



September 11, 2020

Mr. Samuel Teague
Facilities Manager
Delsea Regional High School District
Fries Mill Road
Franklinville, NJ 08322

RE: Indoor Air Quality Inspection Report – August 2020
Delsea High School
Epic Project No. 20-3214

Dear Mr. Teague:

Epic Environmental Services, LLC (Epic) was retained by the Delsea Regional High School District (District) to perform indoor air quality inspections for eight randomly selected areas at the Delsea 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 and relative humidity data were compared to current New Jersey Indoor Air Quality and industry standards.

Epic Environmental performed the inspection August 26, 2019.

Acceptable Temperature, Relative Humidity

Acceptable Indoor Temperature Range:

68° - 79° Fahrenheit

Ideal Relative Humidity Range:

30-60%

The following rooms/areas were inspected:

Room N101B, Room E110, Room E116, Room S112, Room S220, Room N202, Library, Room S109

HEALTH

Epic Environmental Services, LLC
Tele: 856.205.1077

SAFETY

1930 Brown Road
www.epic-env.com

ENVIRONMENT

Newfield, New Jersey 08344
Fax: 856.205.0413

Observations, Comments, and Recommendations

Room N101B

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within ideal range (57%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room E110

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within ideal range (54%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room E116

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within acceptable range (59%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room S112

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was elevated (64%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room S220

Major visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was significantly elevated (76%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
Thorough cleaning is recommended on all horizontal surfaces/tables/furniture.

Room N202

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was significantly elevated (70%). Temperature was elevated (82°F).
Airborne mold spore concentrations were near or below outside (background) concentrations.
Address HVAC system to assure room temperature is between 68°F - 78°F.

Library

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within acceptable range (44%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room S109

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within the ideal range (60%). 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 8 random locations throughout the school. Airborne mold spore concentrations were near or below background (outside) concentrations.

See Sample Data Summary

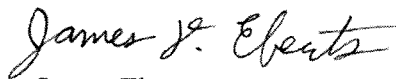
Conclusions

- 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 Eberts

President

Epic Environmental Services, LLC

Sample Data Summary

Air Sampling

Air Samples August 26, 2020

Air Sample Location	Airborne Mold Concentrations (spores/m ³)	
	Total	Individual Mold Concentrations
Room N1010B	5740	Ascospores 80
		Aspergillus/Penicillium 80
		Basidiospores 5500
		Cladosporium 80
Room E110	1040	Alternaria 40
		Basidiospores 800
		Cladosporium 200
Room E116	2180	Aspergillus/Penicillium 80
		Basidiospores 2100
Room S112	1480	Aspergillus/Penicillium 1200
		Basidiospores 200
		Cladosporium 80
Room S220	7580	Ascospores 200
		Aspergillus/Penicillium 200
		Basidiospores 7100
		Cladosporium 80
Room N202	4580	Ascospores 80
		Basidiospores 4500
Library	80	Basidiospores 80
Room S109	4400	Ascospores 200
		Aspergillus/Penicillium 200
		Basidiospores 3800
		Cladosporium 200
Outside by Greenhouse	24320	Ascospores 900
		Aspergillus/Penicillium 600
		Basidiospores 20600
		Cladosporium 1400
		Ganoderma 300
		Myxomycetes 300
		Cerocspora 80
Polythrincium 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.

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

HEALTH

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SAFETY

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 www.epicenviro.com

ENVIRONMENT

Newfield, New Jersey 08344
 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

EMSL Order: 372013793
Customer ID: EPIC62
Customer PO:
Project ID:

Attention: James Eberts
Epic Environmental Services, LLC
1930 Brown Road
Newfield, NJ 08344

Phone: (856) 205-1077
Fax: (856) 205-0413
Collected Date: 08/27/2020
Received Date: 08/27/2020
Analyzed Date: 08/28/2020

Project: Delsea High School IAQ

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

Lab Sample Number:	372013793-0001			372013793-0002			372013793-0003		
Client Sample ID:	H-01			H-02			H-03		
Volume (L):	25			25			25		
Sample Location:	N101B			E110			E116		
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)	-	-	-	1*	40*	3.8	-	-	-
Ascospores	1	80	1.4	-	-	-	-	-	-
Aspergillus/Penicillium	1	80	1.4	-	-	-	1	80	3.7
Basidiospores	69	5500	95.8	10	800	76.9	26	2100	96.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	80	1.4	2	200	19.2	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercoaspora++	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Total Fungi	72	5740	100	13	1040	100	27	2180	100
Hypheal 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	-	-	1	-	-	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

