



November 8, 2021

Mr. Thomas Rambone, CEFM
Facilities Manager
Franklin Township Board of Education
3228 Coles Mill Rd.
Franklinville, NJ 08322

RE: Indoor Air Quality Inspection Report – September 2021
Main Road Elementary School
Epic Project No. 21-3270

Dear Mr. Rambone:

Epic Environmental Services, LLC (Epic) was retained by the Franklin Township Board of Education (District) to perform indoor air quality inspections for five randomly selected areas at the Main Road Elementary 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 and relative humidity data were compared to current New Jersey Indoor Air Quality and industry standards.

Epic Environmental performed the inspections on September 15, 2021.

Acceptable Temperature and Relative Humidity Criteria

Acceptable Indoor Temperature Range:	68° - 79° Fahrenheit
Ideal Relative Humidity Range:	30-60%

The following rooms/areas were inspected:

Media Center, Room 36, Room 20, Room 66, Room 6

Observations, Comments, and Recommendations

Weather Conditions: Cloudy, 73° Fahrenheit, 90% Relative Humidity

Media Center

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (70%). Temperature was within the acceptable range.

Airborne mold spore concentrations were near or below outside (background) concentrations.

No action required at this time.

Room 36

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (72%). Temperature was within the acceptable range.

Airborne mold spore concentrations were near or below outside (background) concentrations.

No action required at this time.

Room 20

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (78%). Temperature was within the acceptable range.

Airborne mold spore concentrations were near or below outside (background) concentrations.

No action required at this time.

Room 66

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (77%). Temperature was within the acceptable range.

Airborne mold spore concentrations were near or below outside (background) concentrations.

No action required at this time.

Room 6

Slight visible mold was observed on closet doors.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (76%). Temperature was within the acceptable range.

Airborne mold spore concentrations were near or below outside (background) concentrations.

Clean closet door using an EPA-approved fungicide designed to kill mold.

Air Sample Results

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

See Sample Data Summary

Conclusions and General Recommendations

- Assure steps are taken to maintain a maximum relative humidity concentration of 60% during the summer months. This will reduce the overall probability of triggering mold activity.

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,



James Eberts
President
Epic Environmental Services, LLC

**Sample Data Summary
 Air Sampling**

Air Samples September 15, 2021

Air Sample Location	Airborne Mold Concentrations (spores/m ³)	
	Total	Individual Mold Concentrations
Media Center	5280	Ascospores 80
		Aspergillus/Penicillium 200
		Basidiospores 4800
		Cladosporium 200
Room 36	1760	Ascospores 200
		Aspergillus/Penicillium 80
		Basidiospores 1400
		Curvularia 80
Room 20	5400	Ascospores 200
		Aspergillus/Penicillium 400
		Basidiospores 4600
		Cladosporium 200
Room 66	5360	Ascospores 80
		Aspergillus/Penicillium 80
		Basidiospores 5000
		Cladosporium 200
Room 6	240	Aspergillus/Penicillium 80
		Basidiospores 80
		Myxomycetes++ 80
Outside	16320	Ascospores 2600
		Aspergillus/Penicillium 80
		Basidiospores 9680
		Cladosporium 2300
		Curvularia 80
		Ganoderma 200
		Myxomycetes++ 300
		Acremonium++ 800
		Cercospora++ 80
		Pyricularia 200

- 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.

Airborne mold spore concentrations were near or below background (outside) concentrations.



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
 Tel/Fax: (800) 220-3675 / (856) 786-0262
<http://www.EMSL.com> / cinmicrolab@emsl.com

EMSL Order: 372115631
Customer ID: EPIC62
Customer PO: 21-3270
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: 09/15/2021
Received Date: 09/17/2021
Analyzed Date: 09/24/2021

Project: Franklin Twp BOE - Main Road School - IAQ

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

Lab Sample Number:	372115631-0001			372115631-0002			372115631-0003		
Client Sample ID:	M-01			M-02			M-03		
Volume (L):	25			25			25		
Sample Location:	Media Center			Room 36			Room 20		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	80	1.5	3	200	11.4	2	200	3.7
Aspergillus/Penicillium	2	200	3.8	1	80	4.5	5	400	7.4
Basidiospores	60	4800	90.9	17	1400	79.5	58	4600	85.2
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	3	200	3.8	-	-	-	3	200	3.7
Curvularia	-	-	-	1	80	4.5	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Acremonium++	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Pyricularia	-	-	-	-	-	-	-	-	-
Total Fungi	66	5280	100	22	1760	100	68	5400	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)	-	2	-	-	2	-	-	2	-

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

Vincent Iuzzolino, M.S., Laboratory Director
 or other Approved Signatory

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

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 09/24/2021 04:53 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



EMSL Analytical, Inc.

