

October 26, 2021

Ms. Margaret Durham Facilities Manager **Delsea Regional High School District** Fries Mill Road Franklinville, NJ 08322

RE: Indoor Air Quality Inspection Report – September 2021 Delsea Middle School Epic Project No. 21-3309

Dear Ms. Durham:

Epic Environmental Services, LLC (Epic) was retained by the Delsea Regional High School District (District) to perform indoor air quality inspections for six randomly selected areas at the Delsea Middle School. The inspections consisted of visual observations and the collection of temperature/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 September 24, 2021. Air samples were collected October 4, 2021.

Acceptable Temperature, Relative Humidity

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

The following rooms/areas were inspected:

Room A-12, Room A-6, Room B-6, Room C-8, Room C-9, Room D-6

SAFETY 1930 Brown Road

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Observations, Comments, and Recommendations

Room A-12

No visible mold was observed. No evidence of recent water intrusion was observed. Relative humidity was within 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 A-6

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within 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 B-6

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within 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 C-8

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within 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 C-9

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within 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 D-6

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within 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.

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Air Sample Results

Air samples were collected in 6 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 J. Ebents

James Eberts President Epic Environmental Services, LLC

Fax: 856.205.0413

Newfield, New Jersey 08344

Delsea Regional High School District Indoor Air Quality Inspection Report – September 2021 Delsea Middle School Epic Project No. 21-3309 October 26, 2021

Sample Data Summary

Air Sampling

Air Samples	October 4, 2021					
Air Sample Location	Airborne Mold Concentrations (spores/m ³)					
	Total	Individual Mold Conce	entrations			
		Basidiospores	200			
Room A-12	400	Myxomycetes	80			
		Pithomyces	80			
		Rust	40			
		Aspergillus/Penicillium	300			
Room A-6	1000	Basidiospores	200			
		Cladosporium	80			
		Curvularia	40			
		Myxomycetes	300			
		Rust	80			
		Aspergillus/Penicillium	80			
Room B-6	820	Basidiospores	500			
		Cladosporium	80			
		Curvularia	80			
		Myxomycetes	80			
Room C-8	80	Basidiospores	80			
Room C-9	280	Basidiospores	200			
		Rust	80			
		Aspergillus/Penicillium	80			
Room D-6	3560	Basidiospores	1000			
		Cladosporium	2200			
		Myxomycetes	200			
		Rust	80			
		Alternaria	200			
Outside	12560	Ascospores	200			
		Aspergillus/Penicillium	600			
		Basidiospores	700			
		Cladosporium	3400			
		Curvularia	80			
		Fusarium	200			
		Ganoderma	200			
		Myxomycetes	200			
		Rust	200			
		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.

HEALTH	SAFETY	ENVIRONMENT
Epic Environmental Services, LLC	1930 Brown Road	Newfield, New Jersey 08344
Tele: 856.205.1077	www.epicenviro.com	Fax: 856.205.0413



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

Epic Environmental Services, LLC

EMSL Order:	372116980
Customer ID:	EPIC62
Customer PO:	
Project ID:	

Phone:	(856) 205-1077
Fax:	(856) 205-0413
Collected Date:	10/04/2021
Received Date:	10/05/2021
Analyzed Date:	10/12/2021

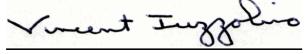
Project: Delsea Middle School IAQ

80 Fork Bridge Road Pittsgrove, NJ 08318

Attention: James Eberts

Test Report: Mi	cro-5(™) Analys	sis of Fungal Sp	ores & Particu	lates by Optical	Microscopy (M	ethods MICRO	-SOP-201, ASTN	1 D7391)	
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	M-01 25		372116980-0002 M-02 25 A-6			372116980-0003 M-03 25 B-6			
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	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	4	300	30	1	80	9.8
Basidiospores	3	200	50	3	200	20	6	500	61
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	1	80	8	1	80	9.8
Curvularia	-	-	-	1*	40*	4	1	80	9.8
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	80	20	4	300	30	1	80	9.8
Pithomyces++	1	80	20	-	-	-	-	-	-
Rust	1*	40*	10	1	80	8	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Pyricularia	-	-	-	-	-	-	-	-	-
Total Fungi	6	400	100	14	1000	100	10	820	100
Hyphal Fragment	-	-	-	1*	40*	-	-	-	-
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	-	-	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, M.S., Laboratory Director or other Approved Signatory

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 choin 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: 10/12/2021 04:08 PM

