PINNACLE CONSULTANTS

10 Independent Avenue
Nitro, West Virginia 25143

Office: 304-757-5204
Fax: 304-440-3465

www.pinnaclecorp.net

MOLD ASSESSMENT REPORT

August 24, 2026

Custom Services
533R 3rd Ave
Huntington, WV 25701

Pinnacle Project No: 26-597
Re: CK Elementary

Pinnacle Consultants (Pinnacle) conducted a mold assessment at your request. The purpose of this inspection was to determine fungal levels throughout the school. Air samples and tape-lift samples were taken to confirm the presence of biological material to determine the levels of fungal spores.

For this project, a total of twelve (12) airs and three (3) tape lift samples were collected.

Findings

Observations made at the time of the testing suggest the lack of proper maintenance and cleaning of the HVAC vents. A regular scheduled maintenance and cleaning protocol should be developed to help alleviate this issue.

The laboratory analysis result for the air sampling indicated **elevated** levels at the time of testing in the following areas:

Sample #: 597-12 – Room 212 – ***Chaetomium*** These are typically found indoors on water damaged cellulose containing materials such as paper, sheetrock, and wallpaper. Not well studied but possible allergen with hay fever and asthma effects

The laboratory analysis result for the tape-lift samples collected show the following **elevated** levels:

Sample # 597-1T - Tape Hall Vent Rm 190 – ***Cladosporium*** One of the most common genera in both the indoor and outdoor environments. Indoors they grow

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well in damp environments and areas where condensation builds. They are often found on textiles, windowsills, in bathrooms, and A/C systems. They are a common allergen when airborne. And ***Curvularia*** Primarily found outdoors on plants and soil especially in subtropical and tropical environments. Indoors they grow on a variety of building materials. They are a common allergen causing hay fever, asthma, and allergic fungal sinusitis.

Sample # 597-4T – Room 182 Vent – ***Pithomyces*** These are typically found on dead leaves and stems of plants. Rarely found growing indoors; however, they grow well on paper indoors given the right conditions. And ***Curvularia***.

Sample 597-06T – Room 169 Bath Ceiling – ***Cladosporium***.

The presence of hyphae associated with these fungal structures indicates active fungal growth on the sampled surface rather than the simple deposition of airborne spores. Hyphae are the thread-like filamentous structures that make up the vegetative portion (mycelium) of a mold colony and are responsible for nutrient absorption and colony growth.

It's important to note that individual sensitivity to mold spores can vary, and not everyone exposed to these molds will experience health effects. Those with pre-existing respiratory conditions, allergies, or compromised immune systems are generally more susceptible to mold-related health effects. If you suspect mold exposure and experience persistent health symptoms, consider consulting a medical professional for proper evaluation and guidance.

As part of the Indoor Air Quality investigation, relative humidity levels, carbon dioxide and temperatures are checked at the time of sample collection.

ASHRAE recommends a relative humidity (rH) between 20-60%. At the time of testing the humidity level **were above** the recommended range.

ASHRAE recommends the temperature be between 68°-79° Fahrenheit. At the time of testing the temperature **were within** the recommended range.

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Carbon Dioxide (CO) levels are utilized as an overall check on air exchanges and the ability of the system to bring fresh air into the area. ASHRAE recommends Carbon Dioxide levels do not exceed 700 above the outside levels. Carbon Dioxide level **were above** the recommended range.

Location	Temp (F)	rH%	CO
Rm 190 Hall	74.3	47.1	**1390**
Rm 182	72	48.4	514
Rm 144	73.9	51	653
Rm 179	68.7	54.5	556
Rm 231	68.9	55.5	**2110**
Rm 238	70.0	59.5	**2594**
Rm 224	70.3	55.3	**2461**
Rm 217	67.6	**62.1**	**2589**
Rm 212	68.6	**60.4**	**2352**
Café	66.5	56.9	515
Rm 111	68.2	**69.4**	474
Outside	83.4	71.1	370

RECOMMENDATIONS

Although the airborne mold spore concentrations do not indicate a significant indoor fungal amplification, the tape-lift samples collected confirm the presence of localized fungal growth.

