August 31, 2022

Ms. Margaret Durham
Facilities Manager
Elk Township School District
Fries Mill Road
Franklinville, NJ 08322

RE: Indoor Air Quality Inspection Report – August 2022
Aura Elementary School
Epic Project No. 22-3182A

Dear Ms. Durham:

Epic Environmental Services, LLC (Epic) was retained by the Elk Township School District to perform indoor air quality inspections for six randomly selected areas at the Aura 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 visual inspections and collected air samples on August 19, 2022.

Acceptable Temperature and Relative Humidity

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

The following rooms/areas were inspected:

Room 112, Room 114, Room 104, Library, Room 201, Room 205

Observations, Comments, and Recommendations

Weather: Sunny, 75° Fahrenheit, 82% Relative Humidity

Room 112
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (34.9%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 114
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (43.4%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 104
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (43.4%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Library
Minor visible mold was observed on shelving units.
No evidence of recent water intrusion was observed.
Relative humidity was slightly elevated (61.0%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
It is recommended that the shelving units be cleaned with an EPA approved fungicide formulated to kill mold and mold spores.

Room 201
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (41.1%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 205
No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (47.0%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Air Sample Results

Air samples were collected in six random locations throughout the school. Airborne mold spore concentrations were near or below background (outside) concentrations .

See Sample Data Summary

Conclusions

- Assure steps are taken to reduce relative humidity to a maximum of 60% during the summer cooling season. Although most mold activity is not likely to start until extended periods of 75% or higher relative humidity are experienced, it is recommended to have the goal of 60%.

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 Jr. Eberts

James Eberts
President
Epic Environmental Services, LLC

Sample Data Summary

Air Sampling

Air Samples August 19, 2022

Air Sample Location	Airborne Mold Concentrations (spores/m³)		
	Total	Individual Mold Concentrations	
Room 112	1100	Alternaria	200
		Aspergillus/Penicillium	500
		Basidiospores	80
		Cladosporium	200
		Epicoccum	80
		Rust	40
Room 114	900	Aspergillus/Penicillium	200
		Basidiospores	500
		Cladosporium	200
Room 104	660	Aspergillus/Penicillium	80
		Basidiospores	500
		Cladosporium	80
Library	280	Aspergillus/Penicillium	200
		Basidiospores	80
Room 201	2180	Aspergillus/Penicillium	80
		Basidiospores	1500
		Cladosporium	600
Room 205	2400	Ascospores	80
		Aspergillus/Penicillium	700
		Basidiospores	1400
		Cladosporium	80
		Myxomycetes	40
Outside	11000	Ascospores	600
		Aspergillus/Penicillium	400
		Basidiospores	3800
		Cladosporium	5600
		Epicoccum	200
		Ganoderma	200
		Pithomyces	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 / cinnmicrolab@emsl.com

EMSL Order: 372213414
Customer ID: EPIC82
Customer PO: 17-2068
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: 08/19/2022
Received Date: 08/22/2022
Analyzed Date: 08/25/2022

Project: Aura School IAQ

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

Lab Sample Number:	372213414-0001			372213414-0002			372213414-0003		
Client Sample ID:	A-OUT			A-122			A-114		
Volume (L):	25			25			25		
Sample Location:	Outside			Room 122			Room 114		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Undaelium)	-	-	-	2	200	18.2	-	-	-
Ascospores	8	600	5.5	-	-	-	-	-	-
Aspergillus/Penicillium	5	400	3.6	6	500	45.5	2	200	22.2
Basidiospores	47	3600	34.5	1	80	7.3	6	500	55.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	70	5600	50.9	3	200	18.2	2	200	22.2
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	2	200	1.8	1	80	7.3	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	2	200	1.8	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	2	200	1.8	-	-	-	-	-	-
Rust	-	-	-	1*	40*	3.6	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**136**	**11000**	**100**	**14**	**1100**	**100**	**10**	**900**	**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)	-	3	-	-	3	-	-	2	-

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

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

Vincent Iuzzolino

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

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

Initial report from: 08/26/2022 09:37 AM

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

EMSL Analytical, Inc.

