

October 4, 2023

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

RE: Indoor Air Quality Inspection Report – August 2023 Reutter Elementary School Epic Project No. 23-2269

Dear Mr. Zeck:

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 August 28, 2023.

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 12, Room 17, Room 20, Room 43, Room 1

Franklin Township Board of Education Indoor Air Quality Inspection Report – August 2023 Reutter Elementary School Epic Project No. 23-2269 October 4, 2023

Observations, Comments, and Recommendations

Weather Conditions: Sunny, 77° Fahrenheit, 72% Relative Humidity

Room 12

Visible mold was observed under wooden shelving.

No evidence of recent water intrusion was observed.

Relative humidity was within the normal range (49%). Temperature was within the acceptable range.

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

Recommendations were given to the district to clean wooden shelving surfaces with a product designed to kill mold and mold spores.

Room 17

Visible mold was observed under wooden shelving.

No evidence of recent water intrusion was observed.

Relative humidity was within the normal range (49%). Temperature was within the acceptable range.

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

Recommendations were given to the district to clean wooden shelving surfaces with a product designed to kill mold and mold spores.

Room 20

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within the normal range (49%). 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 normal range (52%). Temperature was within the acceptable range.

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

No action required at this time.

Room 1

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within the normal 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.

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.
- Clean all wooden shelving similar to the shelving in Rooms 12/17; as they are all suspected of having some amount of mold. If possible, refinish/paint shelving to prevent future mold growth.

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,

Timothy Eberts

Senior Project Manager

Epic Environmental Services, LLC

James Eberts President

Epic Environmental Services, LLC

James J. Eleuts

Franklin Township Board of Education Indoor Air Quality Inspection Report – August 2023 Reutter Elementary School Epic Project No. 23-2269 October 3, 2023

Sample Data Summary Air Sampling

Air Samples

August 28, 2023

7111 Dampies	11ugust 20, 2025				
Air Sample Location	Airborne Mold Concentrations (spores/m³)				
	Total Individual Mold Concentratio				
		Aspergillus/Penicillium	80		
Room 12	1000	Basidiospores	800		
		Cladosporium	80		
		Myxomycetes	40		
Room 17	700	Basidiospores	700		
		Aspergillus/Penicillium	200		
Room 20	2400	Basidiospores	2000		
		Cladosporium	200		
Room 43	1800	Basidiospores	1400		
		Cladosporium	400		
Room 1	700	Basidiospores	500		
		Cladosporium	200		
		Alternaria	80		
Outside	8500	Ascospores	200		
		Aspergillus/Penicillium	80		
		Basidiospores	5400		
		Cladosporium	2100		
		Epicoccum	80		
		Ganoderma	400		
		Myxomycetes	40		
		Rust	40		
		Nigrospora	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.



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: 372313520 Customer ID: EPIC62

Customer PO: Project ID:

Attention: Jim Eberts

Epic Environmental Services, LLC

80 Fork Bridge Road Pittsgrove, NJ 08318 **Phone:** (856) 205-1077 **Fax:** (856) 205-0413

 Collected Date:
 08/28/2023

 Received Date:
 08/28/2023

 Analyzed Date:
 09/05/2023

Project: Reutter ES IAQ

Test Report: M								•	
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	25			372313520-0002 R-02 25 Rm 12			372313520-0003 R-03 25 Rm 17		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Tota
Alternaria (Ulocladium)	1	80	0.9	- '	-	-	- '	-	-
Ascospores	2	200	2.4	-	-	-	-	-	-
Aspergillus/Penicillium	1	80	0.9	1	80	8	-	-	-
Basidiospores	68	5400	63.5	10	800	80	9	700	100
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	26	2100	24.7	1	80	8	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	1	80	0.9	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	5	400	4.7	-	-	-	-	-	-
Myxomycetes++	1*	40*	0.5	1*	40*	4	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	1*	40*	0.5	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Nigrospora	1	80	0.9	-	-	-	-	-	-
Total Fungi	107	8500	100	13	1000	100	9	700	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	1	80	-	-	-	-	-	-	-
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)	-	2	-	-	2	-	-	2	-

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

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

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

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-90%), or 5 (100%); overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

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

Initial report from: 09/05/2023 10:58 AM



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Project: Reutter ES IAQ

· · · · · · · · · · · · · · · · · · ·	icro-5(™) Analys	sis of Fungal Sp	ores & Particu	ılates by Optical	Microscopy (M	ethods MICRO	D-SOP-201, ASTI	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	3	72313520-0004 R-04 25 Rm 20		372313520-0005 R-05 25 Rm 43		372313520-0006 R-06 25 Rm 1			
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	2	200	8.3	-	-	-	-	-	-
Basidiospores	25	2000	83.3	17	1400	77.8	6	500	71.4
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	2	200	8.3	5	400	22.2	3	200	28.6
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-	_	-	-
Total Fungi	29	2400	100	22	1800	100	9	700	100
Hyphal Fragment	-	-	-	1	80	-	-	-	-
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.

