

August 31, 2020

Client Name and Address: MAC Services, LLC 21 Mill Pond Drive Rochester, MA 02770

Re: Microbial Analytical Results from: Chace Elementary School; Beverly St; Somerset, MA

H2O Laboratory Number:03537

Dear Joseph Cooney,

We at H2O EnviroComp would like to thank you for your recent business. Samples were received on 8/24/2020 from a job located at Chace Elementary School; Beverly St; Somerset, MA. The final report is enclosed for the following samples: 1-12.

Please note that environmental conditions should be taken into account when interpreting the associated data and sampling at any other time period may produce differing results. H2O EnviroComp follows prescribed procedures for the analysis of air cassettes and direct samples to identify and quantify particulate and microbiological contamination.

These results only pertain to this job and should not be used in the interpretation of any other job. This report may be reproduced only in its entirety.

If you have any questions please do not hesitate to call me at the number below.

Regards,

Steven Grevelis Laboratory Director

Enclosures:

- Analytical results
- Chain of Custody
- Fungal glossary

EnviroComp)	H2O E Indoor Air Air San	nviroComp Quality Report nple Report	24 West Denr Phone	School Street P.O. Box 444 iis, MA 02670 508.737.4289
Company:	MAC Services, LLC	Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Cooney	Project Name:	Chace Elementary School; Beverly St; Somerset. MA	Date Received:	8/24/2020
Address:	21 Mill Pond Drive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020
City, ST, Zip:	Rochester, MA 02770) Lab No:	03537	Date Reported:	8/31/2020
Phone:	508-789-0983			Report Status:	Version 1
		Mold Identifica	ation by Samples		
Sample N	umber: 035	37-01	Sample Medium:	Allergenc	o-D

Sample Number.	03337-01	Sample Medium:	Alle	ergenc	:0-D
Client Sample ID:	4112124	Sampling Rate:	15L/Min	for	5 Minutes
Magnification:	600 X	Total Liters:		75	
		Location:	Outdoor @	Front	t of Building

			Count/			Count/
			Cubic		Raw	Cubic
Туре:		Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specif	ied	16	674	Smuts	1	42
Basidiospores, Non-spe	cified	52	2189	Rusts	1	42
Aspergillus/Penicillium-L	_ike	1	42	Spegazzinia	ND	ND
Cladosporium		11	463	Stachybotrys	ND	ND
Chaetomium		ND	ND	Ulocladium	ND	ND
Ganoderma		3	126	Coprinus	ND	ND
Pithomyces		ND	ND	Un-ID Spore	ND	ND
Alternaria		1	42	Pollen	ND	ND
Cercospora-like		ND	ND	Hyphal Frags	ND	ND
Curvularia		ND	ND	Insect Frags	ND	ND
Epicoccum		ND	ND			
Memnoniella		ND	ND			
			-	Sample Data Com	iments:	
Skin Fragment Prevalen	ice; 1 (Low) to	4 (High):	1			
Background Density; 1 (Low) to 5 (Ove	erloaded):	1			
	Total Funga	I Raw Count:	86			
Analytical Sensi	tivity (Spore/C	ubic Meter):	42			
	Numbe	r of Traverses:	12			
Total Fungal Cou	unt (Spore/Cu	ibic Meter):	3621			
Reporting Notes:	N/A = N	lot Applicable				
	ND = N	one Detected				
	-					

* = Type detected observed in clumps

Analyzed by: Steven Grevelis Analyzed Date: 8/31/2020

EnviroComp)		H2O Ei Indoor Air Air Sam	nviroComp Quality Report ıple Report	24 West Denr Phone	School Street P.O. Box 444 iis, MA 02670 508.737.4289
Company:	MAC Services	, LLC II	nspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Coone	ey F	Project Name:	Chace Elementary School; Beverly St; Somerset MA	Date Received:	8/24/2020
Address:	21 Mill Pond D)rive F	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020
City, ST, Zip:	Rochester, MA	02770 L	_ab No:	03537	Date Reported:	8/31/2020
Phone:	508-789-0983				Report Status:	Version 1
			Mold Identifica	ation by Samples		
Sample N Client Sample Magnification	umber: • ID: •:	03537 4112134 600 X	7-02 4	Sample Medium Sampling Rate Total Liters	Allergenc 15L/Min for 75	o-D 5 Minutes

Center of Kitchen

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	2	84	Smuts	1	42
Basidiospores, Non-specified	5	211	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	1	42	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Commen	its:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	9			
Analytical Sensitivity (Spore/C	ubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cu	ubic Meter):	379			
Reporting Notes: N/A = N ND = N	Not Applicable Ione Detected				

 \star = Type detected observed in clumps

EnviroComp)		H2O E Indoor Air Air San	nviroComp Quality Report ıple Report	24 West Denr Phone	School Street P.O. Box 444 iis, MA 02670 508.737.4289
Company:	MAC Services	, LLC	Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Coone	зy	Project Name:	Chace Elementary School; Beverly St; Somerset MA	Date Received:	8/24/2020
Address:	21 Mill Pond D)rive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020
City, ST, Zip:	Rochester, MA	02770	Lab No:	03537	Date Reported:	8/31/2020
Phone:	508-789-0983				Report Status:	Version 1
			Mold Identifica	ation by Samples		
Sample N Client Sample Magnification	umber: • ID: •:	0353 411212 600 X	7-03 29	Sample Medium Sampling Rate Total Liters	: Allergenc : 15L/Min for : : 75	o-D 5 Minutes

