



September 26, 2024

Mr. Robert Mortka  
Director of Facilities  
**Black Horse Pike Regional Board of Education**  
580 Erial Rd.  
Blackwood, NJ 08102

**RE: Indoor Air Quality Inspection Report – August 2024**  
**Highland High School**  
**Epic Project No. 24-2177**

Dear Mr. Mortka:

**Epic Environmental Services, LLC (Epic)** was retained by the Black Horse Pike Board of Education (District) to perform indoor air quality inspections for six randomly selected areas at Highland High School. The inspections consisted of visual observations and the collection of temperature and relative humidity data. Additionally, samples for airborne mold spores were collected in the inspection areas.

The visual inspections focused on signs of moisture, water intrusion, and visible mold growth.

Temperature, relative humidity, and carbon dioxide (CO<sub>2</sub>) data were compared to current New Jersey Indoor Air Quality and industry standards.

Epic Environmental performed the inspections on August 22, 2024.

### **Acceptable Temperature and Relative Humidity Criteria**

<b>Acceptable Indoor Temperature Range:</b>	<b>68° - 79° Fahrenheit</b>
<b>Ideal Relative Humidity Range:</b>	<b>30-60%</b>
<b>Carbon Dioxide Limit:</b>	<b>1,000 parts per million</b>

The following rooms/areas were inspected:

Room B121, Room E207, Room A208, Room F200, Room F126, Room C105

## **Observations, Comments, and Recommendations**

### **Weather: Overcast, 92° Fahrenheit, 44% Relative Humidity**

#### **Room B121**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within the ideal range (31%). Temperature was within the acceptable range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

#### **Room E207**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within the ideal range (43%). Temperature was within the acceptable range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

#### **Room A208**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within the ideal range (45%). Temperature was within the acceptable range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

#### **Room F200**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within the ideal range (43%). Temperature was within the acceptable range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

#### **Room F126**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within the ideal range (45%). Temperature was within the acceptable range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

#### **Room C105**

No visible mold was observed.  
No evidence of recent water intrusion was observed.  
Relative humidity was within the ideal range (39%). Temperature was within the acceptable range.  
Airborne mold spore concentrations were near or below outside (background) concentrations.  
No action required at this time.

## General Conclusions and Recommendations

- **Overall Assessment:**
  1. The indoor air quality was found to meet acceptable standards for temperature and humidity as per New Jersey Indoor Air Quality and industry standards.
  2. No visible mold or evidence of water intrusion was observed.
  3. The relative humidity and temperature were within the acceptable range in both areas.
- **Humidity Control:**
  1. Continue to ensure that the relative humidity is maintained at a maximum of 60% during the summer cooling season to prevent future mold issues.
- **Ongoing Monitoring and Preventive Measures:**
  1. While no immediate action is required, regular inspections are advised to monitor indoor air quality and check for any signs of mold or moisture.
  2. Staff should remain vigilant in identifying and reporting any signs of moisture, water intrusion, or mold growth, to maintain a healthy indoor environment.

Please do not hesitate to contact me at 856-205-1077 should you have any questions.

An invoice for the completed project is enclosed.

Regards,



Tim Eberts  
Senior Project Manager  
Epic Environmental Services, LLC



James Eberts  
President  
Epic Environmental Services, LLC

## Sample Data Summary

### Air Sampling

#### Air Samples

August 22, 2024

Air Sample Location	Airborne Mold Concentrations (spores/m <sup>3</sup> )		
	Total	Individual Mold Concentrations	
Room B-121	1580	Ascospores	200
		Aspergillus/Penicillium	600
		Basidiospores	300
		Cladosporium	400
		Pithomyces	80
Room E-207	160	Ascospores	80
		Cladosporium	80
Room A-208	240	Alternaria	80
		Basidiospores	80
		Cladosporium	80
Room F-200	680	Ascospores	200
		Aspergillus/Penicillium	80
		Basidiospores	200
		Ganoderma	200
Room F-126	800	Basidiospores	200
		Cladosporium	600
Room C-105	3000	Ascospores	80
		Basidiospores	2600
		Cladosporium	80
		Pithomyces	80
		Rust	80
Outside	10340	Unidentifiable Spores	80
		Ascospores	1200
		Aspergillus/Penicillium	500
		Basidiospores	7300
		Cladosporium	1100
		Ganoderma	80
		Myxomycetes	80
		Rust	80

- Total mold counts found in **green** indicate a total airborne mold level NEAR or BELOW the outside (background) level.
- Total mold counts found in **red** indicate a total airborne mold level significantly ABOVE the outside (background) level, and may be an indicator of active mold growth.
- Individual molds listed in **green** indicate an individual airborne mold level NEAR or BELOW outside the (background) level.
- Individual molds listed in **purple** were not found in the background sample, but not considered evidence of a water/moisture issue or active mold growth.
- Individual molds listed in **red** indicate an individual airborne mold level significantly ABOVE the outside (background) level, and may be an indicator of active mold growth in the area.