Based upon the observations and analytical results Pinnacle makes the following recommendations. Pinnacle recommends all remediation be performed by properly trained and equipped professionals, following the **Institute of Inspection, Cleaning and Restoration Certification (IICRC) S520 Guidelines** and using HEPA-filtered air filtration devices (AFDs), air scrubbers and vacuums along with a proper containment system to prevent the mold spores from spreading to unaffected areas. Proper PPE including P100 equipped respirators should be used to protect the workers. Prior to cleaning, all issues regarding excess moisture should be addressed to prevent further or additional contamination. In addition, Pinnacle recommends:

a. No Federal, State or Local regulations exist regarding mold exposure levels or remediation requirements.

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b. Any building material which may be disturbed during this project **must** be tested for asbestos content prior to disturbance, **regardless of construction or manufacture date** according to WV State regulation 64-CSR-63 and EPA regulations. The contractor must follow all EPA, OSHA, and State of WV Regulations regarding Lead Paint, Asbestos, Respiratory Protection, or any other applicable standard.

c. Pinnacle recommends the following products or similar for cleaning, and sealing of surfaces:

a. Benefect Botanical DECON 30 or ShockWave by Fiberlock Technologies for cleaning.
b. Bad Axe Particle Conqueror as a particle suppressant.
c. AfterShock or IAQ6000 by Fiberlock Technologies as a sealant.
d. A hydrogen peroxide or chlorine-based product may be used to help eliminate any staining. **Bleach is strongly discouraged.**
e. Follow all manufacturers' instructions for any product being utilized for cleaning, particle suppressant or sealant.

d. Containment of the work area and airflow management is recommended; the work area should be covered with plastic sheet(s) and sealed with tape before remediation, to contain dust/debris. All openings should be sealed, as required, with critical barriers constructed of 1 layer of (6 mil) polyethylene. All microbial contaminated waste should be double bagged or wrapped in (6 mil) polyethylene. The designated work area should include taping along seams, isolating HVAC system, sealing all openings, and regulated HEPA filtered intake air from outside and a HEPA negative air system exhausting the work area to outside. Provide negative air pressure within the containment area utilizing variable speed, thermal protected HEPA air filtration system with:

a. Primary two stage poly filter (35% efficiency)
b. Secondary pleated poly filter (70% efficiency)
c. Final HEPA filter (99.97% @ 0.3-micron efficiency)
d. Utilize carbon assisted HEPA air polishers for 24 hours to provide final level of microbial remediation.

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e. Provide mechanical dehumidifiers of sufficient capacity to create an effective drying system.

f. Respiratory protection (e.g., minimum of N95 disposable respirator), in accordance with the OSHA respiratory protection standard (29 CFR 1910.134), is recommended. Gloves and eye protection should be worn.

g. During cleaning, vacating people from spaces adjacent to the work area is not necessary but is recommended in the presence of infants (less than 12 months old), those recovering from recent surgery, immune suppressed people, or people with chronic inflammatory diseases (e.g., asthma, hypersensitivity pneumonitis, and severe allergies), and people diagnosed with fungal related diseases.

h. Have HVAC system cleaned professionally and inspected regularly.

i. All surfaces should be HEPA vacuumed and cleaned to remove settled dust and fungal spores.

j. After the surfaces are properly cleaned and dried, a particulate suppressant may be used to help pull any spores out of the air. After the suppressant is dried, HEPA vacuum the surfaces again.

Please see attached laboratory results for chain of custody, complete sample location, and description information.

The samples were collected in accordance with generally accepted standards including the ACGIH and AIHA's *Field Guide for the Determination of Biological Contaminants in Environmental Samples*.

