



Environmental Consultants and Engineers

1818 New York Avenue Suite 217
Washington, DC 20002

www.globalincusa.net

June 10, 2019

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

Attention: Mr. Alex Baylor

RE: Indoor Air Quality Screening

Global Project Number: 19-015
School: Laurel High School

Dear Mr. Baylor,

On June 1, 2019, Global Inc.'s (GLOBAL) a team of Industrial Hygienists supervised by Certified Industrial Hygienist, Ms. Lauren Kessler, conducted an Indoor Air Quality Screening at Laurel High School located at 8000 Cherry Ln, Laurel, MD 20707.

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. 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.

Observations and Results

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.



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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.

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 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.

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%.

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 June 1, 2019, the outdoor (ambient) carbon dioxide concentration was approximately 459.5 ppm so indoor concentrations should not exceed approximately 1159.5 ppm (700 + 459.5). All indoor carbon dioxide measurements were within the ASHRAE standards.

Observations are presented in Table 1 and testing results are presented in Table 2.



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Table 1: Observations

Location	Observations
232	No issues found
233	No issues found
234	No issues found
237	No issues found
239	No issues found
265	No issues found
254	No issues found
252	No issues found
250	No issues found
245	No issues found
248	No issues found
243	No issues found
204	No issues found
205	No issues found
203	No issues found
144	No issues found
143	No issues found
146	No issues found
114	No issues found
115	No issues found
Kitchen	No issues found
132	No issues found
131	No issues found
133	No issues found
135	No issues found
136	No issues found
161	No issues found
154	No issues found
171	No issues found
153	No issues found
A213	No issues found
A206	No issues found
A229	No issues found
A204	No issues found
A232	No issues found



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Table 2: Air Quality Results

Sample Location	Temp °F	RH%	CO ppm	CO2 ppm	Normal Fungal Ecology?
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1159.5	
Ambient	80.45	43.25	0	459.5	N/A
232	78.35	55.35	0	456.5	Yes
233	80.55	51.45	0	619	Yes
234	79.75	52.45	0	491.5	Yes
237	76.2	47.1	0	402.5	Yes
239	71.15	51.85	0	420.5	Yes
265	69	56.85	0	425	Yes
254	69.15	61.2	0	466	Yes
252	68.65	61.2	0	404	Yes
250	68.15	60.95	0	409	Yes
245	74.35	61	0	448	Yes
248	77.1	58.65	0	508	Yes
243	78.3	56.25	0	551	Yes
204	79.15	51.7	0	427	Yes
205	79.35	50.65	0	448.5	Yes
203	79.35	50.15	0	392	Yes
144	77.85	55.7	0	548.5	Yes
143	77.35	53.55	0	471.5	Yes
146	74.95	50.7	0	462	Yes
114	77.75	56.9	0	573	Yes



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Sample Location	Temp °F	RH%	CO ppm	CO2 ppm	Normal Fungal Ecology?
Standards	ASHRAE 68 to 75°F	ASHRAE <65%	NAAQS <9	ASHRAE 1159.5	
115	77.6	55.5	0	434.5	Yes
Kitchen	78	56.5	0	491.5	Yes
132	77.55	52.65	0	369	Yes
131	77.65	53.2	0	458	Yes
133	76.75	54.95	0	459	Yes
135	74.6	54.95	0	422.5	Yes
136	73.6	54.25	0	444	Yes
161	73.35	57.05	0	468.5	Yes
154	73.35	58.6	0	492.5	Yes
171	73.05	56.1	0	462.5	Yes
153	73.95	57.15	0	433.5	Yes
A213	76.35	47.9	0	601	Yes
A206	75.75	51.2	0	588	Yes
A229	74.95	51.9	0	660.5	Yes
A204	74.4	53.15	0	481.5	Yes
A232	74.35	51.35	0	537.5	Yes



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Conclusions

No indoor air quality issues related to mold were found during the screening performed on June 1, 2019, and all mold samples were found to have a normal ecology for an indoor environment.

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,

A handwritten signature in black ink, appearing to read "Lauren E. Kesslak".

Lauren E. Kesslak, MS, CIH, CSP
Certified Industrial Hygienist

Analysis Report prepared for

Global, Inc.

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

Phone: (443) 691-0455

19-015
Laurel HS

Collected: **June 3, 2019**
Received: **June 4, 2019**
Reported: **June 4, 2019**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 36 samples by FedEx in good condition for this project on June 4th, 2019.