Air samples were collected in each inspection area. Airborne mold spore concentrations were near or below background (outside) concentrations in all areas.



# EMSL Analytical, Inc.

2700 W. Cypress Creek Rd. Ste. C108 Fort Lauderdale, FL 33309

Tel/Fax: (954) 786-9331 / (954) 941-4145

<http://www.EMSL.com> / [ftlauderdalelab@emsl.com](mailto:ftlauderdalelab@emsl.com)

EMSL Order: 562404007

Customer ID: EPIC62

Customer PO: 24-2177

Project ID:

**Attention:** James Eberts  
Epic Environmental Services, LLC  
80 Fork Bridge Road  
Pittsgrove, NJ 08318

**Phone:** (856) 205-1077  
**Fax:** (856) 205-0413  
**Collected Date:** 08/22/2024  
**Received Date:** 08/22/2024  
**Analyzed Date:** 08/29/2024

**Project:** Highland HS IAQ - Routine

## Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	562404007-0001			562404007-0002			562404007-0003		
Client Sample ID:	H-01			H-02			H-03		
Volume (L):	25			25			25		
Sample Location:	Outside			B - 121			E - 207		
Spore Types	Raw Count†	Count/m³	% of Total	Raw Count†	Count/m³	% of Total	Raw Count†	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	15	1200	11.6	2	200	12.7	1	80	50
Aspergillus/Penicillium++	6	500	4.8	7	600	38	-	-	-
Basidiospores	91	7300	70.6	4	300	19	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	14	1100	10.6	5	400	25.3	1	80	50
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	1	80	0.8	-	-	-	-	-	-
Myxomycetes++	1	80	0.8	-	-	-	-	-	-
Pithomyces++	-	-	-	1	80	5.1	-	-	-
Rust	1	80	0.8	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	129	10340	100	19	1580	100	2	160	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	3	-	-	3	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

No discernable field blank was submitted with this group of samples.

Yessica Martinez Seeman, Florida Microbiology  
Regional Manager

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Samples analyzed by EMSL Analytical, Inc. Fort Lauderdale, FL

Initial report from: 08/29/2024 12:39 PM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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**Project:** Highland HS IAQ - Routine

## Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	562404007-0004			562404007-0005			562404007-0006		
Client Sample ID:	H-04			H-05			H-06		
Volume (L):	25			25			25		
Sample Location:	A - 208			F - 200			F - 126		
Spore Types	Raw Count†	Count/m²	% of Total	Raw Count†	Count/m²	% of Total	Raw Count†	Count/m²	% of Total
Alternaria (Ulocladium)	1	80	33.3	-	-	-	-	-	-
Ascospores	-	-	-	3	200	29.4	-	-	-
Aspergillus/Penicillium++	-	-	-	1	80	11.8	-	-	-
Basidiospores	1	80	33.3	3	200	29.4	2	200	25
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	1	80	33.3	-	-	-	8	600	75
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	2	200	29.4	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	3	240	100	9	680	100	10	800	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	3	-	-	3	-	-	3	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

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No discernable field blank was submitted with this group of samples.

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**Project:** Highland HS IAQ - Routine

## Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	562404007-0007					
Client Sample ID:	H-07					
Volume (L):	25					
Sample Location:	C - 105					
Spore Types	Raw Count†	Count/m³	% of Total			
Alternaria (Ulocladium)	-	-	-	-	-	-
Ascospores	1	80	2.7	-	-	-
Aspergillus/Penicillium++	-	-	-	-	-	-
Basidiospores	32	2600	86.7	-	-	-
Bipolaris++	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-
Cladosporium	1	80	2.7	-	-	-
Curvularia	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-
Pithomyces++	1	80	2.7	-	-	-
Rust	1	80	2.7	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-
Unidentifiable Spores	1	80	2.7	-	-	-
Zygomycetes	-	-	-	-	-	-
<b>Total Fungi</b>	<b>37</b>	<b>3000</b>	<b>100</b>			
Hyphal Fragment	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-
Pollen	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	-	-
Analyt. Sensitivity 300x	-	40*	-	-	-	-
Skin Fragments (1-4)	-	2	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	-	-
Background (1-5)	-	3	-	-	-	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

† Due to method stopping rules, extrapolated raw counts are reported in parenthesis.

No discernable field blank was submitted with this group of samples.

Yessica Martinez Seeman, Florida Microbiology  
Regional Manager

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EMSL ANALYTICAL, INC.