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	10	421	Rusts	ND	ND
Aspergillus/Penicillium-Like	ND	ND	Spegazzinia	ND	ND
Cladosporium	3	126	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	1	42	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Commer	nts:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	15			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cu	ubic Meter):	632			
Reporting Notes: N/A = I ND = N	Not Applicable Jone Detected				

 \star = Type detected observed in clumps

Cafetorium on Stage

Location:

EnviroComp)		H2O E Indoor Air Air San	nviroComp Quality Report nple Report	24 West Denr Phone	School Street P.O. Box 444 iis, MA 02670 508.737.4289
Company:	MAC Services	, LLC	Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Coone	ey	Project Name:	Chace Elementary School; Beverly St; Somerset MA	Date Received:	8/24/2020
Address:	21 Mill Pond I)rive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020
City, ST, Zip:	Rochester, M	02770	Lab No:	03537	Date Reported:	8/31/2020
Phone:	508-789-0983				Report Status:	Version 1
			Mold Identifica	ation by Samples		
Sample N Client Sample Magnification	umber: • ID: •:	0353 41121 600 X	37-04 33	Sample Medium Sampling Rate Total Liters	: Allergenc : 15L/Min for : 75	o-D 5 Minutes

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	2	84	Rusts	ND	ND
Aspergillus/Penicillium-Like	40	1684	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Commer	nts:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	42			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Co	ubic Meter):	1768			
Reporting Notes: N/A = ND = ND = ND	Not Applicable Jone Detected				

 \star = Type detected observed in clumps

Bathroom off Kitchen

EnviroComp)		H2O E Indoor Air Air San	nviroComp Quality Report nple Report	24 West Denr Phone	School Street P.O. Box 444 his, MA 02670 508.737.4289
Company:	MAC Services	, LLC	Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Coone	ey	Project Name:	Chace Elementary School; Beverly St; Somerset MA	Date Received:	8/24/2020
Address:	21 Mill Pond I)rive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020
City, ST, Zip:	Rochester, M	02770	Lab No:	03537	Date Reported:	8/31/2020
Phone:	508-789-0983				Report Status:	Version 1
			Mold Identifica	ation by Samples		
Sample N Client Sample Magnification	umber: • ID: •:	0353 41121 600 X	37-05 23	Sample Medium Sampling Rate Total Liters	: Allergenc : 15L/Min for :: 75	:o-D 5 Minutes

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	6	253	Rusts	ND	ND
Aspergillus/Penicillium-Like	332	13979	Spegazzinia	ND	ND
Cladosporium	1	42	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Commen	its:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	340			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cu	ubic Meter):	14316			
Reporting Notes: N/A = I ND = N	Not Applicable Jone Detected				

* = Type detected observed in clumps

Room 12 Next to Sink

EnviroComp			H2O E Indoor Air Air San	nviroComp Quality Report ıple Report	24 West Denr Phone	School Street P.O. Box 444 iis, MA 02670 508.737.4289
Company:	MAC Services	, LLC	Inspector:	Joseph Cooney	Date Sampled:	8/20/2020
Contact:	Joseph Coone	зy	Project Name:	Chace Elementary School; Beverly St; Somerset MA	Date Received:	8/24/2020
Address:	21 Mill Pond D)rive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020
City, ST, Zip:	Rochester, MA	02770	Lab No:	03537	Date Reported:	8/31/2020
Phone:	508-789-0983				Report Status:	Version 1
			Mold Identifica	ation by Samples		
Sample N Client Sample Magnification	umber: • ID: •:	0353 411212 600 X	7-06 22	Sample Medium Sampling Rate Total Liters	: Allergenc : 15L/Min for : : 75	o-D 5 Minutes

Room 7 Next to Sink

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	8	337	Rusts	ND	ND
Aspergillus/Penicillium-Like	424	17853	Spegazzinia	ND	ND
Cladosporium	1	42	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	2	84	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Comme	ents:	
Skin Fragment Prevalence; 1 (Low)	to 4 (High):	1			
Background Density; 1 (Low) to 5 (C	verloaded):	1			
Total Fun	gal Raw Count:	436			
Analytical Sensitivity (Spore	Cubic Meter):	42			
Numl	per of Traverses:	12			
Total Fungal Count (Spore/0	Cubic Meter):	18358			
Reporting Notes: N/A =	Not Applicable				
ND =	None Detected				

