



AccuScience™ Analysis Report

QLab, 256 Bridge St, Metuchen, NJ 08840

info@qlabusa.com www.QLABusa.com

AIHA EMPAT Lab ID: 178794

Analysis: AccuScience Premium Level 3 Fungal Spore Count™
Client: RK Environmental
 Phillipsburg, NJ
Contact: McGuinness, Michael
Project ID: Willow Grove School
Date Sampled: 11/10/2017

QLab Job No.: CH17-1110-17
Date Received: 11/10/2017
Date Analyzed: 11/10/2017
Date Reported: 11/10/2017

Reviewed by: WT

Approved by: Wei-Chih Tang, Ph.D., Lab Director

Lab Sample No.	CH17-1110-17(1)			CH17-1110-17(2)			CH17-1110-17(3)		
Sample ID	2235757			2235753			2235767		
Sample Location	Girls Bathroom C			C105			Faculty Bathroom		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L			75 L		
Total Concentration (counts/m³)**	2,300 cts/m³			770 cts/m³			2,300 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
1. Common Dominant Spores	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)	15	200	9	8	110	14	8	110	5
Basidiospores (O,I)	49	650	28	19	250	32	26	350	15
Cladosporium, Group HM (O)									
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™									
Cladosporium, Group C (O,I)	68	910	40	22	290	38	102	1,400	61
Cladosporium, Group S (I)									
Aspergillus/Penicillium-like (I,O) ** Cluster-Chain-Loose Spore Profile™				8	110	14	18	240	10
Cluster(s)					0% - 0% - 100%			78% - 0% - 22%	
								1 cluster(s) of 14 spores	
2. Indoor Hydrophilic Fungi*	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Stachybotrys (I)									
Chaetomium (I)									
Ulocladium (I)									
Memnoniella (I)									
Trichoderma (I)									
Scopulariopsis (I)									
3. Others	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Hyphal fragment (O,I)				1	13	2	5	67	3
Alternaria (O,I)									
Cercospora (O)									
Curvularia (O,I)									
Drechslera/Bipolaris-like (O)									
Epicoccum (O)	1	13	<1				1	13	<1
Fusarium (O,I)									
Myxomycetes/Smuts/Periconia (O,I)	8	110	5				5	67	3
Nigrospora (O)									
Pithomyces (O)							3	40	2
Rusts (O)	6	80	4				1	13	<1
Unknown (O,I)	24	320	14						
Skin Cells Rating	Medium			Medium			Medium		
Debris Rating	3 (26 - 75%)			3 (26 - 75%)			3 (26 - 75%)		
Note									

*: cts/smp: counts per sample. **: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores; Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.



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Lab Sample No.	CH17-1110-17(4)			CH17-1110-17(5)		
Sample ID	2235754			2235762		
Sample Location	Boys Bathroom C			OAR		
Sample Type (Device)	Air (Allergenco-D)			Air (Allergenco-D)		
Air Volume	75 L			75 L		
Total Concentration (counts/m³)**	1,400 cts/m³			2,500 cts/m³		
Mycologix Profile Group 1, 2 & 3	cts/smp*	counts/m³	%	cts/smp*	counts/m³	%
1. Common Dominant Spores	DL = 53; LQL = 1100 cts/m³			DL = 53; LQL = 1100 cts/m³		
Ascospores, non-specified (O)				8	110	4
Basidiospores (O,I)	8	110	8	42	560	23
Cladosporium, Group HM (O)						
Aspergillus/Penicillium-like, DOT (O) #Cluster-Chain-Loose Spore Profile™						
Cladosporium, Group C (O,I)	82	1,100	77	121	1,600	65
Cladosporium, Group S (I)						
Aspergillus/Penicillium-like (I,O) ## Cluster-Chain-Loose Spore Profile™	8	110	8	4	53	2
Cluster(s)	0% - 0% - 100%			0% - 0% - 100%		
2. Indoor Hydrophilic Fungi#	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Stachybotrys (I)						
Chaetomium (I)						
Ulocladium (I)						
Memnoniella (I)						
Trichoderma (I)						
Scopulariopsis (I)						
3. Others	DL = 13; LQL = 270 cts/m³			DL = 13; LQL = 270 cts/m³		
Hyphal fragment (O,I)				4	53	2
Alternaria (O,I)	1	13	<1	1	13	<1
Cercospora (O)						
Curvularia (O,I)						
Drechslera/Bipolaris-like (O)						
Epicoccum (O)				1	13	<1
Fusarium (O,I)						
Myxomycetes/Smuts/Periconia (O,I)	4	53	4	1	13	<1
Nigrospora (O)						
Pithomyces (O)				1	13	<1
Rusts (O)	3	40	3	1	13	<1
Unknown (O,I)				2	27	1
Skin Cells Rating	Medium			Trace		
Debris Rating	3 (26 - 75%)			2 (6 - 25%)		
Note						