Vouent Tuggolino

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

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

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Initial report from: 09/05/2023 10:58 AM

OrderID: 372313520



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North

Cinnaminson, NJ 08077 PHONE: 1-800-220-3675

EMAIL: c@emsl.com

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	Customer ID:										
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Information	Contact Name: Ja	mes Eberts		海 Billing (Contact: Jam	ames Eberts					
Info	Street Address: 80	Fork Bridge Road		4	Address: 80 F	ou Fork Bridge Road					
mer	City, State, Zip: Pi	ttsgrove NJ	08318 Country	08318 Country: US Pittsgrove NJ 08318 Country							
Customer	Phone: 85	56-205-1077	•	Phone: 856-205-1077							
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	Sterile,/S	Sodium Thiosulfate Preserved Bottle U Public Water Supply Sam		Jsed in Source (specific results may automate		to DOH if required	d by State				
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	3 Hour	6 Hour 24 Hour	32° Hour	48 Hour	72 Hour	96 Hour	1 Week	2 Week			
			MICRO	DBIOLOGY TEST COD	ES						
M00	1 Air-O-Cell	M174 MoldSnap		s aeruginosa (P/A***)		M115 Sewage Screen - Water (P/A***)					
-	0 Micro 5	M032 Allergenco-D		s aeruginosa (MFT*)		M116 Sewage Screen - Water (MPN**) M117 Sewage Screen - Swab (P/A***)					
	1 Fungal Direct Examina 9 Pollen ID & Enumerati		M015 Heterotrophic M017 Total Coliform	& E. Coli (Colilert P/A	****)	M013 Sewage Screen - Swab (MFT*)					
	Dust Characterization		M018 Total Coliform		,	M730 Methicillin-resistant Staph, aureus (MRSA)					
- AL	Dust Characterization		M114 Total Coliform & E. Coli Enumeration (Colilert MPN**) M031 Rapid-growing non-TB Mycobacteria De								
MODE	Viable Fungi-Air Samp	les (Genus ID & Count)	M019 Fecal Coliform (MFT*)								
	Wable Fungi-Air Samp Sosporium, Stachybotrys	eles (Includes Penicillum, Aspergillus,	M020 Fecal Streptococcus (MFT*) M014 Endotoxin Analysis								
			M029 Enterococci (MFT*) M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)								
		ace Samples (Genus ID & Count) ace Samples (Includes <i>Penicillum</i> ,	M129 Enterococci (Enterolert P/A***) M180 Real Time qPCR-ERMI 36 Panel Other - See Analytical Price Guide for Test Code								
		Stachybotrys Species ID & Count)	M025 Sewage Screen - Water (MFT*) Legionella Analysis Please use EMSL Legionella COC								
MOO	9 Bacteria Culture Gram	Stain & Count	*MFT= Membrane Filtration Technique								
M01	Bacteria Count & ID -	3 Most Prominent	**MPN = Most Probable Number								
M01	Bacteria Count & ID -	5 Most Prominent	***P/A = Presence/A	Absence							
	Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only)			
E	cample: Sample 1	Kitchen	Water	Potable	M017	1,000 ml	1/1/2021 3:30pm				
	2-01	akille	Ala		M030	252	8/28/23 1101				
(2-02	RM 12	1		1		1112				
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/	L-03	(M 1)					1126				
	2-04										
		2m 20 2m 43 2m 1					1126				
	2-04	2M 20 2M 43	gulatory Requirements	s (Sample Specification	s, Processing Meth	ods, Limits of Detec	1126				
	2-04	2m 20 2m 43 2m 1	gulatory Requirements		s, Processing Meth		1126				
Meth	2-04 2-06	2m 20 2m 43 2m 1		Sampl	e Condition Upon R		1126	hz 130			
Meth	N-04 N-04 od of Shipment:	AM 20 AM 43 AM 1 Special Instructions and/or Re	Date/Time:	Sampl	e Condition Upon R		1126 1133 V 1139 ction, etc.)	hz 130			



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: January 01, 2025 ✓ ENVIRONMENTAL LEAD Accreditation Expires: January 01, 2025 ✓ ENVIRONMENTAL MICROBIOLOGY Accreditation Expires: January 01, 2025 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. Charton

Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision20: 06/07/2022 Date Issued: 01/01/2023