

Analysis Report prepared for

# Restoration 1 of Southern West Virginia

81 Brookeview Manor Drive  
Chapmanville, WV 25508

Phone: (304) 601-4900


Kermit Middle #2

Received: **October 11, 2022**  
Reported: **October 11, 2022**

We would like to thank you for trusting Hayes Microbial for your analytical needs!  
We received 37 samples by FedEx in good condition for this project on October 11th, 2022.

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

**Corey Preece**  
**Restoration 1 of Southern West Virginia**

81 Brookeview Manor Drive  
 Chapmanville, WV 25508  
 (304) 601-4900

Kermit Middle #2

#22040179

**Spore Trap**  
 SOP - HMC#101

Sample Number	1			2			3			4		
Sample Name	Outside			Music Modular			Room 134			Room 135		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	27/m <sup>3</sup>			ND			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	256	3413	58.9%	2	27	50.0%	2	27	100.0%	1	13	100.0%
Aspergillus Penicillium	3	40	<1%									
Basidiospores	140	1867	32.2%	1	13	25.0%						
Bipolaris Drechslera												
Chaetomium												
Cladosporium	35	467	8.0%									
Curvularia	1	13	<1%									
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				1	13	25.0%						
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	435	5800	100%	4	53	100%	2	27	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*

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**Spore Trap**  
 SOP - HMC#101

Sample Number	5			6			7			8		
Sample Name	Room 136			Room 137			Boy's Restroom			Girl's Restroom		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	2	27	66.7%	6	80	75.0%	2	27	40.0%	2	27	40.0%
Aspergillus Penicillium							1	13	20.0%			
Basidiospores	1	13	33.3%	1	13	12.5%						
Bipolaris Drechslera												
Chaetomium												
Cladosporium										1	13	20.0%
Curvularia				1	13	12.5%	2	27	40.0%			
Epicoccum										1	13	20.0%
Fusarium												
Memnoniella												
Myxomycetes										1	13	20.0%
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
<b>Total</b>	<b>3</b>	<b>40</b>	<b>100%</b>	<b>8</b>	<b>106</b>	<b>100%</b>	<b>5</b>	<b>67</b>	<b>100%</b>	<b>5</b>	<b>66</b>	<b>100%</b>

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**Spore Trap**  
 SOP - HMC#101

Sample Number	9			10			11			12		
Sample Name	Room 140			Room 141			Room 143			Room 144		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	1	13	4.5%	2	27	100.0%	3	40	75.0%	3	40	75.0%
Aspergillus Penicillium	15	200	68.2%									
Basidiospores							1	13	25.0%			
Bipolaris Drechslera												
Chaetomium												
Cladosporium	5	67	22.7%									
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes	1	13	4.5%									
Pestalotiopsis										1	13	25.0%
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	22	293	100%	2	27	100%	4	53	100%	4	53	100%

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**Spore Trap**  
 SOP - HMC#101

Sample Number	13			14			15			16		
Sample Name	Room 145			Lunch Room			Gym			Girls Locker Room		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	2	27	66.7%	2	27	100.0%	3	40	75.0%	4	53	66.7%
Aspergillus Penicillium												
Basidiospores	1	13	33.3%				1	13	25.0%	1	13	16.7%
Bipolaris Drechslera												
Chaetomium												
Cladosporium										1	13	16.7%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
<b>Total</b>	<b>3</b>	<b>40</b>	<b>100%</b>	<b>2</b>	<b>27</b>	<b>100%</b>	<b>4</b>	<b>53</b>	<b>100%</b>	<b>6</b>	<b>79</b>	<b>100%</b>

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**Spore Trap**  
 SOP - HMC#101

Sample Number	17			18			19			20		
Sample Name	Boy's Locker Room			Kitchen			Library			Room Next To Library		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	ND			13/m <sup>3</sup>			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	2	27	100.0%	2	27	50.0%	2	27	100.0%	2	27	50.0%
Aspergillus Penicillium												
Basidiospores				1	13	25.0%				1	13	25.0%
Bipolaris Drechslera												
Chaetomium												
Cladosporium				1	13	25.0%						
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes										1	13	25.0%
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	2	27	100%	4	53	100%	2	27	100%	4	53	100%

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**Spore Trap**  
 SOP - HMC#101

Sample Number	21			22			23			24		
Sample Name	Office			Office Restroom			Break Room			Room 148		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	1	13	50.0%	1	13	14.3%	2	27	100.0%	2	27	66.7%
Aspergillus Penicillium												
Basidiospores										1	13	33.3%
Bipolaris Drechslera												
Chaetomium												
Cladosporium	1	13	50.0%	5	67	71.4%						
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				1	13	14.3%						
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	2	26	100%	7	93	100%	2	27	100%	3	40	100%

