialik
			SOP - H	MC#101

Sample Number	5	0	5	6	0	6	7	0	7	8	0	8	
Sample Name	Room 112			Room 216			Room M5		Field Blank				
Sample Volume		75.00 liter			75.00 liter			75.00 liter		0.00 liter			
Reporting Limit		13 spores/m ³			13 spores/m ³			13 spores/m ³			1 spore/m ³		
Background		2			2			1		NBD			
Fragments		13/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													
Ascospores				1	13	25.0%	1	13	100.0%				
Aspergillus Penicillium	39	520	95.1%	1	13	25.0%							
Basidiospores													
Bipolaris Drechslera													
Chaetomium													
Cladosporium	2	27	4.9%	2	27	50.0%							
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes													
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Total	41	547	100%	4	53	100%	1	13	100%	ND	ND		

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Significantly Higher than Baseline

Ratio Abnormality

Collected: Feb 21, 2021

Steve Hayes, BSMT

Project Analyst:

Received: Feb 23, 2021

Date:

02 - 23 - 2021

Reviewed By:

Ramesh Poluri, PhD

Reported: Feb 23, 2021

Date:

02 - 23 - 2021

Shane Prabuddha Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 IAQ Reinspection Isaac Gourdine MS

#21005721

Spore Trap Information

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



Shane Prabuddha Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 **IAQ** Reinspection Isaac Gourdine MS

#21005721

Organism Descriptions

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.





Company: Global Inc

Address:

1818 New York Ave NE Suite 217

Washington DC 20002

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

8160 4411 5587

Collector: Shane Prabuddha Date Collected: 02 21 21

Job Number: 20-064

Job Name: IAQ Reinspection

Isaac Govvine MS

Mobile: 443-691-0455

Email: Channab@globalincusa.net

N	0	t	e

20112 20112212	0010121					
Analysis	s 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	Δnalveic	Volume	Notes	

£					
) #	Number	Sample	Analysis	Volume	Notes
) #	01	Ambient	S	75L	T:47 PH:21 CO2:557 CO:0
2	02	Room 101	5	756	1: 60 RH: 26 COZ: 464 CO: 0
3	03	Room 104	3	7 SL	1:58 PH:27 CO2! 171 CO: 0
4	04	Room 107	S	25 L	1:59 RH: 27 CO2: 495 Q:0
5	05	Room 112	5	756	1:66 RH:20 COL: 540 CO:0
6	06	Room 216	3	15 L	11:64 PH: 22 CO2: 566 CO: O
7	07	Room M5	S	75L	17:62 RH: 26 CO2: 473 CO:(0)
8	08	Field blank	5		
9					
10					
11					
12					
13					
14					
15					
16					

Released by: Shane Prabuddha

Date: 02 21 21

Received By:

Date: 9





Analysis Report prepared for

Global, Inc.

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

Phone: (443) 691-0455

20-064
IAQ Assessment - PGCPS
Isaac Gourdine

Collected: March 6, 2021 Received: March 9, 2021 Reported: March 9, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 2 samples by FedEx in good condition for this project on March 9th, 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



plan N. Hayes

Lab ID: #188863



DPH License: #PH-0198

Channa Bambaradeniya Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064

IAQ Assessment - PGCPS Isaac Gourdine

#21007926

Spore Trap SOP - HMC#101

Sample Number	1	IG-	01	2	IG-	02			
Sample Name	Ambient		Room 112						
Sample Volume	75.00 liter			75.00 liter					
Reporting Limit	13 spores/m ³			13 spores/m³					
Background	2			1					
Fragments	ND		ND						
		2			2				
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total			
Alternaria									
Ascospores				2	27	100.0%			
Aspergillus Penicillium									
Basidiospores	1	13	16.7%						
Bipolaris Drechslera									
Chaetomium									
Cladosporium	4	53	66.7%						
Curvularia									
Epicoccum									
Fusarium									
Memnoniella									
Myxomycetes	1	13	16.7%						
Pithomyces									
Stachybotrys									
Stemphylium									
Torula									
Ulocladium									
Total	6	79	100%	2	27	100%			

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Significantly Higher than Baseline

Ratio Abnormality

Collected: Mar 6, 2021

Received: Mar 9, 2021

Reported: Mar 9, 2021

Project Analyst:

Shareef Abdelgadir, MS <

03 - 09 - 2021

Date:

Reviewed By:

Steve Hayes, BSMT Stephen 11. Abyus

Date:

03 - 09 - 2021

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

Page: 2 of 4

Channa Bambaradeniya Global, Inc.

1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 IAQ Assessment - PGCPS Isaac Gourdine

#21007926

Spore Trap Information

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:
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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. Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Significantly Higher than Baseline	
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.
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 damag indicators.



Channa Bambaradeniya Global, Inc.

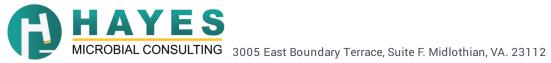
1818 New York Ave. Suite 217 Washington, DC, 20002 (443) 691-0455

20-064 IAQ Assessment - PGCPS Isaac Gourdine

#21007926

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.
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.
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.





Collector: Channa Bambaradeniya

Job Number: 20-064

Company: Global Inc

Address:

1818 New York Ave NE Suite 217

Job Name: IAQ Assessment- PGCP\$ Isaac Gourdine

Washington DC 20002

SHIP: FEDEX - PAK 50 DATE: 03-09-2021



8160 4411 5598

Mobile: 443-691-0455 Email: Channab@globalincusa.net Note:

Date	e Collected: 3/6/	2021					Note);	***************************************		
***************************************	Analysis Type	2		Analysis Descr	iption		Т	urnaround	00002000000000000000	Accepted Media Types	
Spor	Spore Trap S Identification		n & Enumeration of Fungal Spo		24 HourXX		Air	Air Cassettes, Impact Slides			
		S+	Spore Trap	Analysis with Dander, Fiber, and	Pollen counts		24 Hour		Air	Air Cassettes, Impact Slides	
Direc	et ID	D	ID & Semi-Q	uantative Enumeration of spore	es and mycelium		24 Hour		Bio	Bio-Tape, Tape, Swab, Bulk, Agar Plate	
		D+	Direct Analy	sis with Fully Quantitative spoi	re count		24 Hour		Bio	io-Tape, Tape, Swab, Bulk, Agar Plate	
Cultu	ure	C1	Identificatio	n & Enumeration of Mold only			7 Day		Air	ir Plate, Agar Plate, Swab, Bulk	
		C2	Identificatio	n & Enumeration of Bacteria or	nly		4 D	ay	Air	Plate, Agar Plate, Swab, Bulk	
		C3	Identificatio	n & Enumeration of Mold and E	Bacteria		7 Day		Air	Air Plate, Agar Plate, Swab, Bulk	
		C5	Coliform Sc	reen for Sewage Bacteria	\		2 Day		Aga	Agar Plate, Swab, Bulk	
Parti	icle	TPA	Total Partic	ulate Analysis, ID & Count (Doe	s Not Include Mold)		24	Hour	Air	Cassettes, Impact Slides, Bio-Tape	
#	Numb	er		Sample	<u> </u>	Analysis	3	Volume		Notes	
1	IG-0)1		Ambient		S		75L			
2	IG-0)2		Room 112		S		75L			
3								······································			
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Released by: Channa Bambaradeniya

Date: 3/6/2021

Received By: