

# EHC ASSOCIATES

ENVIRONMENTAL CONSULTANTS & ABATEMENT CONTRACTORS

February 20, 2023

PA HIC # 195

Schuylkill Valley School District  
929 Lake Shore Drive  
Leesport, PA 19533

Attn: Amanda Polland

Re: Spore Trap Air Sampling Services  
929 Lake Shore Dr., Leesport, PA  
EHC Project No.: 210141-008

Dear Ms. Polland:

Please review the attached laboratory analysis report in regard to the spore trap air sampling performed at the above-referenced property on February 17, 2023. Air samples were collected from the following locations:

Sample 01 – Room D-31, back of room on Chrome Books;  
Sample 02 – Outside Baseline, by front entry.

At the current time, there are no established “safe” levels of mold spores in regard to indoor mold spore levels. However, the general consensus among experts in the industry is that interior spore levels should be generally equal to the levels found outside of a home or building.

As indicated on the enclosed report, at the time of sampling, the spore counts are currently within acceptable ranges (indoor compared to outdoor).

Please note that a limited, non-invasive visual inspection was performed. Although air sample results indicate low spore counts, this does not mean that a home or building is free of mold growth. When moisture is not present mold will become dormant and stop producing spores. EHC makes every attempt to detect mold growth using a combination of a thorough visual inspection, air sampling, and years of field experience.

At the time of inspection, no visible mold growth was observed in Room D-31.

In order to prevent microbial growth, we recommend that Relative Humidity (R.H.) be maintained below 50% in all areas of the home. Additionally, all areas should be inspected frequently for pipe leaks or for signs of water intrusion and cleaned and dried promptly upon occurrence.

2502 HORSESHOE ROAD, LANCASTER, PA 17601 ♦ 717-656-3008 ♦ FAX: 717-656-7134  
EMAIL: [OFFICE@EHCASSOCIATES.COM](mailto:OFFICE@EHCASSOCIATES.COM) ♦ [WWW.EHCASSOCIATES.COM](http://WWW.EHCASSOCIATES.COM)

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Environmental Design • Consulting • Surveys • IAQ • Monitoring • Abatement • Duct Cleaning • Demolition • Remediation  
Specializing in the removal of Asbestos, Lead, Mold and other hazards in the built environment since 1983.

Please contact my office with questions or concerns, or if additional information is needed.

Sincerely,

A handwritten signature in black ink, appearing to read "Rick Dom". The signature is fluid and cursive, with the first name "Rick" and last name "Dom" clearly distinguishable.

Rick Dom  
Project Manager

Encl's.: Laboratory Analysis Report  
Invoice No. 210141-008

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Specializing in the removal of Asbestos, Lead, Mold and other hazards in the built environment since 1983.



#23007312

Analysis Report prepared for

# EHC Associates, Inc.

2502 Horseshoe Rd  
Lancaster, PA 17601

Phone: (717) 656-3008

210141-008

Schuylkill Valley School District  
929 Lake Shore Drive  
Leesport, PA 19533

Collected: February 17, 2023  
Received: February 18, 2023  
Reported: February 18, 2023



EPA Laboratory ID: VA01419

We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 2 samples by FedEx in good condition for this project on February 18th, 2023.

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.



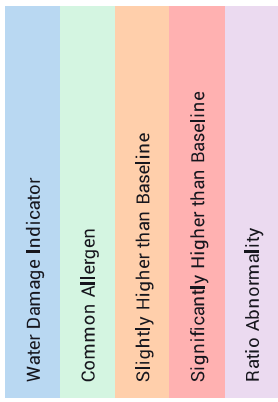
Lab ID: #188863



DPH License: #PH-0198



**Spore Trap Information**

<p><b>Reporting Limit</b></p> <p>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.</p>
<p><b>Blanks</b></p> <p>Results have not been corrected for field or laboratory blanks.</p>
<p><b>Background</b></p> <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><b>NBD:</b> No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p>1 : &lt;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 : &gt;90% of field occluded. Suggested recollection of sample.</p>
<p><b>Fragments</b></p> <p>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.</p>
<p><b>Control Comparisons</b></p> <p>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.</p>
 <p><b>Blue:</b> These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.</p> <p><b>Green:</b> Although all molds are potential allergens, these are the most common allergens that may be found indoors.</p> <p><b>Orange:</b> The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.</p> <p><b>Red:</b> The spore count is significantly higher than the baseline count and probably indicates a source of contamination.</p> <p><b>Violet:</b> 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.</p>
<p><b>Color Coding</b></p> <p>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.</p>



**Organism Descriptions**

**Ascospores**

**Habitat:** A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.

**Effects:** Health affects are poorly studied, but many are likely to be allergenic.

**Aspergillus | Penicillium**

**Habitat:** The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.

**Effects:** This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

**Basidiospores**

**Habitat:** A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.

**Effects:** Common allergens and are also associated with hypersensitivity pneumonitis.

**Cladosporium**

**Habitat:** One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.

**Effects:** A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.



Company: EHC Associates  
 Address: 2502 Horseshoe Road  
 Lancaster, PA 17601

SHIP: FEDEX - PAK SAT  
 DATE: 02-18-2023

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MOLD



8176 1280 6166

23007312

Job Number: 210141-008  
 Collector: Rick Dom  
 Date Collected: 02/17/2023

Job Name: Schuylkill Valley School District  
 929 Lake Shore Drive  
 Leesport, PA 19533

Mobile: (717) 656-3008  
 Email: labresults@ehcassociates.com  
 Note: HS: D31

Analysis Type	Analysis Description	Turnaround	Accepted Media Types
Spore Trap	Identification & Enumeration of Fungal Spores	24 Hour	Air Cassettes, Impact Slides
	Spore Trap Analysis with Dander, Fiber, and Pollen counts	24 Hour	Air Cassettes, Impact Slides
Direct ID	ID & Semi-Quantitative Enumeration of spores and mycelium	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate
	Direct Analysis with Fully Quantitative spore count	24 Hour	Bio-Tape, Tape, Swab, Bulk, Agar Plate
Culture	Identification & Enumeration of Mold only	7 Day	Air Plate, Agar Plate, Swab, Bulk
	Identification & Enumeration of Bacteria only	4 Day	Air Plate, Agar Plate, Swab, Bulk
	Identification & Enumeration of Mold and Bacteria	7 Day	Air Plate, Agar Plate, Swab, Bulk
	Coliform Screen for Sewage Bacteria	2 Day	Agar Plate, Swab, Bulk
	Total Particulate Analysis, ID & Count (Does Not Include Mold)	24 Hour	Air Cassettes, Impact Slides, Bio-Tape

#	Number	Sample	Analysis	Volume	Notes
1	3526 9201	Room D-31	S+	75 liters	on chrome books
2	3526 9195	OUTSIDE BASELINE	S+	75 liters	by front entry
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Released by: *[Signature]* Date: 02/17/2023 Received By: *[Signature]* Date: 2/18