

August 19, 2019

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

RE: Indoor Air Quality Inspection Report – August 2019 Delsea High School Epic Project No. 19-3330

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 was compared to current New Jersey Indoor Air Quality and industry standards.

Epic Environmental performed the inspection August 8, 2019.

Acceptable Temperature, Relative Humidity, and Carbon Dioxide Criteria Acceptable Indoor Temperature Range: 68° - 79° Fahrenheit

30-60%

Ideal Relative Humidity Range:

The following rooms/areas were inspected:

Room E113, Room W101B, Room S114, Room S214, Room S204, Room C206, Room N104, Room C105

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Delsea Regional High School District Indoor Air Quality Inspection Report - August 2019 Delsea High School Epic Project No. 19-3330 August 19, 2019

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Observations, Comments, and Recommendations

Weather: Sunny, 75° Fahrenheit, 85% Relative Humidity

Room E113

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (63%). Temperature was within the normal range.

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

No action required at this time.

Room W101B

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within acceptable range (47%). Temperature was within the normal range.

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

No action required at this time.

Room S114

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within acceptable range (59%). Temperature was within the normal range.

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

No action required at this time.

Room S214

Minor potential visible mold was observed under tables/on horizontal surfaces.

No evidence of recent water intrusion was observed.

Relative humidity was significantly elevated (75%). Temperature was within the normal range.

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

Cleaning is recommended on horizontal surfaces/tables.

Room S204

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was elevated (62%). Temperature was within the normal range.

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

No action required at this time.

Room C206

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within acceptable range (59%). Temperature was within the normal range.

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

No action required at this time.

Room N104

No visible mold was observed.

No evidence of recent water intrusion was observed.

Relative humidity was within acceptable range (58%). Temperature was within the normal range.

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

No action required at this time.

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Room C105

No visible mold was observed.

No evidence of recent water intrusion was observed.

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

James J. Eleuts

HEALTH

SAFETY

ENVIRONMENT

Newfield, New Jersey 08344 Fax: 856.205.0413 August 19, 2019

Sample Data Summary Air Sampling

Air Samples

August 8, 2019

	14245 0,2017					
Air Sample Location	Airborne Mold Concentrations (spores/m³					
	Total	Individual Mold Cond	entrations			
		Ascospores	80			
Room E113	21,580	Basidiospores	21,100			
		Cladosporium	200			
		Unidentifiable Spores	200			
Room W101B	14,400	Basidiospores	14,200			
		Unidentifiable Spores	200			
		Ascospores	500			
Room S114	39,060	Basidiospores	37,900			
		Cladosporium	500			
		Ganoderma	80			
		Coelomycetes	80			
		Ascospores	600			
Room S214	89,420	Aspergillus/Penicillium	1000			
		Basidiospores	87,200			
		Cladosporium	300			
		Epicoccum	80			
		Ganoderma	40			
		Unidentifiable Spores	200			
		Ascospores	80			
Room S204	35,980	Aspergillus/Penicillium	200			
		Basidiospores	35,700			
Room C206	19,800	Basidiospores	19,800			
		Ascospores	700			
Room N104	56,060	Basidiospores	55,000			
		Cladosporium	200			
		Curvularia	80			
		Ganoderma	80			
		Ascospores	200			
Room C105	17,080	Basidiospores	16,800			
		Cladosporium	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.

HEALTHEpic Environmental Services, LLC

Tele: 856.205.1077

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1930 Brown Road Newfield, New Jersey 08344 www.epicenviro.com Fax: 856.205.0413

Delsea Regional High School District Indoor Air Quality Inspection Report – August 2019 Delsea High School Epic Project No. 19-3330 August 19, 2019

Sample Data Summary Air Sampling

Air Samples

August 8, 2019

Air Sample Location	Airborne	Airborne Mold Concentrations (spores/m³)				
	Total	Individual Mold Con	centrations			
		Ascospores	3700			
Outside by Greenhouse	156,420	Aspergillus/Penicillium	200			
	National Control of Co	Basidiospores	150,000			
		Bipolaris++	80			
		Cladosporium	1,800			
		Unidentifiable Spores	200			
	Section 1	Cercospora++	80			
		Coelomycetes	80			
		Polythrincium	80			
		Pyricularia	200			