There are currently no numerical standards for exposure to mold due to the varying immunologic susceptibility of individuals and the limited available data concerning dose-response relationships. Due to the lack of any numerical standards, the interpretation of data for airborne levels generally focuses on the genera and species identified, comparisons of different environments (e.g. outdoor vs. indoor levels, complaint areas vs. non-complaint areas) and the potential susceptibility of people who are exposed to different microbial agents. The levels of airborne fungal particles may fluctuate greatly depending on the weather, humidity, air movement, and other activities within the environment. This report does not cover any other type of testing that may be required prior to

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any remediation effort including asbestos or lead-based paint.

The laboratory analysis data from this assessment represents the conditions that existed at the specific location(s) sampled and only at the time of the sampling and shall not be construed as representing or predicting conditions that may exist at a later date. Airborne samples are a "snapshot-in-time" of the fungal presence at the time and location of the sampling. Because of the limitation of this type of sampling, the laboratory results, as presented in this report, may not represent all the conditions extant at the time of the testing.

Pinnacle Consultants, its employees or subcontractors, shall not be legally responsible for any direct, indirect, incidental, special, consequential or exemplary damages, including (but not restricted to) damages for loss of investment, value, use, expenditure, or another intangible losses (even if Pinnacle has been advised of the possibility of such damages), resulting from: The use or the inability to use this document or previously related documentation issued by Pinnacle; Statements or behavior of any third party; or Any other matter relating to our efforts regarding the referenced property. On no occasion shall total legal responsibility to any party concerned for all damages, losses, and causes of action go beyond the amount paid to Pinnacle for the preparation and publication of this specific document. Every attempt was made to gain access to each area or to access areas of complaint or suspicion based upon information made available to Pinnacle. Pinnacle Consultants accepts no liability nor makes any claims regarding areas that were not accessible during the inspection process. Especially if such areas were located behind or within walls, concrete decks, sub-floors, chases, or were otherwise generally inaccessible without destructive sampling.

This report is based upon conditions and practices observed at the property and information made available to the sampling professional. This report does not intend to identify all hazards or unsafe practices, or to indicate that other hazards or unsafe practices do not exist at the premises.

This report or any statements or information contained herein shall not be interpreted to imply any conclusions or opinions related in any manner as to whether any potential health risks to individuals exposed to the building environments were or were not present at the time of our inspection or may or may not develop at some time in the future. Furthermore, this report or any statements of information contained herein shall not be interpreted as validation of the adequacy or completeness of the mold remediation efforts which may have been performed by others. Information regarding the mold remediation effort

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which may have been conducted on this property should be obtained from the owner/seller.

This report is not a guarantee or warranty of any kind and was prepared for the exclusive use of the owner and Pinnacle Consultants and may be provided to others for disclosure purposes only. Any remediation solution should be decided upon between the owner, prospective purchasers, or professional remediation contractor. All interested parties are advised that this report is not intended for their use or benefit nor is to be relied upon to ascertain the condition of the property. Pinnacle Consultants, their employees, agents and subcontractors do not assume any liability for hidden/latent defects or conditions of any kind. None of the information contained in this report shall be construed as medical advice or a call to action for evacuation or remediation. Only a qualified physician should make any decision relative to medical significance.

Pinnacle Consultants greatly appreciates the opportunity to provide you with our mold assessment services for this project. Should you have any questions, please contact our office at your earliest convenience at 304-757-5204.

Sincerely,
Pinnacle Consultants, LLC

Michael Pauley
Field Services Manager

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SPORE TRAP (Air) ANALYSIS RESULTS

HAYES MICROBIAL CONSULTING

#26043022

Analysis Report prepared for

Pinnacle Consultants, LLC

10 Independent Avenue
Nitro, WV 25143

Phone: **(304) 757-5204**

26-597
CK Elementary

Collected: **August 19, 2026**
Received: **August 21, 2026**
Reported: **August 21, 2026**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 15 samples by FedEx in good condition for this project on August 21st, 2026.

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. Information supplied by the customer can affect the validity of results. These results apply only to the samples as received. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

All information provided to Hayes Microbial is confidential information relating to our customers and their clients. We will not disclose, copy, or distribute any information verbally or written, except to those designated by the customer(s). We take confidentiality very seriously. No changes to the distribution list will be made without the express consent of the customer.