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 Lab 100194

Initial report from: 08/28/2020 01:53 PM

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
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EMSL Order: 372013793
Customer ID: EPIC62
Customer PO:
Project ID:

Attention: James Eberts
Epic Environmental Services, LLC
1930 Brown Road
Newfield, NJ 08344
Phone: (856) 205-1077
Fax: (856) 205-0413
Collected Date: 08/27/2020
Received Date: 08/27/2020
Analyzed Date: 08/28/2020
Project: Delsea High School IAQ

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

Lab Sample Number:	372013793-0004			372013793-0005			372013793-0006		
Client Sample ID:	H-04			H-05			H-06		
Volume (L):	25			25			25		
Sample Location:	S112			S220			N202		
Spore Types	Raw Count	Count/m ²	% of Total	Raw Count	Count/m ²	% of Total	Raw Count	Count/m ²	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	3	200	2.6	1	80	1.7
Aspergillus/Penicillium	15	1200	81.1	2	200	2.6	-	-	-
Basidiospores	3	200	13.5	89	7100	93.7	56	4500	98.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	80	5.4	1	80	1.1	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Total Fungi	19	1480	100	95	7580	100	57	4580	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 800x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	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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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from: 08/28/2020 01:53 PM

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 Collected Date: 08/27/2020
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 Analyzed Date: 08/28/2020

Project: Delsea High School IAQ

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

Lab Sample Number:	372013793-0007			372013793-0008			372013793-0009		
Client Sample ID:	H-07			H-08			H-09		
Volume (L):	25			25			25		
Sample Location:	Library			S109			Outside		
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	-	-	-	2	200	4.5	12	960	3.9
Aspergillus/Penicillium	-	-	-	4*	200*	4.5	7	600	2.5
Basidiospores	1	80	100	47	3800	86.4	257	20600	84.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	2	200	4.5	18	1400	5.8
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	4	300	1.2
Myxomycetes++	-	-	-	-	-	-	4	300	1.2
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	1	80	0.3
Polythrincium	-	-	-	-	-	-	1	80	0.3
Total Fungi	1	80	100	55	4400	100	304	24320	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	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

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

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

Initial report from: 08/28/2020 01:53 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):

372013793

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

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: <u>Delsea High School IAQ</u>			
Please Provide Results: Email		Purchase Order:	State Samples Taken: NJ
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input 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-Cell • M048 BioSIS • M030 Micro 5 	<ul style="list-style-type: none"> • M173 Aiegro M2 • M003 Burkard • M174 MoldSnap 	<ul style="list-style-type: none"> • M004 Allergenco • M043 Cyclax • M176 Rette Smart 	<ul style="list-style-type: none"> • M032 Allergenco-D • M002 Cyclax-d • M130 Via-Cell • M172 Versa Trap
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 Streptococcus (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) • M044 Group Allergen • Other See Analytical Price Guide 	20 AUG 27 PM ONYX/AMERICAN NJ RECEIVED EMSL
Preservation Method (Water):			9
Name of Sampler: <u>Tim Eberts</u>		Signature of Sampler:	
Sample #	Sample Location	Sample Type	Test Code
H-01	M101B	M030 AIR	M030
H-02	E110	↓	↓
H-03	E116	↓	↓
H-04	S112	↓	↓
H-05	S220	↓	↓
H-06	N202	↓	↓
H-07	Library	↓	↓
H-08	S104	↓	↓
H-09	Outside	↓	↓
Client Sample # (s): <u>H-01 thru H-09</u>		Total # of Samples: <u>9</u>	
Relinquished (Client):		Date: <u>8-27-20</u>	Time: <u>1300</u>
Received (Client):		Date: <u>8/27/2000</u>	Time: <u>115A</u>
Comments/Special Instructions: <div style="text-align: right; font-size: 2em; border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">9R10</div>			



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Laboratory ID: 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 17025:2005 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, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: November 01, 2020 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: November 01, 2020 |
| <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 17025:2005 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

Elizabeth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

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

Revision 17 - 09/11/2018

Date Issued: 11/30/2018