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**Spore Trap**  
 SOP - HMC#101

Sample Number	25			26			27			28		
Sample Name	Room 150			Girl's Restroom			Boy's Restroom			Room 153		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	3	40	100.0%	1	13	20.0%	2	27	66.7%	2	27	100.0%
Aspergillus Penicillium				4	53	80.0%						
Basidiospores												
Bipolaris Drechslera												
Chaetomium												
Cladosporium							1	13	33.3%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
<b>Total</b>	<b>3</b>	<b>40</b>	<b>100%</b>	<b>5</b>	<b>66</b>	<b>100%</b>	<b>3</b>	<b>40</b>	<b>100%</b>	<b>2</b>	<b>27</b>	<b>100%</b>

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**Spore Trap**  
 SOP - HMC#101

Sample Number	30			31			32			33		
Sample Name	Room 155			Room 157			Room 159			Room 160		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	2	27	66.7%	4	53	80.0%	1	13	100.0%	1	13	50.0%
Aspergillus Penicillium												
Basidiospores				1	13	20.0%						
Bipolaris Drechslera												
Chaetomium												
Cladosporium										1	13	50.0%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes	1	13	33.3%									
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	3	40	100%	5	66	100%	1	13	100%	2	26	100%

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**Spore Trap**  
 SOP - HMC#101

Sample Number	34			35			36			37		
Sample Name	Room 161			Room 162			Room 163			Elementary Hall		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total
Alternaria												
Ascospores	2	27	100.0%	1	13	10.0%	1	13	33.3%	2	27	66.7%
Aspergillus Penicillium												
Basidiospores										1	13	33.3%
Bipolaris Drechslera												
Chaetomium												
Cladosporium				9	120	90.0%	2	27	66.7%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pestalotiopsis												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	2	27	100%	10	133	100%	3	40	100%	3	40	100%

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**Spore Trap**  
 SOP - HMC#101

Sample Number	38					
Sample Name	Middle School Hall					
Sample Volume	75.00 liter					
Reporting Limit	13 spores/m <sup>3</sup>					
Background	2					
Fragments	ND					
<b>Organism</b>	<b>Raw Count</b>	<b>Count / m<sup>3</sup></b>	<b>% of Total</b>			
Alternaria						
Ascospores	2	27	40.0%			
Aspergillus Penicillium						
Basidiospores	1	13	20.0%			
Bipolaris Drechslera						
Chaetomium						
Cladosporium	1	13	20.0%			
Curvularia	1	13	20.0%			
Epicoccum						
Fusarium						
Memnoniella						
Myxomycetes						
Pestalotiopsis						
Pithomyces						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
<b>Total</b>	<b>5</b>	<b>66</b>	<b>100%</b>			

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**Spore Trap Information**

<b>Reporting Limit</b>	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.										
<b>Blanks</b>	Results have not been corrected for field or laboratory blanks.										
<b>Background</b>	<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><b>NBD:</b> No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p><b>1 :</b> &lt;5% of field occluded. No spores will be uncountable.</p> <p><b>2 :</b> 5-25% of field occluded.</p> <p><b>3 :</b> 25-75% of field occluded.</p> <p><b>4 :</b> 75-90% of field occluded.</p> <p><b>5 :</b> &gt;90% of field occluded. Suggested recollection of sample.</p>										
<b>Fragments</b>	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.										
<b>Control Comparisons</b>	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.										
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<b>Color Coding</b>	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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<b>Ascospores</b>	<b>Habitat:</b> 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.
	<b>Effects:</b> Health affects are poorly studied, but many are likely to be allergenic.

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<b>Aspergillus Penicillium</b>	<b>Habitat:</b> 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.
	<b>Effects:</b> 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.

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<b>Basidiospores</b>	<b>Habitat:</b> 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.
	<b>Effects:</b> Common allergens and are also associated with hypersensitivity pneumonitis.

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<b>Cladosporium</b>	<b>Habitat:</b> 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.
	<b>Effects:</b> A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.

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<b>Curvularia</b>	<b>Habitat:</b> They exist in soil and plant debris, and are plant pathogens.
	<b>Effects:</b> 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.

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<b>Epicoccum</b>	<b>Habitat:</b> 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.
	<b>Effects:</b> It is a common allergen. No cases of infection have been reported in humans.

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**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.

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**Pestalotiopsis**

**Habitat:** Found in soil and occasionally on plants. Some species can break down plastics.

**Effects:** No known health effects. Allergenic properties are poorly studied.

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