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

Greg Pauley
Pinnacle Consultants, LLC
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26-597
CK Elementary

#26043022

Spore Trap
SOP - HMC#101

Sample Number*	2	597 - 02		3	597 - 03		5	597 - 05		7	597 - 07	
Sample Name*	**Hall Room 190**			**Room 182**			**Room 144**			**Room 179**		
Sample Volume*	75 L			75 L			75 L			75 L		
Reporting Limit	13 spores/m³			13 spores/m³			13 spores/m³			13 spores/m³		
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	1	13	50.0%	1	13	33.3%	3	40	60.0%			
Aspergillus|Penicillium							2	27	40.0%			
Basidiospores												
Bipolaris|Drechslera												
Chaetomium												
Cladosporium												
Curvularia				2	27	66.7%						
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes/Periconia										1	13	100.0%
Pithomyces												
Rusts/Smuts												
Stachybotrys												
Stemphylium												
Torula	1	13	50.0%									
Ulocladium												
Total	2	26	100%	3	40	100%	5	67	100%	1	13	100%

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

* indicates data provided by the customer

Collected: **Aug 19, 2026** Received: **Aug 21, 2026** Reported: **Aug 21, 2026**

HAYES MICROBIAL CONSULTING

Project Analyst: Katelyn Harris, Katelyn Harris — Date: **08 - 21 - 2026**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes — Date: **08 - 21 - 2026**

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26-597
CK Elementary

#26043022

Spore Trap
SOP - HMC#101

Sample Number*	8	597 - 08		9	597 - 09		10	597 - 10		11	597 - 11	
Sample Name*	Room 231			Room 238			Room 224			Room 217		
Sample Volume*	75 L			75 L			75 L			75 L		
Reporting Limit	13 spores/m³			13 spores/m³			13 spores/m³			13 spores/m³		
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				3	40	60.0%	1	13	100.0%			
Aspergillus|Penicillium	2	27	66.7%									
Basidiospores												
Bipolaris|Drechslera												
Chaetomium												
Cladosporium	1	13	33.3%									
Curvularia				2	27	40.0%						
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes/Periconia										1	13	100.0%
Pithomyces												
Rusts/Smuts												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	3	40	100%	5	67	100%	1	13	100%	1	13	100%

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

* indicates data provided by the customer

Collected: **Aug 19, 2026** Received: **Aug 21, 2026** Reported: **Aug 21, 2026**

Project Analyst: Katelyn Harris, Date: **08 - 21 - 2026**

Reviewed By: Steve Hayes, BSMT Date: **08 - 21 - 2026**

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26-597
CK Elementary

#26043022

Spore Trap
SOP - HMC#101

Sample Number*	12	597 - 12		13	597 - 13		14	597 - 14		15	597 - 15	
Sample Name*	Room 212			Cafe			Office Room 111			Outside		
Sample Volume*	75 L			75 L			75 L			75 L		
Reporting Limit	13 spores/m³			13 spores/m³			13 spores/m³			13 spores/m³		
Background	1			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										2	27	2.3%
Ascospores				1	13	2.9%	1	13	100.0%	4	53	4.7%
Aspergillus|Penicillium												
Basidiospores												
Bipolaris|Drechslera										1	13	1.2%
Chaetomium	1	13	100.0%									
Cladosporium				34	450	97.1%				77	1000	89.5%
Curvularia										1	13	1.2%
Epicoccum										1	13	1.2%
Fusarium												
Memnoniella												
Myxomycetes/Periconia												
Pithomyces												
Rusts/Smuts												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	1	13	100%	35	463	100%	1	13	100%	86	1119	100%

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

* indicates data provided by the customer

Collected: **Aug 19, 2026** Received: **Aug 21, 2026** Reported: **Aug 21, 2026**

HAYES MICROBIAL CONSULTING

Project Analyst: Katelyn Harris, Katelyn Harris Date: **08 - 21 - 2026**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **08 - 21 - 2026**

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DIRECT EXAM (Tape Lift) ANALYSIS RESULTS

Greg Pauley
Pinnacle Consultants, LLC
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(304) 757-5204