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



NVLAP Lab Code: 500096-0



DPH License: #PH-0198

Sample Number	1	LAUR/6119-01			2	LAUR/6119-02			3	LAUR/6119-03			4	LAUR/6119-04		
Sample Name	Ambient			232			233			234						
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	40/m ³			ND			ND			ND						
Organism	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total				
Alternaria	1	13	<1%													
Ascospores	640	8533	76.4%	14	187	82.4%	2	27	100.0%	2	27	33.3%				
Aspergillus Penicillium	3	40	<1%													
Basidiospores	176	2347	21.0%	3	40	17.6%				4	53	66.7%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium	16	213	1.9%													
Curvularia																
Epicoccum	2	27	<1%													
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	838	11173	100%	17	227	100%	2	27	100%	6	80	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Collected: Jun 3, 2019

Received: Jun 4, 2019

Reported: Jun 4, 2019

Project Analyst:
Ramesh Poluri, PhD

P. Ramesh

Date:
06 - 04 - 2019

Reviewed By:
Steve Hayes, BSMT

Stephen N. Hayes

Date:
06 - 04 - 2019

Sample Number	5	LAUR/6119-05			6	LAUR/6119-06			7	LAUR/6119-07			8	LAUR/6119-08		
Sample Name	237			239			265			254						
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			1						
Fragments	ND			ND			ND			ND						
Organism	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total				
Alternaria																
Ascospores	3	40	100.0%	1	13	100.0%	1	13	33.3%	1	13	100.0%				
Aspergillus Penicillium																
Basidiospores							2	27	66.7%							
Bipolaris Drechslera																
Chaetomium																
Cladosporium																
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	3	40	100%	1	13	100%	3	40	100%	1	13	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Ramesh Poluri, PhD *P. Ramesh*

Date:
06 - 04 - 2019

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

Date:
06 - 04 - 2019

Sample Number	9	LAUR/6119-09			10	LAUR/6119-10			11	LAUR/6119-11			12	LAUR/6119-12		
Sample Name	252			250			245			248						
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	1			2			2			1						
Fragments	ND			ND			ND			ND						
Organism	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total				
Alternaria																
Ascospores	5	67	83.3%	1	13	25.0%	8	107	88.9%	4	53	80.0%				
Aspergillus Penicillium																
Basidiospores	1	13	16.7%	3	40	75.0%	1	13	11.1%	1	13	20.0%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium																
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	6	80	100%	4	53	100%	9	120	100%	5	66	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Project Analyst: Ramesh Poluri, PhD *P. Ramesh* Date: **06 - 04 - 2019** Reviewed By: Steve Hayes, BSMT *Stephen N. Hayes* Date: **06 - 04 - 2019**

Sample Number	13	LAUR/6119-13			14	LAUR/6119-14			15	LAUR/6119-15			16	LAUR/6119-16		
Sample Name	243			204			205			203						
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 / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total				
Alternaria																
Ascospores	15	200	78.9%	64	853	66.7%	96	1280	82.1%	48	640	80.0%				
Aspergillus Penicillium							1	13	<1%							
Basidiospores	4	53	21.1%	30	400	31.3%	20	267	17.1%	12	160	20.0%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium				2	27	2.1%										
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	19	253	100%	96	1280	100%	117	1560	100%	60	800	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Date:
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Sample Number	17	LAUR/6119-17			18	LAUR/6119-18			19	LAUR/6119-19			20	LAUR/6119-20										
Sample Name	114						143						146						114					
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	1						2						2						2					
Fragments	ND						ND						ND						ND					
Organism	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total									
Alternaria																								
Ascospores	3	40	100.0%	80	1067	74.8%	10	133	76.9%	40	533	78.4%												
Aspergillus Penicillium																								
Basidiospores				24	320	22.4%	3	40	23.1%	11	147	21.6%												
Bipolaris Drechslera																								
Chaetomium																								
Cladosporium				3	40	2.8%																		
Curvularia																								
Epicoccum																								
Fusarium																								
Memnoniella																								
Myxomycetes																								
Pithomyces																								
Stachybotrys																								
Stemphylium																								
Torula																								
Ulocladium																								
Total	3	40	100%	107	1427	100%	13	173	100%	51	680	100%												