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

EMSL Order: 372213414
Customer ID: EPIC62
Customer PO: 17-2068
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: 08/19/2022
Received Date: 08/22/2022
Analyzed Date: 08/25/2022

Project: Aura School IAQ

Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-391, ASTM D7391)

Lab Sample Number:	372213414-0004			372213414-0005			372213414-0006		
Client Sample ID:	A-104			A-LIB			A-201		
Volume (L):	25			25			25		
Sample Location:	Room 104			Library			Room 201		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	1	80	12.1	2	200	71.4	1	80	3.7
Basidiospores	6	500	75.8	1	80	28.6	19	1500	68.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	1	80	12.1	-	-	-	6	600	27.5
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**8**	**660**	**100**	**3**	**280**	**100**	**28**	**2180**	**100**
Hyphal Fragment	-	-	-	1	80	-	1*	40*	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	3	-	-	3	-	-	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.

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

Vincent Iuzzolino

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

Initial report from: 08/26/2022 09:37 AM

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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: 08/19/2022
Received Date: 08/22/2022
Analyzed Date: 08/25/2022

Project: Aura School IAQ

Test Report: Micro-6(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-291, ASTM D7391)

Lab Sample Number:	372213414-0007				
Client Sample ID:	A-286				
Volume (L):	28				
Sample Location:	Room 206				
Spore Types	**Raw Count**	**Count/m³**	**% of Total**		
Alternaria (Ulocladium)	-	-	-		
Ascospores	1	80	3.5		
Aspergillus/Penicillium	9	700	30.4		
Basidiospores	18	1400	60.9		
Bipolaris++	-	-	-		
Chaetomium++	-	-	-		
Cladosporium	1	80	3.5		
Curvularia	-	-	-		
Epicoccum	-	-	-		
Fusarium++	-	-	-		
Ganoderma	-	-	-		
Myxomycetes++	1*	40*	1.7		
Pithomyces++	-	-	-		
Rust	-	-	-		
Scopulariopsis/Microascus	-	-	-		
Stachybotrys/Memnoniella	-	-	-		
Unidentifiable Spores	-	-	-		
Zygomycetes	-	-	-		
Total Fungi	**30**	**2280**	**100**		
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)	-	2	-		

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

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

Vincent Iuzzolino

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

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

Initial report from: 08/26/2022 09:37 AM

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)*: 372213414

RECEIVED
EMSL
CINNAMINSON, NJ
22 AUG 22 PM 2:54

Westmont EMSL
107 Haddon Avenue
Westmont, NJ 08108
PHONE: (856) 858-4800
FAX: (856) 858-4571

Company: Epic Environmental Services, LLC	EMSL-Bill to: ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
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@epic-env.com
Project Name/Number: ~~Wenonah BOE IAQ Inspection~~ Aura School IAQ	
Please Provide Results: Email | Purchase Order: 17-2068	State Samples Taken: NJ

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☑ 1 Week ☐ 2 Week

Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

Non Culturable Air Samples (Spore Traps)

- M001 Air-O-Cell
- M040 BioSIS
- M030 Micro 5
- M173 Allegro M2
- M003 Burkard
- M174 MoldSnap
- M004 Allergenco
- M043 Cyclex
- M176 Roll'o Smart
- M032 Allergenco-D
- M002 Cyclex-d
- M130 Via-Cell
- M172 Versa Trap

Other Microbiology Test Codes

- 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
- M014 Endotoxin Analysis
- M015 Heterotrophic Plate Count
- M180 Real Time Q-PCR-ERMI 36 Panel
- M018 Total Coliform (Membrane Filtration)
- M020 Fecal *Streptococcus* (Membrane Filtration)
- M210-215 *Legionella* Detection
- M026 Recreational Water Screen
- M027 Mycotoxin Analysis
- M029 *Enterococci*
- M019 Fecal Coliform
- M133 MRSA Analysis
- M028 *Cryptococcus neoformans* Detection
- M120 *Histoplasma capsulatum* Detection
- M033-39 Allergen Testing
- M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
- Other See Analytical Price Guide

Preservation Method (Water):