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



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: Project ID: 371917620 EPIC62 19-3330

Attn: James Eberts

Epic Environmental Services, LLC

1930 Brown Road Newfield, NJ 08344 Phone: Fax: (856) 205-1077 (856) 205-0413

Collected: Received: 08/08/2019 08/09/2019

Analyzed:

08/15/2019

Proj: Delsea BOE - High School

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:		371917620-000 DHS-01 25 ide By Greenh		371917620-0002 371917620-000 DHS-02 DHS-03 26 26 E113 W101B					
Spore Types	Raw Count	Count/m ^a	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m*	% of Total
Alternaria (Ulocladium)		* to dest							
Ascospores	46	3700	2.4	1	80	0.4		-	-
Aspergillus/Penicillium	3	200	0.1	*		ut. 💌 🖖		is a seggi	
Basidiospores	1880	150000	95.9	264	21100	97.8	178	14200	98.6
Bipolaris++ Chaetomium	(80	0.1						
Cladosporium	22	1800	1.2	9.55	200	0.9	Zan Dr.		
Curvularia						•			
Epicoccum	- 10 × 10 × 10 × 10 × 10 × 10 × 10 × 10			g regare in	Textorial and State 161	. Nerezesent ig d	1. 8.5 Land		
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Pithomyces++							* * * * * * * * * * * * * * * * * * *		
Rust	•	•	*	-	-	-		*	
Scopulariopsis/Microascus	•								
Stachybotrys/Memnoniella	-	-	*	-	*	ж.	-		*
Unidentifiable Spores	3	200	0.1	2	200	0.9	2	200	1.4
Zygomycetes			*					•	
Cercospora++	1	80	0.1	and the second				er i e i e i e jeu di kaj ji ji ji ji	
Coelomycetes	1	80	0.1		* * * * * * * * * * * * * * * * * * *	**		*	
Polythrincium	1	80	0.1			•		*	
Pyricularia	2	200	0.1	100,1200,000,000			10 0000	• salido aperta il colo	• • 7.7
Total Fungi	1960	158420	100	269	21590	100	180	14400	100
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Background (1-5)	•	3	*		2		20019	2	Har

 \pm 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.

Vount Tuggolino

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

High levels of background perhadeler can obscure spores and other perhadeles, leading to undersestration. Background levels of 5 indicate an overloading of background perhadeles, provisiting accurate detection and quantification. Present > Spores detection overloading of background perhadeles, provisiting securate detection overloading securate provisions. The detection first is equal to one fungel spore, substituting poles, represent securate present securate of the periods peak of the periods peak of the period based on the percentage amplitude. EMSC, minimized by first extraction of the respective and the respe

Initial report from: 08/16/2019 11:51:48



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200 Route 130 North Cinnaminson, NJ 08077 Phone/Fax: (800) 220-3675 / (856) 786-0262 http://www.EMSL.com / cinnmicrofab@emsl.com Order ID: Customer ID: Customer PO: 371917620 EPIC62 19-3330

Project ID:

Attn: James Eberts

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		371917620-000 DHS-04 25 S114	4	371917620-0005 37 DHS-05 25 \$214				371917620-000 DHS-06 25 8204	DHS-06 25	
Spore Types	Raw Count	Count/m ^a	% of Total	Raw Count	Count/m²	% of Total	Raw Count	Count/m²	% of Total	
Alternaria (Ulocladium)	•		•	•	•				Sindiane Especialis	
Ascospores	6	500	1.3	8	600	0.7	1	80	0.2	
Aspergillus/Penicillium		•		13	1000	1.1	3	200	0.6	
Basidiospores	474	37900	97	1090	87200	97.5	446	35700	99.2	
Bipolaris++	*						BU, VISTOR			
Chaetomium	* - (18)	- 1	n envertal	5.5	* ***********					
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Fusarium					80	0.1	*			
Ganoderma		80	0.2		40*					
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+ 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 luzzolino, M.S., Laboratory Director or Other Approved Signatory