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



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

EMSL Order:	372116980
Customer ID:	EPIC62
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Attention:	James Eberts	
	Epic Environmental Services, LLC	
	80 Fork Bridge Road	

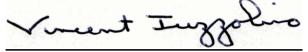
Pittsgrove, NJ 08318

Phone:	(856) 205-1077
Fax:	(856) 205-0413
Collected Date:	10/04/2021
Received Date:	10/05/2021
Analyzed Date:	10/12/2021

Project: Delsea Middle School IAQ

Test Report: Micro-5(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)									
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	3	72116980-0004 M-04 25 C-8		3	72116980-0005 M-05 25 C-9		3	72116980-0006 M-06 25 D-6	
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	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	80	2.2
Basidiospores	1	80	100	2	200	71.4	13	1000	28.1
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	27	2200	61.8
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	3	200	5.6
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	1	80	28.6	1	80	2.2
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Pyricularia	-	-	-	-	-	-	-	-	-
Total Fungi	1	80	100	3	280	100	45	3560	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.



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Analyzed Date:	10/12/2021

Project: Delsea Middle School IAQ

80 Fork Bridge Road Pittsgrove, NJ 08318

Attention: James Eberts

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	3	72116980-0007 M-07 25 Outside							
Spore Types	Raw Count	Count/m ³	% of Total	-	-	-	-	-	
Alternaria (Ulocladium)	2	200	1.6	- 1	-	-	-	-	1
Ascospores	3	200	1.6			-			
Aspergillus/Penicillium	8	600	4.8			-			
Basidiospores	88	7000	55.7			-			
Bipolaris++	-	-	-			-			
Chaetomium++	-	-	-			-			
Cladosporium	43	3400	27.1						
Curvularia	2*	80*	0.6			-			
Epicoccum	-	-	-			-			
Fusarium++	2	200	1.6			-			
Ganoderma	3	200	1.6			-			
Myxomycetes++	3	200	1.6			-			
Pithomyces++	-	-	-			-			
Rust	3	200	1.6			-			
Scopulariopsis/Microascus	-	-	-			-			
Stachybotrys/Memnoniella	-	-	-			-			
Unidentifiable Spores	-	-	-			-			
Zygomycetes	-	-	-			-			
Cercospora++	1	80	0.6			-			
Pyricularia	3	200	1.6			-			
Total Fungi	161	12560	100						
Hyphal Fragment	-	-	-			-			
Insect Fragment	-	-	-			-			
Pollen	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	80	-			-			
Analyt. Sensitivity 300x	-	40*	-			-			
Skin Fragments (1-4)	-	1	-						
Fibrous Particulate (1-4)	-	1	-			-			
Background (1-5)	-	2	-						

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

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Company: Epic Env	ironmental Services, LL		`		EMSL-	Bill to								
Street: 1930 Brown	Road			Third F	arty Billing re					d party				
City/State/Zip: New	field, NJ 08344									1000				
Report To (Name):	James Eberts			Fax: 85	6-205-0413					14 AVE]			
Telephone: 856-205				Email A	ddress jeb	erts@	epicenvir	o.con	า		,			
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Please Provide Res		se Order:					Takefish	<u>L</u>	/					
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Comments/Special	Instructions:													

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	AI		AIHA Accreditation Programs, LLC					
		acknowledges that EMSL Analytica 200 Route 130 North Cinnan Laboratory ID: LAP-	l, Inc. .inson, NJ 08077					
VE	along with all premises from which key activitie LLC accreditation to the ISO/IEC 17025:2017 in	es are performed, as listed above, has fulfilled the re nternational standard, General Requirements for th	quirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), Competence of Testing and Calibration Laboratories in the following:					
	LABORATORY ACCREDITATION PROGRAMS							
		INDUSTRIAL HYGIENE	Accreditation Expires: November 01, 2022					
1/23			Accreditation Expires: November 01, 2022					
	\checkmark		GY Accreditation Expires: November 01, 2022					
			Accreditation Expires:					
AS		UNIQUE SCOPES	Accreditation Expires:					
	of Accreditation. Continued accreditation is cont	tingent upon successful on-going compliance with	ve named laboratory maintains accreditation is outlined on the attached Scope (SO/IEC 17025:2017 and AIHA-LAP, LLC requirements. This certificate is (www.aihaaccreditedlabs.org) for the most current Scope.					
			eryl J. Marton					
			O Morton ng Director, AIHA Laboratory Accreditation Programs, LLC					
18	Revision19: 09/01/2020		Date Issued: 10/31/2020					