*: cts/smp: counts per sample. **: All concentrations are rounded to two digits of significant figures. Total concentrations/percentages may not be equal to the sum of individual concentrations/percentages due to rounding. #: Water-loving indoor fungi (min Aw ≥0.89). Absence of hydrophilic fungi does not exclude the possibility of a water damage history. DL: detection limit (analytical sensitivity). LQL: Lower quantitation limit = 20 x DL. Upper quantitation limit depends on sample conditions. ## Asp/Pen-like spores: Loose: 1 to 2 spores; Chain: 3 to 9 spores; Cluster: 10 spores or more. O: Mostly outdoor origin with rare exceptions; I: Mostly indoor origin with rare exceptions. Distinct Outdoor Type (DOT): Distinct outdoor Asp/Pen spores that can be easily differentiated from indoor Asp/Pen spores. DOT is specific to the batch of samples collected at the same time and cannot be used for other batches.



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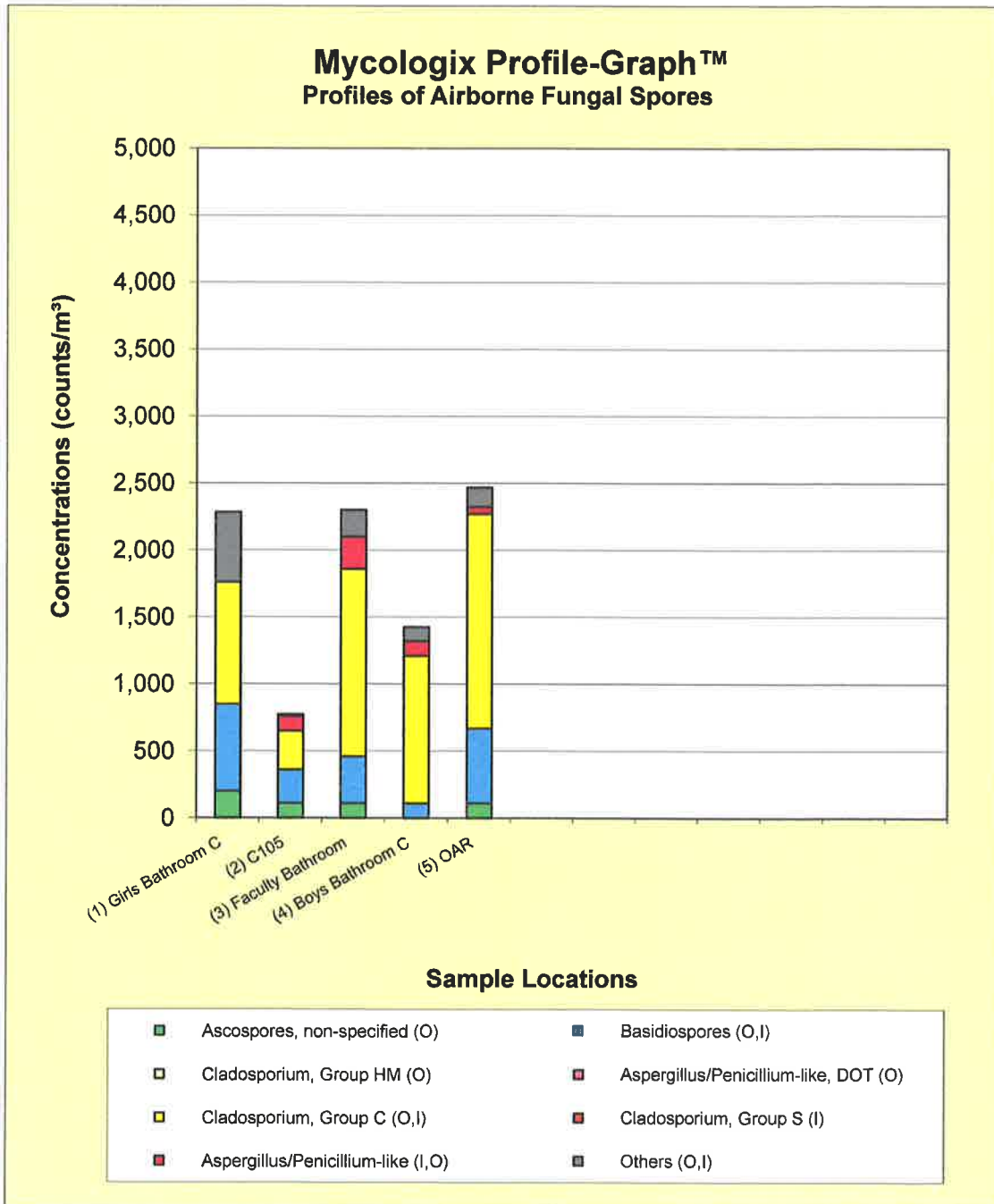
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Phillipsburg, NJ
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Please see original data for complete interpretation.