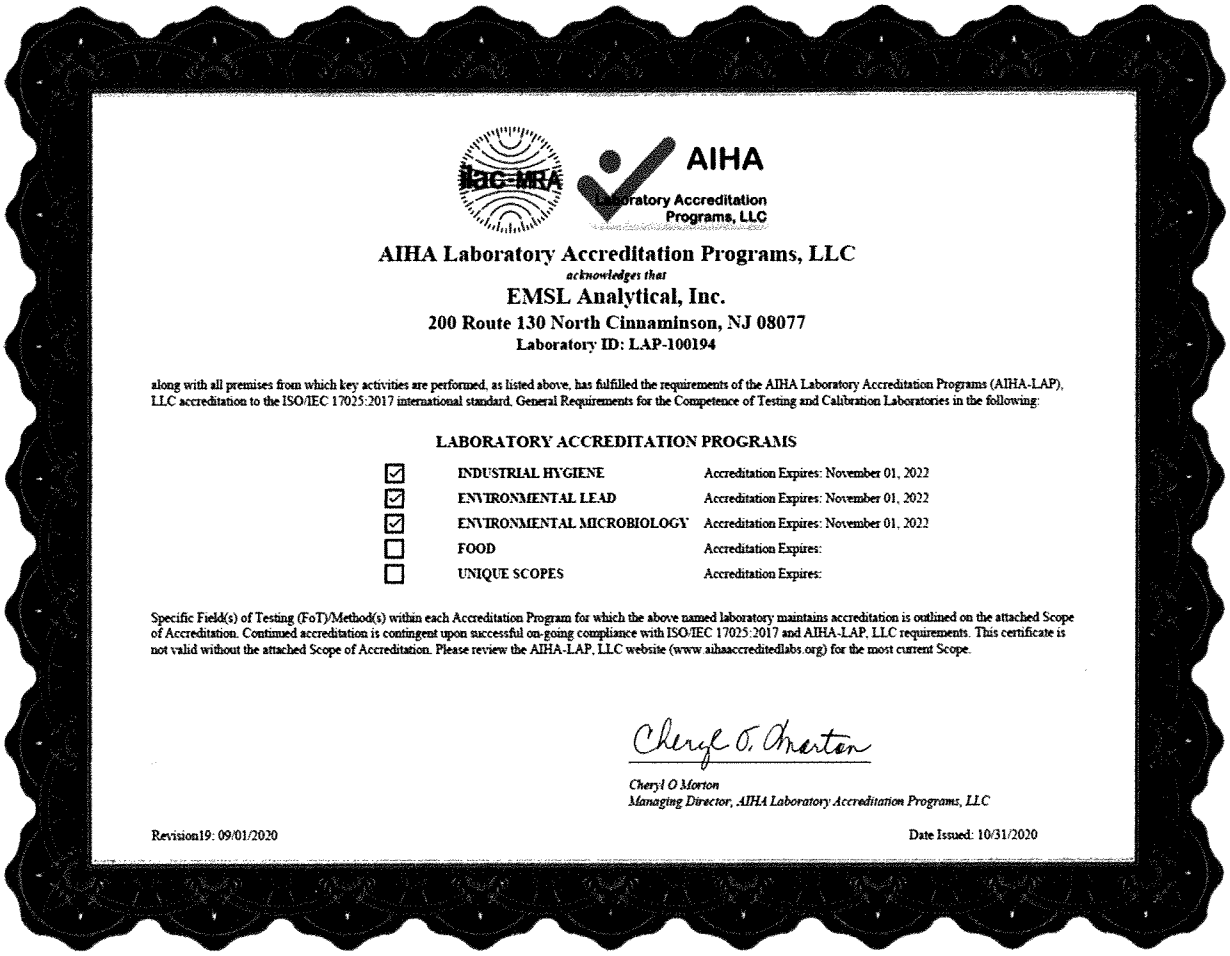
Name of Sampler: ~~James Eberts~~ Casey Eberts   Signature of Sampler: Casey Eberts

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
A-OUT	Outside	Air	M030	25L	8/19/22 1328
A-122	Room 122	Air	↓	↓	8/19/22 1337
A-114	Room 114	Air	↓	↓	8/19/22 1352
A-104	Room 104	Air	↓	↓	8/19/22 1401
A-LIB	Library	Air	↓	↓	8/19/22 1416
A-201	Room 201	Air	↓	↓	8/19/22 1425
A-205	Room 205	Air	↓	↓	8/19/22 1432

Client Sample # (s): A-OUT - A-205	Total # of Samples: 7	
Relinquished (Client): Casey Eberts	Date: 8/22/22	Time:
Received (Client): [illegible signature]	Date: 8-22-22	Time: 2:55 pm

Comments/Special Instructions:

7 [illegible]



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

☑	INDUSTRIAL HYGIENE	Accreditation Expires: November 01, 2022
☑	ENVIRONMENTAL LEAD	Accreditation Expires: November 01, 2022
☑	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires: November 01, 2022
☐	FOOD	Accreditation Expires:
☐	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