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Project: Franklin Twp BOE - Main Road School - IAQ

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

Lab Sample Number:	372115631-0004			372115631-0005			372115631-0006		
Client Sample ID:	M-04			M-05			M-06		
Volume (L):	25			25			25		
Sample Location:	Room 66			Room 6			Outside by Front Ent		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	80	1.5	-	-	-	33	2600	15.9
Aspergillus/Penicillium	1	80	1.5	1	80	33.3	1	80	0.5
Basidiospores	63	5000	93.3	1	80	33.3	121	9680	59.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	2	200	3.7	-	-	-	29	2300	14.1
Curvularia	-	-	-	-	-	-	1	80	0.5
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	3	200	1.2
Myxomycetes++	-	-	-	1	80	33.3	4	300	1.8
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Acremonium++	-	-	-	-	-	-	10	800	4.9
Cercospora++	-	-	-	-	-	-	1	80	0.5
Pyricularia	-	-	-	-	-	-	3	200	1.2
Total Fungi	67	5360	100	3	240	100	206	16320	100
Hyphal Fragment	-	-	-	-	-	-	1	80	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1	80	-	1	80	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	1	-

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

Vincent Iuzzolino, M.S., Laboratory Director
 or other Approved Signatory

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Initial report from: 09/24/2021 04:53 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



Environmental Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

372115631

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

EMSL ANALYTICAL, INC.
CORPORATE HEADQUARTERS

2021 SEP 17 AM 11:28
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Company: Epic Environmental Services, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party.</small>			
Street: 1930 Brown Road					
City/State/Zip: Newfield, NJ 08344					
Report To (Name): James Eberts		Fax: 856-205-0413			
Telephone: 856-205-1077		Email Address: jeberts@epicenviro.com			
Project Name/Number: Franklin Twp BOE - Main Road School - IAO					
Please Provide Results: Email <input type="checkbox"/> Purchase Order: 21-3270 <input type="checkbox"/> State Samples Taken: NJ <input type="checkbox"/>					
Turnaround Time (TAT) Options* - Please Check					
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 8 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					
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements</small>					
Non Culturable Air Samples (Spore Traps)					
<ul style="list-style-type: none"> • M001 Air-O-Cel • M049 BioSIS • M030 Micro 5 	<ul style="list-style-type: none"> • M173 Ategro M2 • M003 Burkard • M174 MokiSnap 	<ul style="list-style-type: none"> • M004 Allergenco • M043 Cyelex • M176 Relie Smart 	<ul style="list-style-type: none"> • M032 Allergenco-D • M002 Cyelex-d • M130 Via-Cell 		
Other Microbiology Test Codes					
<ul style="list-style-type: none"> • M041 Fungal Direct Examination • M005 Viable Fungi ID and Count • M006 Viable Fungi ID and Count (Speciation) • M007 Culturable Fungi • M008 Culturable Fungi (Speciation) • M009 Gram Stain Culturable Bacteria • M010 Bacterial Count and ID - 3 Most Prominent • M011 Bacterial Count and ID - 5 Most Prominent • M013 Sewage Contamination in Buildings 	<ul style="list-style-type: none"> • M014 Endotoxin Analysis • M015 Heterotrophic Plate Count • M100 Real Time Q-PCR-ERMI 36 Panel • M018 Total Coliform (Membrane Filtration) • M020 Fecal Streptococci (Membrane Filtration) • M210-215 Legionella Detection • M026 Recreational Water Screen • M027 Mycotoxin Analysis 	<ul style="list-style-type: none"> • M029 Enterococci • M019 Fecal Coliform • M133 MRSA Analysis • M028 Cryptococcus neoformans Detection • M120 Histoplasma capsulatum Detection • M033-39 Allergen Testing (Cat, Dog, Cockroach, Dustmites) • Other See Analytical Price Guide 			
Preservation Method (Water):					
Name of Sampler: James Eberts		Signature of Sampler:			
Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
M-01	media center	Air	M030	25L	9/15/21 0740
M-02	Room 36			25L	0748
M-03	Room 20			25L	0755
M-04	Room 66			25L	0703
M-05	Room 6			25L	0812
M-06	Outside by Front Exit End			25L	0825
Client Sample # (s): M-01 -> M-06		Total # of Samples: 6			
Relinquished (Client):		Date: 9/17/21	Time:		
Received (Client):		Date: 9/17/21	Time: 1/20		
Comments/Special Instructions:					



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"/> | INDUSTRIAL HYGIENE | Accreditation Expires: November 01, 2022 |
| <input checked="" type="checkbox"/> | ENVIRONMENTAL LEAD | Accreditation Expires: November 01, 2022 |
| <input checked="" type="checkbox"/> | ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: November 01, 2022 |
| <input type="checkbox"/> | FOOD | Accreditation Expires: |
| <input type="checkbox"/> | UNIQUE SCOPES | 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) for the most current Scope.

Cheryl O. Morton

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision19: 09/01/2020

Date Issued: 10/31/2020