PUSH!

PUSH!



Chain of Custody

Toll Free Tel/Fax: 888-QLab-Wei (888-752-2934)
Tel: 856-489-0011 www.QLabUSA.com

256 Bridge Street, Metuchen, NJ 08840, USA

Lab Job No.: (lab use only)	CH17-1110-17	Telephone No.: 908-454-6316	Company Contact: McGuinness, Michael
Company Name:	RK Environmental	Please select: Fax Report () or Email Report ()	Project ID: Willow Row School
Company Address:	401 St. James Ave, Phillipsburg, NJ	Fax No.:	Date/Time sampled: 11/16/17
Email address: rkenvironmental@centermail.net		P.O. No.: 17-130	

Sample ID	Sample Location	Analysis Code	Turnaround Time (Std. 1-2 Day, 3-6 Hr)		Sample Type (see below)	Volume (L) or Area (in ²)	Note (e.g.: material type, weather, etc.)
			Std	Day			
1 2235757	girls B-room C	FD-01HP			3 Andersen D	752	
2 2235753	C105						
3 2235767	Faculty Bathroom						
4 2235754	Boys Bathroom C						
5 2235762	OAR						
6 RK-WGES-01T	C105	FD02-HP			Gel Tape	Complaint	
7 RK-WGES-02T	Faculty Bathroom						
8 RK-WGES-03T	Boys B-Room C						
9 RK-WGES-04T	Girls Bathroom C						

Sample Types: Air-O-Cell, Bio-Tape, swab, Andersen, bulk, dust, filter cassette, potable water, non-potable water, etc. **Material Types:** wood, paper, etc.

Common Analysis Codes: Fungi, Direct Exam: (1) Spore Trap: **FD-01HP**; (2) Tape-lift: **FD-02HP**; (3) Swab, Bulk, Dust: **FD-04HP**.
Fungi, Culture: (1) Andersen/plate: **FC-11**; (2) Swab, Bulk, Dust: **FC-12**

Submitted by: (sign) Maggie Kim (print) John Horak Date submitted: 11/16/17

Received by: (sign) Maggie Kim (print) Maggie Kim Date and time received: 11/10/17 1:19PM

How Delivered



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Analysis Report

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AIHA EMPAT Lab ID: 178794

Analysis: AccuScience Premium Direct Exam (FD-02HP)
Client: RK Environmental
Phillipsburg, NJ
Contact: McGuinness, Michael
Project ID: Willow Grove School

QLab Job No.: CH17-1110-17
Date Sampled: 11/10/2017
Date Received: 11/10/2017
Date Reported: 11/10/2017

