

#20035837

Analysis Report prepared for

BNF Consulting, Inc.

152 Rt 202, #404 Lincolndale, NY 10540

Phone: (914) 610-8001

16292 ABC Street

Collected: October 1, 2020 Received: October 5, 2020 Reported: October 5, 2020 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 16 samples by FedEx in good condition for this project on October 5th, 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.

Ephen N. Hoyces

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



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

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

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Justin Joe BNF Consulting, Inc. 152 Rt 202, #404

Lincolndale, NY 10540

16292

#20035837

SOP - HMC#101

Sample Number	1	0	1	2	0	2	3	0	3	4	0	4
Sample Name		Control			Basement			Kitchen			Foyer	
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	3
Background		1			2			2			2	
Fragments		13/m ³			ND			13/m ³			13/m 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 Tota
Alternaria	3	40	<1%									
Ascospores	176	2347	48.0%	3	40	<1%				1	13	8.39
spergillus Penicillium	4	53	1.1%	320	4267	98.5%	10	133	83.3%	7	93	58.39
Basidiospores	112	1493	30.5%	1	13	<1%				1	13	8.39
Bipolaris Drechslera												
Chaetomium												
Cladosporium	48	640	13.1%				1	13	8.3%	3	40	25.0
Curvularia												
Epicoccum	1	13	<1%	1	13	<1%						
Fusarium												
Memnoniella												
Myxomycetes	19	253	5.2%									
Pithomyces												
Stachybotrys												
Stemphylium												
Torula	1	13	<1%									
Ulocladium												
Cercospora	3	40	<1%									
Dactylosporium							1	13	8.3%			
Total	367	4892	100%	325	4333	100%	12	159	100%	12	159	100
Water Damage Indicator		Commo	n Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	ity
		Collected: Oct 1	2020	Rece	eived: Oct 5, 202	20	Benorted.	Oct 5, 2020				

Date:

10 - 05 - 2020



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Reviewed By:

contact@hayesmicrobial.com

Steve Hayes, BSMT Stephen 71. Abyes

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Date:

10 - 05 - 2020

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SOP - HMC#101

Sample Number	5	0	5	6	0	6	7	0	7	8	0	8
Sample Name	L	iving Room		West R	ight Front F	acing	Eas	st Center Ha	all	Lef	t Front Faci	ng
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		1
Background		2			2			2		2		
Fragments		ND			ND			ND			13/m 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 Tota
Alternaria		Count / III		naw count	Count / III			Count / III	% OF TOTAL	naw count	Count / III	~ 01 10ta
Ascospores	1	13	4.8%	2	27	28.6%	1	13	12.5%	7	93	43.89
spergillus/Penicillium	20	267	95.2%		21	20.0%		10	12.0%	3	40	18.89
Basidiospores		201	50.2.10							1	13	6.39
Bipolaris Drechslera												
Chaetomium												
Cladosporium				5	67	71.4%	5	67	62.5%	4	53	25.09
Curvularia												
Epicoccum										1	13	6.3%
Fusarium												
Memnoniella												
Myxomycetes							1	13	12.5%			
Pithomyces							1	13	12.5%			
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Cercospora												
Dactylosporium												
Total	21	280	100%	7	94	100%	8	106	100%	16	212	1009
Water Damage Indicator	7	Commo	n Allergen		Slightly Higher	than Baseline	Signi	ficantly Higher	than Baseline		Ratio Abnormal	ity
		Collected: Oct 1	, 2020	Rece	eived: Oct 5, 202	20	Reported:	Oct 5, 2020				
HAY	ES	Project Analyst: Ramesh Poluri,	Php P. C	ames	An	Date: 10 - 05 - 202	Reviewe	ed By:	Honlan 1	1. Hayes	Date:	5 - 2020
MICROBIAL CO	NSULTING	namesti Poluli,		Coursed and	2.2	10-05-202	Steve H		manner /	· · · · · · · ·	- 10-0	5-2020

152 Rt 20	onsulting, Inc. 02, #404 ale, NY 10540			#20035837 Direct Analysis SOP - HMC#102
#9	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
09 - We	est Attic	Alternaria	Very Heavy	Few
		Cladosporium	Heavy	Many
#10	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
10 - Ea	st Attic	Alternaria	Very Heavy	Many
		Cladosporium	Heavy	Few
#11	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
11 - We	est Bathroom	Cladosporium	Heavy	Many
#12	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
12 - Ea	st Bathroom	Cladosporium	Heavy	Many
#13	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
13 - Ce	nter Bath 1st Floor	Cladosporium	Very Heavy	Many
#14	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
14 - We	est Living Room 1st Floor	Cladosporium	Heavy	Many
#15	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
15 - No	orth Crawl Space	Aspergillus Penicillium	Very Heavy	Many

