



October 23, 2020

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

RE: Indoor Air Quality Inspection Report – October 2020
Reutter Elementary School
Epic Project No. 20-3198

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 Reutter 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 October 14, 2020.

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:

Room 3, Room 43, Room 44, Room 17, Room 25

Observations, Comments, and Recommendations

Weather Conditions: Clear, 68° Fahrenheit, 40% Relative Humidity

Room 3

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (42%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 43

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (42%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 44

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (42%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 17

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (42%). Temperature was within the acceptable range.
Airborne mold spore concentrations were near or below outside (background) concentrations.
No action required at this time.

Room 25

No visible mold was observed.
No evidence of recent water intrusion was observed.
Relative humidity was within the ideal range (42%). 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 each inspection area. Airborne mold spore concentrations were near or below background concentrations in all locations.

See Sample Data Summary

Conclusions and General Recommendations

- Assure steps are taken to maintain relative humidity between 30% to 60% during the upcoming winter season. Sensitive persons may experience dryness/general discomfort of the upper respiratory system in low relative humidity situations.

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

October 14, 2020

Air Sample Location	Airborne Mold Concentrations (spores/m ³)	
	Total	Individual Mold Concentrations
Room 3	36300	Alternaria 200
		Ascospores 1800
		Aspergillus/Penicillium 600
		Basidiospores 28200
		Cladosporium 4600
		Epicoccum 80
		Paecilomyces-like 700
		Pestalotia 40
		Pyricularia 80
Room 43	19440	Ascospores 600
		Basidiospores 1800
		Cladosporium 600
		Curvularia 80
		Ganoderma 80
		Myxomycetes 80
Room 44	26160	Ascospores 1000
		Basidiospores 22600
		Cladosporium 2200
		Myxomycetes 80
		Unidentifiable Spores 200
		Peronospora 80
Room 17	3200	Basidiospores 2500
		Chaetomium 40
		Cladosporium 300
		Ganoderma 80
		Paecilomyces-like 200
		Yeast 80
Room 25	1780	Ascospores 40
		Basidiospores 1700
		Unidentifiable Spores 40
Outside	55160	Alternaria 200
		Ascospores 2100
		Aspergillus/Penicillium 200
		Basidiospores 44900
		Cladosporium 6800
		Curvularia 80
		Epicoccum 200
		Myxomycetes 200
		Rust 80
		Nigrospora 200
		Polythrincium 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 at 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: 372017162
Customer ID: EPIC62
Customer PO: 20-3198
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: 10/14/2020
Received Date: 10/15/2020
Analyzed Date: 10/19/2020

Project: Reutter ES Fall IAQ

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

Lab Sample Number:	372017162-0001			372017162-0002			372017162-0003		
Client Sample ID:	R-01			R-02			R-03		
Volume (L):	25			25			25		
Sample Location:	Rm. 3			Rm. 43			Rm. 44		
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)	2	200	0.6	-	-	-	-	-	-
Ascospores	22	1800	5	8	600	3.1	13	1000	3.8
Aspergillus/Penicillium	7	600	1.7	-	-	-	-	-	-
Basidiospores	353	28200	77.7	225	18000	92.6	282	22600	86.4
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	58	4600	12.7	7	600	3.1	28	2200	8.4
Curvularia	-	-	-	1	80	0.4	-	-	-
Epicoccum	1	80	0.2	-	-	-	-	-	-
Ganoderma	-	-	-	1	80	0.4	-	-	-
Myxomycetes++	-	-	-	1	80	0.4	1	80	0.3
Rust	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	2	200	0.8
Nigrospora	-	-	-	-	-	-	-	-	-
Paecilomyces-like	9	700	1.9	-	-	-	-	-	-
Peronospora	-	-	-	-	-	-	1	80	0.3
Pestalotia/Pestalotiopsis	1*	40*	0.1	-	-	-	-	-	-
Polythrincium	-	-	-	-	-	-	-	-	-
Pyricularia	1	80	0.2	-	-	-	-	-	-
Yeast	-	-	-	-	-	-	-	-	-
Total Fungi	454	36300	100	243	19440	100	327	26160	100
Hyphal Fragment	-	-	-	1*	40*	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	80	-	-	80	-	-	80	-
Analyt. Sensitivity 300x	-	40*	-	-	40*	-	-	40*	-
Skin Fragments (1-4)	-	3	-	-	3	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	3	-	-	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: 10/19/2020 04:23 PM