High levels of background personalise can obsoure spores and other personalises, leading to underestimation. Background levels of 5 inducate an overbacking of background personalises prohibiting accurate detection and quentification, Present = Spore. defacted on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one lungel apore, structure, poller, fiber perticle or insect in agreent. "" Denotes particles soon to method stopping rules, raw counts in occase of 100 are extrapolated based on the percentage analyzed. EMSL maintains bailety lembed to court of analysis. Interpretation and use of law reside are the responsibility of the deem. 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 eartiple collection activities or analytical method limitations. The report refereds the eartiples as received. When the information mapplied by the customer can affect the unlicity of the result, it will be noticed in the report Summittee entityted by ENSL Analytical, Inc. Conneminator, NJ AHA-LAP, LLC-ENLAP Lab 100194

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	sle (C): DHS-07 ne (L): 26		iample ID: DHS-07 olume (L): 26		DHS-07 DHS-08 DHS-0 26 25 25			DHS-07 26			DHS-08 25			DHS-08 25		371917620-0009 DHS-09 26 C105	
Spore Types	Raw Count	Count/m²	% of Total	Raw Count	Count/m²	% of Total	Raw Count	Countim	% of Total								
Alternaria (Ulocladium)	•	•	in well-flow														
Ascospores	VINCE OUT A VITA I E PASSA			9	700	1.2	2	200	1.2								
Aspergillus/Penicillium		*		•	- <u>*</u> ,)%		•										
Basidiospores	248	19800	100	688	55000	98.1	210	16800	98.4								
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Ganoderma					80	0.1											
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Stachybotrys/Memnoniella		-	**********	•	# #	. 1000000	-	*									
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Background (1-5)	Sugar september 1	4		t profession to	and the Z	*	800 - 100 · #	2 (1,5), (1,									

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

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

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

High levels of background perfociate can obscure apores and other perfociates, leading to underestimation. Background levels of 5 indicate an overfooding of background pertociates, providing accurate statectors and quartification. Present = Spores other samples. Results are not blank corrected unless otherwise noted. The delection limit is equal to one fungal apore, shurdure, polien, floor particle or insent inspirient, "" Denotes particles lound at 300%. "" Denotes not delected. Due to method stopping rules, raise counts in excess of 190 are extrapolated based on the parcentage analyzed. EMSL metrians is ability limited to cost of analysis. Interpretation and use of seat residue are the responsibility of the client. This report reliable analyzed this samples reported above, and may not be reproduced, except in full, without teritan approval by EMSL. EMSL bears no responsibility for cample collection activities or arisinglical method limitations. The report reflects the samples as received. When the information supplied by the customer can effect the validity of the result, it will be noted on the report Semples analyzed by EMSL Analytical, Inc. Consentreon, NJ ANA-LAP, LLC-EMLAP Lab 100194

Initial report from: 08/16/2019 11:51:48



Environmental Microbiology Chain of Custody EMSL EMSL Order Number (200 000)

Westmont, NJ 107 Haddon Avenue Westmont, NJ 08108 PHONE: (958) 958-4800 FAX: (958) 958-4800

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Cin/State/Zip: No				ray amy	CALLES WILE I BUI		w amo pary		
Report To (Name)	: James Eberts		Fax: 8	56-205-0413					
Telephone: 856-2	05.1077				erts@epicenvi	ro com			
Project Name/Nur		Jul. 4. I	and the second second						
Please Provide Re	DEIDER DVL	see Order:		Charles Co	moles Taken: N	11			
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Name of Sampler . Sample 9	James Eberts Sample Locati		Signs Sample	ture of Samp	AAA	44	4		
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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

INDUSTRIAL HYGIENE

ENVIRONMENTAL MICROBIOLOGY ENVIRONMENTAL LEAD

UNIQUE SCOPES

Accreditation Expires: November 01, 2020 Accreditation Expires: November 01, 2020

Accreditation Expires: November 01, 2020

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-LAP, LLC Cheng of Charten website (www.aihaaccreditedlabs.org) for the most current Scope.

Chairperson, Analytical Accreditation Board Elizabeth Bair

Revision 17 – 09/11/2018

Cheryl O. Morton

Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 11/30/2018