26-597
CK Elementary

#26043022

Direct Analysis
SOP - HMC#102

#1	Bio-Tape (1.00 cm2*)	Organism	Spore Estimate	Mycelial Estimate
	597 - 01T - Tape Hall Vent Rm. 190	Cladosporium	Moderate	Few
		Curvularia	Rare	ND

#4	Bio-Tape (1.00 cm2*)	Organism	Spore Estimate	Mycelial Estimate
	597 - 04T - Room 182 Vent	Pithomyces	Rare	ND
		Curvularia	Rare	ND

#6	Bio-Tape (1.00 cm2*)	Organism	Spore Estimate	Mycelial Estimate
	597 - 06T - Room 169 Bath Ceiling	Cladosporium	Light	ND

* indicates data provided by the customer

Collected: **Aug 19, 2026** Received: **Aug 21, 2026** Reported: **Aug 21, 2026**

Project Analyst: Katelyn Harris, Date: **08 - 21 - 2026**

Reviewed By: Steve Hayes, BSMT Date: **08 - 21 - 2026**

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CHAIN OF CUSTODY FORM

Pg 1

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P 304-757-5204 F 304-440-3465

N
SHIP: FEDEX - PAK PO
DATE: 08-21-2026
4760 7953 9231

MOLD
26043022

HMC #

Job Number: 26-597
Job Name: CK Elementary
Collector: Greg Pauley
Email: ~~tina.burker~~@pinnaclecorp.net
Date Collected: 8-19-2026
Notes: Please use PO# greg.pauley@
Mobile: 304-747-8009

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
597-01T	Tape Hall Vent Rm. 190	S	—	24	
-02	Hall Room 190	S	.75l		
-03	Room 182	S	75l		
-04T	Room 182 vent	S	—		
-05	Room 144	S	75l		
-06T	Room 169 Bath Ceiling	S	—		
-07	Room 179	S	75l		
-08	Room 231	S	75l		
-09	Room 238	S	75l		
-10	Room 224	S	75l		
-11	Room 217	S	75l		
597-12	Room 212	S	75l		

Analysis Type		Description	TAT	Acceptable Sample Types
Spore Trap	S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
	S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID	D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
	D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture	C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
	C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
	C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
	C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite	A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle	P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by: Gregory Pauley | Date: 8-19-2026 | Rcvd By: NL | Date: 8/21 | Time:

Pg 2

HAYES
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Company: Pinnacle Consultants, LLC
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N

SHIP: FEDEX - PAK PO
DATE: 08-21-2026

4760 7953 9231

MOLD
26043022

HMC #

Job Number: 26-597	Job Name: CK Elementary	Collector: Greg Pauley	Email: tina.burker@pinnaclecorp.net
Date Collected: 8-19-2026		Notes: Please use PO#	
Mobile: 304-747-8009			

Sample #	Sample Name	Analysis Type	Volume	TAT	Notes
597-13	Cafe	S	75l	24	
-14	OFFICE Room 111	S	75l	2	
597-15	Outside	S	75l		

Analysis Type		Description	TAT	Acceptable Sample Types
Spore Trap	S	Identification & Enumeration of Fungal Spores	24 Hour	Spore Trap cassettes, Impact slides
	S+	I & E of Fungal Spores + total dander, fiber and pollen count	24 Hour	Spore Trap cassettes, Impact slides
Direct ID	D	ID and Semi-quantative enumeration of spores and mycelium	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
	D+	ID and Enumeration with spores count	24 Hour	Tape, Bio-tape, swab, bulk, agar plate for ID only
Culture	C1	Identification & Enumeration of Mold only	7 Day	Anderson Air Plate, Swab, Bulk
	C2	Identification & Enumeration of Bacteria only	4 Day	Anderson Air Plate, Swab, Bulk
	C3	Identification & Enumeration of Mold and Bacteria	7 Day	Anderson Air Plate, Swab, Bulk
	C5	Coliform Screen for Sewage Bacteria	2 Day	Anderson Air Plate, Swab, Bulk
Dust Mite	A1	Semi-quantative analysis of dust mite allergen	24 Hour	Bulk Dust
Particle	P	Total Particulate Analysis	24 Hour	Spore Trap cassettes, Impact slides, Bio-Tape

