

March 12, 2018

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

RE: Indoor Air Quality Inspection Report Reutter Elementary School Epic Project No. 18-1003

Dear Mr. Rambone:

Epic Environmental Services, LLC (Epic) was retained by the Franklin Township Board of Education (District) to perform an indoor air quality inspection at the Reutter Elementary School. The investigation consisted of a visual inspection and the collection of temperature, relative humidity, and carbon dioxide data.

The visual inspection focused on signs of moisture, water intrusion, and visible mold growth.

Temperature, relative humidity, and carbon dioxide data was compared to current New Jersey Indoor Air Quality and industry standards.

Epic Environmental performed the inspection on February 28, 2018.

Acceptable Temperature, Relative Humidity, and Carbon Dioxide Criteria

Acceptable Indoor Temperature Range:

68° - 79° Fahrenheit

Carbon Dioxide Trigger Level for Corrective Action:

1,000 ppm

Ideal Relative Humidity Range:

30-60%

The following rooms/areas were inspected: Main Office Suite, Room 21, Room 25, Room 53, Room 29, Room 19, Room 33 (Faculty), Supply Room (Office), All Purpose Room, Library, and Room 44.

HEALTH

SAFETY

ENVIRONMENT

Observations

Main Office Suite

No issues

Room 21

No issues

Room 25

No issues

Room 53

Slight dust buildup on air supply registers.

Room 29

Slight dust buildup on air supply registers.

Room 19

No issues

Room 33 (Faculty)

No issues

All Purpose Room

Slight dust buildup on air supply registers.

Library

No issues

Room 44

Carbon dioxide levels above 1,000 ppm (1150 ppm). Room was recently unoccupied.

Recommendations

- Dust build-up was observed on air supply registers in Room 53, Room 29, and All Purpose Room These registers should be cleaned and put on a routine cleaning schedule.
- Carbon dioxide concentrations were elevated in Room 44. Fresh air must be increased to assure that carbon dioxide concentrations remain below 1,000 ppm.
- Air samples for mold were collected in several areas in the school. Airborne mold concentrations were near or below outside (background) levels.

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

James J. Eleuts

HEALTH

SAFETY

ENVIRONMENT

Epic Environmental Services, LLC Tele: 856.205.1077

1930 Brown Road www.epic-env.com Newfield, New Jersey 08344 Fax: 856.205.0413 Franklin Township Board of Education Indoor Air Quality Inspection Report Reutter Elementary School Epic Project No. 18-1003 March 12, 2018

Sample Data Summary Air Sampling

Air Samples

February 28, 2018

Airborne Mold Concentrations (spores/m³)					
Individual Mold Concentrations					
	80 3,600 1,500				
ergillus/Penicillium diospores osporium	80 400 200				
spores ergillus/Penicillium diospores osporium	80 200 1,300 300				
rnaria orgillus/Penicillium diospores osporium occum	80 80 960 200 80				
de	dosporium coccum komycetes				

- 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.

Tele: 856.205.1077



EMSL Analytical, Inc.

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

371803831 EPIC62 18-1003

Project ID:

Attn: James Eberts

Epic Environmental Services, LLC

1930 Brown Road Newfield, NJ 08344 Phone: Fax:

(856) 205-1077

Collected:

(856) 205-0413 02/28/2018

Received:

03/01/2018

Analyzed:

03/08/2018

Proj: Reutter Elementary School, Franklin Twp BOE - IAQ Inspection

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:	371803831-0001 RES-01 25 Outside By Main Ent				71803831-0002 RES-02 25 Illway By Rm 27		371803831-0003 RES-03 25 Faculty Rm			
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Tota	
Alternaria		-	-	- 1	-	1 -		-		
Ascospores	1	80	1.5	-	-	-	1	80	4.3	
Aspergillus/Penicillium	•	- 0.00	1000-000	1	80	11.8	2	200	10.6	
Basidiospores	45	3600	69.5	5	400	58.8	16	1300	69.1	
Bipolaris++	Barrell Co.	-	-		-	-			_	
Chaetomium	-	-	-	-	-	-	•	-		
Cladosporium	19	1500	29	2	200	29.4	4	300	16	
Curvularia	-	-	-	enter a de la composition della composition dell	-	-	-	_		
Epicoccum	-		4.00	-	- I	-				
Fusarium	-	-		•	-	-	•	_		
Ganoderma		-	-	_	NYYSHARI SUUSISSISSISSISSISSISSISSISSISSISSISSISS	_				
Myxomycetes++	= -	- -	-	- -	-		•	_		
Pithomyces		70.7ma.				100002000				
Rust	-	-	- 1	-	-	-	-			
Scopulariopsis			- 1	-						
Stachybotrys	-	-	- 1	_	-	-				
Torula			History Leading						-	
Ulocladium	-	-	-		_	-	_			
Unidentifiable Spores			10002000		1000		ENCREMENTAL CONTRACTOR			
Zygomycetes	•	_	- 1	-						
Total Fungi	65	5180	100	8	680	100	23	4000	400	
Hyphal Fragment	1	80	-		-	-	23	1880	100	
Insect Fragment	_		1535328531		1000012			-		
Pollen	2	200	-		-	- 1		-		
Analyt. Sensitivity 600x	2000	80		-	80	-		80	•	
Analyt. Sensitivity 300x	-	40*	-	_	40*			40*		
Skin Fragments (1-4)		1	_		3				•	
Fibrous Particulate (1-4)	-	1			1		100	4		
Background (1-5)		2			2			2		