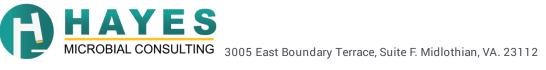
		Collected: Oct 1, 2020	Received: Oct 5, 2020	Reported: Oct	5, 2020	
Ð	HAYES MICROBIAL CONSULTING	Project Analyst: Ramesh Poluri, PhD P. Ray	nesh Date: 10-0	Reviewed By 5 - 2020 Steve Hayes,	BSMT Stephen N. Hoycs	Date: 10 - 05 - 2020
	MICROBIAL CONSOLTING	3005 East Boundary Terrace, Su	ite F. Midlothian, VA. 23112	(804) 562-3435	contact@hayesmicrobial.com	Page: 4 of 9

Justin Joe BNF Consulting, Inc.	16292			#20035837
152 Rt 202, #404 Lincolndale, NY 10540 (914) 610-8001				Direct Analysis SOP - HMC#102
#16	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
16 - East Crawl Space		Aspergillus Penicillium	Very Heavy	Many

	Collected: Oct 1, 2020	Received: Oct 5, 2020	Reported: Oct 5, 2020	
HAYES	Project Analyst: Ramesh Poluri, PhD P. Ram	Date:	Reviewed By: Steve Hayes, BSMT	1 H Date:
MICROBIAL CONSULTING	Ramesh Poluri, PhD	10 - 05 - 2020	Steve Hayes, BSMT	1. Abyls 10-05-2020
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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.
-	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.
Slightly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Significantly Higher than Baseline	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
Ratio Abnormality	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 indoc environment than it was outdoors.
Color Coding	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.



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Direct Analysis Information

Spore Estimate		Percentages
ND	None Detected	0%
Rare	Less than 10 spores	< 1%
Light	10 - 99 spores	1-10%
Moderate	100 - 999 spores	11-25%
Heavy	1000 - 9999 spores	26-50%
Very Heavy	10000 or greater spores	51-100%

Mycelial Estimate					
ND	None Detected No active growth at site.				
Trace	Very small amount of Mycelium Probably no active growth at site.				
Few	Some Mycelium Possible active growth at site.				
Many	Large amount of Mycelium Probable active growth at site.				



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Alternaria	Habitat:	Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and o	other horizontal surfaces.
	Effects:	A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of pro may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated o sinusitis, principally in the immunocompromised patient.	
Ascospores	Habitat:	A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numb rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.	ers become very high following
	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 materia a wide variety of substrates.	al. Are able to grow well indoors on
	Effects:	This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in huma production is dependent on the species, the food source, competition with other organisms, and other envir	ans and other animals. Toxin
Basidiospores	Habitat:	A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant can cause structural damage to buildings.	pathogens. In wet conditions they
	Effects:	Common allergens and are also associated with hypersensitivity pneumonitis.	
Cercospora	Habitat:	Found on wood and decaying plant matter.	
	Effects:	Health effects are poorly studied.	
Cladaanavium	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
Cladosporium	. asrat.	lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor number and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC	s often spike in the late afternoon
	Effects:	A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity produced and the second sec	neumonitis.



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152 Rt 202, #404 Lincolndale, NY 10540 (914) 610-8001			Organism Descriptions
Dactylosporium	Habitat: Found	on wood and decaying plant matter.	
	Effects: Health e	effects are poorly studied.	
Epicoccum		nd in soil and plant litter and is a plant pathogen. It can grow indoors on a vari nly found on wet drywall.	iety of substrates, including paper and textiles and is
		ommon allergen. No cases of infection have been reported in humans.	
Myxomycetes	Habitat: Found	on decaying plant material and as a plant pathogen.	
	Effects: Some a	llergenic properties reported, but generally pose no health concerns to humans	s.
Pithomyces	Habitat: Commo	on fungus isolated from soil, decaying plant material. Rarely found indoors.	
	Effects: Allerger	nic properties are poorly studied. No cases of infection in humans.	
Torula		in soil and on wood and grasses. Occasionally found growing indoors on cellu	lose containing materials.
	Effects: A know	n allergen. No known cases of human infection.	