Relinquished by:	Date:	Rcvd By:	Date:	Time:
Gregory Pauley	8-19-2026	NL	8/21	

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FUNGAL LEVELS

International Institute for Building Biology & Ecology (IBE) Healthy Home
Standard Version 1 Copyright 2010

Indoor Fungal Reservoir is UNLIKEY if:	
Outdoor Spore Types	Indoor Air < 1.2x Total Outdoor Air
Aspergillus/Penicellium -Like	Indoor Air < Outdoor Air + 300
Stachybotrys	Indoor Air < Outdoor Air
Chaetomium	Indoor Air < Outdoor Air
Mycelium Fragements	Indoor Air < Outdoor Air + 150
Sum Diverse Spores	Indoor Air < Outdoor Air + 400

Indoor Fungal Reservoir is POSSIBLE if:	
Outdoor Spore Types	Indoor Air < 2x Total Outdoor Air
Aspergillus/Penicellium -Like	Indoor Air < Outdoor Air + 800
Stachybotrys	Indoor Air < Outdoor Air +10
Chaetomium	Indoor Air < Outdoor Air +20
Mycelium Fragements	Indoor Air < Outdoor Air + 300
Sum Diverse Spores	Indoor Air < Outdoor Air + 800

Indoor Fungal Reservoir is LIKELY if:	
Outdoor Spore Types	Indoor Air > 2x Total Outdoor Air
Aspergillus/Penicellium -Like	Indoor Air > Outdoor Air + 800
Stachybotrys	Indoor Air > Outdoor Air +10
Chaetomium	Indoor Air > Outdoor Air +20
Mycelium Fragements	Indoor Air > Outdoor Air + 300
Sum Diverse Spores	Indoor Air > Outdoor Air + 800

PINNACLE
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FUNGAL DESCRIPTIONS & CHARACTERISTICS

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The information provided in this report is not intended to provide medical advice. This report is designed to be used for building diagnostic purposes only. Any determination of exposure or potential for exposure should be formed using the results in this report in conjunction with a physical inspection of the property. A medical professional must be consulted for any medical or health related information	Grows Outdoors	Potential Allergen	Water Damage	Potential for Mycotoxins
Alternaria				
These are a common plant pathogen involved in the decomposition of plants. In the indoor environment they are found growing on a variety of substrates including sheetrock and other building materials. They are common allergens causing hay fever or hypersensitivity reactions.		X		
Arthrinium				
These are a plant pathogen found in soil and decomposing plant material. Not typically found growing indoors. One species has been determined to be an allergen.	X			
Ascospores				
These are a very large group of spores that are found everywhere in nature. They are commonly found outdoors and associated with rain and moisture. Some species grow well indoors on damp materials. Ascospores have allergenic potential, however, it is species dependent.	X		X	
Aspergillus/Penicillium-Like				
These are two of the most common genera in the world. They can be found everywhere in nature, both indoors and outdoors. Indoors they can be found on water damaged wallpaper, carpet, and other organic materials. They can also grow well in conditions of high humidity. Many species are allergens and a common cause of respiratory irritation. Some species are human and animal pathogens and can cause infection.		X	X	
Basidiospores				
These are primarily comprised of mushrooms and shelf fungi. They are typically found outdoors. Occasionally they are found indoors growing on any organic matter causing dry rot. Some species can be an allergen to sensitive individuals.	X			
Bipolaris/Dreschlera				
These are a plant pathogen typically found outdoors on grasses, grains, and decaying food. Indoors they can be found on plants and building materials. They are an allergen that can affect the nose, skin, eyes and upper respiratory track.	X	X		
Botrytis				
These are a plant pathogen typically found growing on vegetation particularly in temperate and subtropical climates. Indoors they can be found growing on plants. They are a potential allergen causing hay fever and asthma effects.	X	X		
Chaetomium				
These are typically found indoors on water damaged cellulose containing materials such as paper, sheetrock, and wallpaper. Not well studied but possible allergen with hay fever and asthma effects.		X	X	X
Cladosporium				
One of the most common genera in both the indoor and outdoor environments. Indoors they grow well in damp environments and areas where condensation builds. They are often found on textiles, window sills, in bathrooms, and A/C systems. They are a common allergen when airborne.		X		
Curvularia				
Primarily found outdoors on plants and soil especially in subtropical and tropical environments. Indoors they grow on a variety of building materials. They are a common allergen causing hay fever, asthma, and allergic fungal sinusitis.	X	X		
Epicoccum				
Outdoors they are found in the soil, air, and rotting vegetation. Indoors they grow well on a variety of building materials such as paper and textiles. They are a potential allergen with hay fever, asthma, and skin allergy effects.		X		
Fusarium				
Indoors they are typically found under very wet conditions. Some places they can be found are dust in carpet and mattresses, damp walls, wallpaper, and duct liner. They are a potential allergen causing hay fever and asthma effects.		X	X	X