Bipolaris++ = Bipolaris/Drechslera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut

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

Vinent Tuzzolio

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

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. EMSL maintains liability limited to cost of analysis. 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. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

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

Initial report from: 03/08/2018 10:02:53



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03/01/2018 03/08/2018

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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	71803831-0004 RES-04 25 PR - Near Stage	Spores & Partic						
Spore Types	Raw Count	Count/m³	% of Total		ø				
Alternaria	1	80	5.4			-		1	
Ascospores	-	-	-			- 1			
Aspergillus/Penicillium	1	80	5.4						
Basidiospores	12	960	64.9			-			
Bipolaris++		100	- saud						
Chaetomium	•	-	- 1			-			
Cladosporium	2	200	13.5						
Curvularia	-	-	-						
Epicoccum	1	80	5.4						
Fusarium	-	-	-			-			
Ganoderma		_	-						
Myxomycetes++	1	80	5.4			-			
Pithomyces		112	140 - 600						
Rust	•		-			-			
Scopulariopsis									
Stachybotrys	-	-	-			-			
Torula		- 1							
Ulocladium	-	-	-			-			
Unidentifiable Spores	- 114	Esta-							
Zygomycetes	-	-	-			-			
Total Fungi	18	1480	100						
Hyphal Fragment	2	200	-						
Insect Fragment			- 10 m						
Pollen	-	-	-						
Analyt. Sensitivity 600x	-	80							
Analyt. Sensitivity 300x	-	40*	-			-			
Skin Fragments (1-4)	E. J China 1	3	100 5-000 200						
Fibrous Particulate (1-4)	-	1	-						
Background (1-5)		4							

Bipolaris++ = Bipolaris/Drechslera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut

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

Initial report from: 03/08/2018 10:02:53



Environmental Microbiology Chain of Custody EMSL Order Number(Lab Use Only):

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

		TONO	7.21					
Company: Epic E	nvironmental Services, LLC			EMSI	L-Bill to: V	Same [Different Commontate	
Street: 1930 Brow	n Road		Third	Party Billing	requires writt	en authoriza	comments— ation from third party	
City/State/Zip: No								
Report To (Name)	: James Eberts		Fax: 8	56-205-041	3			
Telephone: 856-2					eberts@ep			
Project Name/Nu	nber: Franklin Twp BOE – I	AQ Inspe	ction -	ReuHer	Elem	entary	School	
Please Provide Re	sults: Email Purchase Or	der: 18-1	1003		amples Tak			
	Turnaround	Time (TAT)	Options'	- Please Ch		P		
	6 Hour 24 Hour 2 accordance with EMSL's Terms and Con	46 Hour ditions facate	172 H	out S	id Hour	1 Week	2 Week	
	Non Cultur							
• MO01 Air-O-Cell • M049 BioSIS • M030 Micro 5	• M001 Air-O-Cell • M173 Alegro M2 • M004 All • M049 BioSiS • M003 Burkerd • M043 Cy				illergenco-D	• M172 Versa Trap		
- moo		M176 Relie r Microbio	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	• M130 V	la-Gell		>	
M007 Culturable F M008 Culturable F M009 Gram Stain M010 Bacterial Co Prominent M011 Bacterial Co Prominent	rungi (Speciation) - R Culturable Bacteria xunt and ID - 3 Most - R xunt and ID - 5 Most - R ntarrination in Buildings - R	Panel M018 Total I (Mem M020 Fecal	Coliform brane Filtr Streptoco brane Filtr sglonella I ational Wa	cous alion) Detection ster Screen	MO2 Detc M12 Detc M03 M04 CS	ction 0 <i>Histoplasi</i> ction 3-39 Allerge 4 Group Alle 1, Dog, Cool	xus neolormans me capsulatum m Testing	
Name of Sampler:	James Eberts Sample Location	S	Signat ample	Test	Volume		ate/Time Collected	
RES-01			Туре	Code				
RES-02	Hallway by Rm)	NAME OF TAXABLE PARTY.	ir	m030	250	annonement and being benefit	18/18 1002	
RES-03	Faculty Rm				250		1013	
RES-04	End of Sample	P -			251		L 1026	
Client Sample # (s): Relinquished (Client Received (Client):	I RES-OL > 2 Jan X-P 200 Fr	D	To ste: 3	tal # of Sam	8 Time:	1030	1530	
Comments/Specia				11/0				



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

- V INDUSTRIAL HYGIENE
 - V ENVIRONMENTAL LEAD

 V

 Output

 Description

 O
- ENVIRONMENTAL MICROBIOLOGY
 - ☐ FOOD ☐ UNIQUE SCOPES

- Accreditation Expires: September 01, 2018 Accreditation Expires: September 01, 2018
- Accreditation Expires: September 01, 2018 Accreditation Expires:
 - 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-AP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Um meed

William Walsh, CIH

Chairperson, Analytical Accreditation Board

Revision 15: 03/30/2016

Cheng G. Marten

Cheryl O. Morton

Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 08/31/2016