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Sample Number	21	LAUR/6119-21			22	LAUR/6119-22			23	LAUR/6119-23			24	LAUR/6119-24		
Sample Name	115			Kitchen			132			131						
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	1			1			1			1						
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	32	427	76.2%	3	40	100.0%	4	53	80.0%	3	40	100.0%				
Aspergillus Penicillium																
Basidiospores	10	133	23.8%				1	13	20.0%							
Bipolaris Drechslera																
Chaetomium																
Cladosporium																
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	42	560	100%	3	40	100%	5	66	100%	3	40	100%				

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Date:
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Sample Number	25	LAUR/6119-25			26	LAUR/6119-26			27	LAUR/6119-27			28	LAUR/6119-28		
Sample Name	133			135			136			161						
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			1			1			2						
Fragments	ND			ND			ND			ND						
Organism	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total				
Alternaria																
Ascospores	7	93	87.5%	2	27	100.0%	1	13	50.0%	5	67	55.6%				
Aspergillus Penicillium																
Basidiospores	1	13	12.5%				1	13	50.0%	1	13	11.1%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium										3	40	33.3%				
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	8	106	100%	2	27	100%	2	26	100%	9	120	100%				

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Sample Number	29	LAUR/6119-29			30	LAUR/6119-30			31	LAUR/6119-31			32	LAUR/6119-32		
Sample Name	154			171			153			A213						
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 / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total	Raw Count	Count / m³	% of Total				
Alternaria																
Ascospores	7	93	87.5%	14	187	93.3%	11	147	100.0%	48	640	87.3%				
Aspergillus Penicillium																
Basidiospores	1	13	12.5%	1	13	6.7%				7	93	12.7%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium																
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	8	106	100%	15	200	100%	11	147	100%	55	733	100%				

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Sample Number	33	LAUR/6119-33			34	LAUR/6119-34			35	LAUR/6119-35			36	LAUR/6119-36		
Sample Name	A206			A229			A204			A232						
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	1			2			1			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	2	27	100.0%	20	267	87.0%	1	13	100.0%	5	67	83.3%				
Aspergillus Penicillium																
Basidiospores				3	40	13.0%				1	13	16.7%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium																
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	2	27	100%	23	307	100%	1	13	100%	6	80	100%				

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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 <i>Aspergillus</i> and <i>Penicillium</i> 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

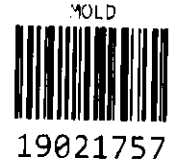
Alternaria	Habitat: Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces. Effects: A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be 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.
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.



Company: Global Inc.
 Address: 1818 New York Ave NE Suite 21
Washington, DC 20002

N

SHIP: FEDEX - PAK 50
 DATE: 06-04-2019



7753 7176 5417



Job Number: 19-015
 Collector: L. Kessler
 Date Collected:

Job Name: Laurel HS

Mobile: 814-241-9105 Email: Lauren.K.Global@inc.usa.net
 Note:

Analysis Type	Analysis Description	Turnaround	Accepted Media Types	
Spore Trap	S	Identification & Enumeration of Fungal Spores	24 Hour	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					
2					
3		See attached			
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Released by: [Signature] Date: 6-3-19 Received By: [Signature] Date: 6/4/19

SHIP: FEDEX - PAK 50
DATE: 06-04-2019

N

7753 7176 5417

MOLD
19021757

Laurel High School

Sample ID	Location	A	75
LAUR/6119-01	Ambient	S	75
LAUR/6119-02		S	75
LAUR/6119-03		S	75
LAUR/6119-04		S	75
LAUR/6119-05		S	75
LAUR/6119-06		S	75
LAUR/6119-07		S	75
LAUR/6119-08		S	75
LAUR/6119-09		S	75
LAUR/6119-10		S	75
LAUR/6119-11		S	75
LAUR/6119-12		S	75
LAUR/6119-13		S	75
LAUR/6119-14		S	75
LAUR/6119-15		S	75
LAUR/6119-16		S	75
LAUR/6119-17		S	75
LAUR/6119-18		S	75
LAUR/6119-19		S	75
LAUR/6119-20		S	75
LAUR/6119-21		S	75
LAUR/6119-22	Kitchen	S	75
LAUR/6119-23		S	75
LAUR/6119-24		S	75
LAUR/6119-25		S	75
LAUR/6119-26		S	75
LAUR/6119-27		S	75
LAUR/6119-28		S	75
LAUR/6119-29		S	75
LAUR/6119-30		S	75
LAUR/6119-31		S	75
LAUR/6119-32		S	75
LAUR/6119-33		S	75
LAUR/6119-34		S	75
LAUR/6119-35		S	75
LAUR/6119-36		S	75

AP

V

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