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Ganoderma				
These are shelf mushrooms that are typically found growing outdoors on wood causing white rot, root rot, and stem rot. They are a possible allergen at high concentrations.	X	X		
Memnoniella				
These are mycotoxin producing spores related to and often found in conjunction with Stachybotrys. These grow well on water damaged cellulose containing building materials such as sheetrock, paper, wallpaper, and textiles.		X		X
Nigrospora				
These are typically found on decaying plant material and soil and are usually not found growing indoors. They are a potential allergen causing hay fever and asthma effects.	X	X		
Oidium/Peronospora				
These are plant pathogens that are common obligate parasites on leaves, stems, flowers, and fruits of higher living plants.	X			
Pithomyces				
These are typically found on dead leaves and stems of plants. Rarely found growing indoors; however, they grow well on paper indoors given the right conditions.	X			
Rust				
These are parasitic plant pathogens that grow on plants, grass, and trees. They are rarely found growing indoors since they require a living host, and therefore typically not found on cellulose containing building materials. They are a potential allergen causing hay fever and asthma effects.	X	X		
Smut/Myxomyces/Periconia				
This is a grouping of several genera organized together in a general category that are mostly associated with living and decaying plants, wood, soil, grass, cereal crops, weeds, and flowering plants. These are rarely found growing indoors. They are a potential allergen causing hay fever and asthma effects.	X	X		
Stachybotrys				
These are typically found indoors growing on water damaged cellulose containing building materials such as sheetrock, paper, and ceiling tiles. They are often referred to as "toxic black mold." They have the ability to produce mycotoxins which may cause a burning sensation in the mouth, throat, and nasal passages. Chronic exposure has been known to cause headaches, diarrhea, memory loss, and brain damage.			X	X
Torula				
These are typically found growing outdoors on leaves, roots, wood, and soil. Indoors they can be found growing on water damaged cellulose, paper, wicker, straw baskets and ceiling tiles. They are a potential allergen causing hay fever and asthma effects.		X		
Ulocladium				
Requires very wet conditions and can commonly be found indoors in damp or wet areas such as bathrooms, kitchens, basements, and around windows. These grow well on cellulose containing materials such as paper and straw and on water damaged building material such as sheetrock. They are a common allergen causing hay fever and asthma effects.		X	X	
Unidentified Spores				
This is a grouping of spores that are unable to be categorized due to a variety of reasons. They may be weathered, disfigured, or otherwise lacking the morphological structures necessary to identify the genus.				
Hyphal Fragments				
These are branched filamentous structures with cell walls. Hyphae are somewhat analogous to stems or roots in plants whereas the spores would be analogous to the seeds. Large quantities present may indicate an active fungal colony or active fungal growth in the structure.				
Pollen				
These are a fine to course powdery substance produced by the anthers of seed-bearing plants, trees, grasses, flowers, and weeds. They are an allergen that causes hay fever effects.	X	X		