# Environmental Microbiology Chain of Custody

**EMSL Order Number (Lab Use Only):**
562404007

Westmont, NJ  
107 Haddon Avenue  
Westmont, NJ 08108  
PHONE: (856) 858-4800  
FAX: (856) 858-4960

<b>Company:</b> Epic Environmental Services, LLC		<b>EMSL-Bill to:</b> <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
<b>Street:</b> 1930 Brown Road		<b>Third Party Billing</b> requires written authorization from third party	
<b>City/State/Zip:</b> Newfield, NJ 08344			
<b>Report To (Name):</b> James Eberts		<b>Fax:</b> 856-205-0413	
<b>Telephone:</b> 856-205-1077		<b>Email Address:</b> jeberts@epicenviro.com	
<b>Project Name/Number:</b> Highland HS IAQ - Routine			
<b>Please Provide Results:</b> Email		<b>Purchase Order:</b> 24-2177	
<b>State Samples Taken:</b> NJ			
<b>Turnaround Time (TAT) Options* - Please Check</b>			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements			
<b>Non-Culturable Air Samples (Spore Traps)</b>			
<ul style="list-style-type: none"> <li>M001 Air-O-Cell</li> <li>M049 BioSIS</li> <li>M030 Micro-S</li> </ul>	<ul style="list-style-type: none"> <li>M173 Alegro M2</li> <li>M003 Burkard</li> <li>M174 MoldSnap</li> </ul>	<ul style="list-style-type: none"> <li>M004 Allergenco</li> <li>M043 Cyclax</li> <li>M176 Helle Smart</li> </ul>	<ul style="list-style-type: none"> <li>M032 Allergenco-D</li> <li>M002 Cyclex-d</li> <li>M130 Via-Cell</li> </ul>
<b>Other Microbiology Test Codes</b>			
<ul style="list-style-type: none"> <li>M041 Fungal Direct Examination</li> <li>M005 Visible Fungi ID and Count</li> <li>M006 Visible Fungi ID and Count (Speciation)</li> <li>M007 Culturable Fungi</li> <li>M008 Culturable Fungi (Speciation)</li> <li>M009 Gram Stain Culturable Bacteria</li> <li>M010 Bacterial Count and ID - 3 Most Prominent</li> <li>M011 Bacterial Count and ID - 5 Most Prominent</li> <li>M013 Sewage Contamination in Buildings</li> </ul>	<ul style="list-style-type: none"> <li>M014 Endotoxin Analysis</li> <li>M015 Heterotrophic Plate Count</li> <li>M100 Real Time Q-PCR-ERMI 36</li> <li>Panel</li> <li>M016 Total Coliform (Membrane Filtration)</li> <li>M020 Fecal Streptococcus (Membrane Filtration)</li> <li>M210-215 Legionella Detection</li> <li>M026 Recreational Water Screen</li> <li>M027 Mycotoxin Analysis</li> </ul>	<ul style="list-style-type: none"> <li>M029 Enterococci</li> <li>M019 Fecal Coliform</li> <li>M133 MRSA Analysis</li> <li>M028 Cryptococcus neoformans Detection</li> <li>M120 Histoplasma capsulatum Detection</li> <li>M033-39 Allergen Testing</li> <li>M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)</li> <li>Other See Analytical Price Guide</li> </ul>	
<b>Preservation Method (Water):</b>			
<b>Name of Sampler:</b> Timothy Eberts		<b>Signature of Sampler:</b>	
<b>Sample #</b>	<b>Sample Location</b>	<b>Sample Type</b>	<b>Test Code</b>
H-01	Outside	AIR	M030
H-02	B-121		
H-03	E-207		
H-04	A-208		
H-05	F-200		
H-06	F-126		
H-07	C-105		
<b>Client Sample # (s):</b> 140 - 1407	<b>Total # of Samples:</b> 9		
<b>Relinquished (Client):</b>	<b>Date:</b> 8/22/24	<b>Time:</b> 1:55	
<b>Received (Client):</b>	<b>Date:</b> 8/22/24	<b>Time:</b> 1:55	
<b>Comments/Special Instructions:</b>			

RECEIVED  
EMSL  
24 AUG 22 PM 12:56  
JIMMY WILSON, NJ

Due  
8/29





**AIHA Laboratory Accreditation Programs, LLC**

*acknowledges that*

**EMSL Analytical, Inc.**

**200 Route 130 North Cinnaminson, NJ 08077**

**Laboratory ID: LAP-100194**

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

**LABORATORY ACCREDITATION PROGRAMS**

<input checked="" type="checkbox"/>	<b>INDUSTRIAL HYGIENE</b>	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	<b>ENVIRONMENTAL LEAD</b>	Accreditation Expires: January 01, 2025
<input checked="" type="checkbox"/>	<b>ENVIRONMENTAL MICROBIOLOGY</b>	Accreditation Expires: January 01, 2025
<input type="checkbox"/>	<b>FOOD</b>	Accreditation Expires:
<input type="checkbox"/>	<b>UNIQUE SCOPES</b>	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

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