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



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Collected Date: 10/14/2020
Received Date: 10/15/2020
Analyzed Date: 10/19/2020

Project: Reutter ES Fall IAQ

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

Lab Sample Number:	372017162-0004			372017162-0005			372017162-0006		
Client Sample ID:	R-04			R-05			R-06		
Volume (L):	25			25			25		
Sample Location:	Outside			Rm. 17			Rm. 25		
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)	2	200	0.4	-	-	-	-	-	-
Ascospores	26	2100	3.8	-	-	-	1*	40*	2.2
Aspergillus/Penicillium	2	200	0.4	-	-	-	-	-	-
Basidiospores	561	44900	81.4	31	2500	78.1	21	1700	95.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	1*	40*	1.3	-	-	-
Cladosporium	85	6800	12.3	4	300	9.4	-	-	-
Curvularia	1	80	0.1	-	-	-	-	-	-
Epicoccum	2	200	0.4	-	-	-	-	-	-
Ganoderma	-	-	-	1	80	2.5	-	-	-
Myxomycetes++	3	200	0.4	-	-	-	-	-	-
Rust	1	80	0.1	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	1*	40*	2.2
Nigrospora	2	200	0.4	-	-	-	-	-	-
Paecilomyces-like	-	-	-	2	200	6.3	-	-	-
Peronospora	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	-	-	-
Polythrincium	2	200	0.4	-	-	-	-	-	-
Pyricularia	-	-	-	-	-	-	-	-	-
Yeast	-	-	-	1	80	2.5	-	-	-
Total Fungi	687	55160	100	40	3200	100	23	1780	100
Hyphal Fragment	-	-	-	-	-	-	1*	40*	-
Insect Fragment	-	-	-	1	80	-	-	-	-
Pollen	1*	40*	-	-	-	-	-	-	-
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	-	-	2	-
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

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

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Initial report from: 10/19/2020 04:23 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):

372017162

RECEIVED
EMSL
CHRYSTINA MINSON, NJ
20 OCT 2011 1:01
Westmont, NJ
107 Haddon Avenue
Westmont, NJ 08108
PHONE: (856) 858-4900
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**</small>			
Street: 1930 Brown Road		<i>Third Party Billing requires written authorization from third party</i>			
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: Repeater ES Fall IAR					
Please Provide Results: Email		Purchase Order: 20-3198	State Samples Taken: NJ		
Turnaround Time (TAT) Options* - Please Check					
<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					
<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-Q-Cell • M049 BioSIS • M030 Micro 5 	<ul style="list-style-type: none"> • M173 Alegro M2 • M003 Burkard • M174 MoldSnap 	<ul style="list-style-type: none"> • M004 Allergenco • M043 Cyclax • M176 Rella 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 <i>Cryptococcus neoformans</i> Detection • M120 <i>Histoplasma capsulatum</i> Detection • M033-39 Allergen Testing • M044 Group Allergen (Cat, Dog, Cockroach, Dustmites) • Other See Analytical Price Guide 			
Preservation Method (Water):					
Name of Sampler: Tim Eberts		Signature of Sampler:			
Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
R-01	Rm 3	AIR	Mp30	25L ^{5L/m} _{3m}	10/14/20 1218
R-02	Rm 43	↓	↓	↓	1225
R-03	Rm 44	↓	↓	↓	1231
R-04	Outside	↓	↓	↓	1239
R-05	Rm 17	↓	↓	↓	1247
R-06	Rm 25	↓	↓	↓	1254
Client Sample # (s): R-01 - R-06		Total # of Samples: 6			
Relinquished (Client):		Date: 10/15/20	Time: 1250		
Received (Client):		Date: 10-15-20	Time: 1:00		
Comments/Special Instructions:					



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