Reviewed by: WT

Approved by: Wei-Chih Tang, Ph.D., Lab Director

Lab Sample No.	CH17-1110-17(6)		CH17-1110-17(7)		CH17-1110-17(8)	
Sample ID	RK-WGES-01T		RK-WGES-02T		RK-WGES-03T	
Sample Location	C105		Faculty Bathroom		Boys Bathroom C	
Sample Type (Device)	Air (Allergenco-D)		Air (Allergenco-D)		Air (Allergenco-D)	
Date Analyzed	11/10/2017		11/10/2017		11/10/2017	
Identification	(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*		(1) Peak Density (within 1 mm dia.)*	
	Spores	Hyphae/Structure	Spores	Hyphae/Structure	Spores	Hyphae/Structure
Major Hydrophilic Fungi:***						
Stachybotrys						
Chaetomium						
Ulocladium						
Acremonium						
Trichoderma						
Aureobasidium						
Yeasts (cells)						
Other Fungi:						
Aspergillus/Penicillium-like	+				+	
Aspergillus						
Penicillium						
Cladosporium	+		+		+	
Alternaria						
Curvularia	+					
Epicoccum						
Myxomycetes/smuts/Periconia	+					
Nigrospora						
Pithomyces	+					
Unidentifiable w/o culturing	+			+	+	+
Summary						
	(2) Overall Coverage		(2) Overall Coverage		(2) Overall Coverage	
Sample Size Examined	150 mm ²		150 mm ²		150 mm ²	
Mycologix™ Fungal Biomass Level#	1: Normal Background		1: Normal Background		1: Normal Background	
Mold/Yeast Growth Observed	No		No		No	
Sample Mold/Yeast Coverage**	Trace: < 3%		Trace: < 3%		Trace: < 3%	
Sample Debris Coverage**	Medium: 10 - 50%		Low: 3 - 10%		Low: 3 - 10%	
Note						

Mycologix™ Fungal Biomass Level: 1: Normal Background, 2A: Settled Biomass, 2B: Residual Biomass
3A: Slight Growth, 3B: Moderate Growth, 3C: Heavy Growth

*Peak Density: Peak density of fungal biomass (spores, reproduction structures, hyphae, etc.)
observed under the microscope within the viewfield of 200X magnification (approximately 1 mm in diameter).
++++, +++, ++, +: Biomass covering >50%, 10-50%, 3-10%, <3% of the 200X viewfield, respectively

** Sample Coverage of Fungi/Debris: Overall coverage of fungal biomass/debris collected on the tape samples
Tape/slide samples are taken from bulk/swab samples received and then analyzed under microscope.

High, Medium, Low, Trace: Biomass/debris covering >50%, 10-50%, 3-10%, <3% of the entire sample, respectively

***Hydrophilic Fungi: Water-loving fungi, Min. Aw >0.89. Absence of hydrophilic fungi does not exclude the possibility of a water damage history.



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Contact: McGuinness, Michael
Project ID: Willow Grove School

QLab Job No.: CH17-1110-17
Date Sampled: 11/10/2017
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Date Reported: 11/10/2017

Lab Sample No.	CH17-1110-17(9)			
Sample ID	RK-WGES-04T			
Sample Location	Girls Bathroom C			
Sample Type (Device)	Air (Allergenco-D)			
Date Analyzed	11/10/2017			
Identification	(1) Peak Density (within 1 mm dia.)*			
	Spores	Hyphae/Structure		
Major Hydrophilic Fungi:***				
Stachybotrys				
Chaetomium				
Ulocladium				
Acremonium				
Trichoderma				
Aureobasidium				
Yeasts (cells)				
Other Fungi:				
Aspergillus/Penicillium-like				
Aspergillus				
Penicillium				
Cladosporium	+			
Alternaria				
Curvularia				
Epicoccum				
Myxomycetes/smuts/Periconia				
Nigrospora				
Pithomyces				
Unidentifiable w/o culturing	+			
Summary	(2) Overall Coverage			
Sample Size Examined	150 mm ²			
Mycologix™ Fungal Biomass Level#	1: Normal Background			
Mold/Yeast Growth Observed	No			
Sample Mold/Yeast Coverage**	Trace: < 3%			
Sample Debris Coverage**	Low: 3 - 10%			
Note				

Mycologix™ Fungal Biomass Level: 1: Normal Background, 2A: Settled Biomass, 2B: Residual Biomass
3A: Slight Growth, 3B: Moderate Growth, 3C: Heavy Growth

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observed under the microscope within the viewfield of 200X magnification (approximately 1 mm in diameter).

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