* = Type detected observed in clumps

EnviroComp)	H2O EnviroComp Indoor Air Quality Report Air Sample Report			24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289		
Company:	MAC Services	, LLC	Inspector:	Joseph Cooney	Date Sampled:	8/20/2020	
Contact:	Joseph Coone	ey	Project Name:	Chace Elementary School; Beverly St; Somerset MA	Date Received:	8/24/2020	
Address:	21 Mill Pond E)rive	Project Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020	
City, ST, Zip:	Rochester, MA	02770	Lab No:	03537	Date Reported:	8/31/2020	
Phone:	508-789-0983				Report Status:	Version 1	
			Mold Identifica	ation by Samples			
Sample N Client Sample Magnification	umber: • ID: •:	0353 41121 600 X	37-07 20	Sample Medium Sampling Rate Total Liters	: Allergenc : 15L/Min for :: 75	:o-D 5 Minutes	

Sample Data:

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	4	168	Rusts	ND	ND
Aspergillus/Penicillium-Like	127	5347	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Commer	nts:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	131			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cu	ubic Meter):	5516			
Reporting Notes: N/A = I ND = N	Not Applicable Jone Detected				

 \star = Type detected observed in clumps

Analyzed by: Steven Grevelis Analyzed Date: 8/31/2020 Room 18 Next to Sink

EnviroComp	H2O EnviroComp Indoor Air Quality Report Air Sample Report				W	24 est Denr Phone	School Street P.O. Box 444 his, MA 02670 508.737.4289
Company:	MAC Services, LLC	Inspector:	Joseph Co	oney	Date Sa	mpled:	8/20/2020
Contact:	Joseph Cooney	Project Name:	Chace Ele School; Be Somerset, Project Nu	mentary everly St; MA mber: 2020-	Date Re	ceived:	8/24/2020
/100001			211		2410741		0,01,2020
City, ST, Zip:	Rochester, MA 02770	Lab No:	03537		Date Re	ported:	8/31/2020
Phone:	508-789-0983				Report	Status:	Version 1
		Mold Identifica	ation by Sa	mples			
Sample No Client Sample Magnification	umber: 0353 ID: 41121 : 600 X	37-08 28	Sa	imple Medium Sampling Rate Total Liters Location	15L/Min Girls Maint M	Allergenc for 75 Bathroon enence (ohawk Ha	co-D 5 Minutes n Next to Closet on allway
			Count/	T			Count/
			Cubic			Raw	Cubic
	Туре:	Raw Count	Meter	Туре:		Count	Meter
Ascospores, N	lon-specified	2	84	Smuts		ND	ND
Basidiospores	, Non-specified	2	84	Rusts		ND	ND
Aspergillus/Pe	nicillium-Like	46	1937	Spegazzinia		ND	ND
Cladosporium		ND	ND	Stachybotrys		ND	ND
Chaetomium		ND	ND	Ulociadium			
Bithomycoc				Ingrospora			
Alternaria				Pollen			
Cercospora-lik	e	ND	ND	Hyphal Frags		ND	ND
Curvularia		ND	ND	Insect Frags		ND	ND
Epicoccum		ND	ND				
Oidium		ND	ND				
		•		Sample Data	Commen	ts:	
Skin Fragment	t Prevalence; 1 (Low) to	o 4 (High):	1				
Background D	ensity; 1 (Low) to 5 (Ov	verloaded):	1				
	Total Fung	al Raw Count:	50				
Analyt	ical Sensitivity (Spore/C	Subic Meter):	42				
Total E	NUMD	er of Traverses:	12				
Reporting Note	es: N/A = ND = N	Not Applicable None Detected	2105				
	* = Ty	pe detected obse	rved in clum	ips			
Analyzed by: Analyzed Date	Steven Grevelis : 8/31/2020					Page 8 d	of 12

EnviroComp	H2O EnviroComp Indoor Air Quality Report Air Sample Report			24 West Der Phone	24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289		
Company:	MAC Services	, LLC Inspecte	or: Joseph Coone	ey Date Sampled:	8/20/2020		
Contact:	Joseph Coone	ey Project	Name: Chace Eleme School; Bever Somerset MA	ntary Date Received: 'ly St;	8/24/2020		
Address:	21 Mill Pond D	Project	Notes: Project Numb 211	er: 2020- Date Analyzed:	8/31/2020		
City, ST, Zip:	Rochester, MA	02770 Lab No:	03537	Date Reported:	8/31/2020		
Phone:	508-789-0983			Report Status:	Version 1		
		Mold le	dentification by Samp	les			
Sample N Client Sample Magnification	umber: • ID: •:	03537-09 4112121 600 X	Samp Sam	ole Medium: Allergen וpling Rate: 15L/Min for Fotal Liters: 75	co-D 5 Minutes		

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	1	42	Smuts	ND	ND
Basidiospores, Non-specified	4	168	Rusts	ND	ND
Aspergillus/Penicillium-Like	15	632	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Commen	its:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	20			
Analytical Sensitivity (Spore/C	ubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cu	ubic Meter):	842			
Reporting Notes: N/A = I ND = N	Not Applicable Ione Detected				

 \star = Type detected observed in clumps

Analyzed by: Steven Grevelis Analyzed Date: 8/31/2020 Library in Center

Location:

EnviroComp	H2O EnviroComp Indoor Air Quality Report Air Sample Report			24 School Stree P.O. Box 44 West Dennis, MA 0267 Phone 508.737.428		
Company:	MAC Services,	LLC Inspector:	Joseph Cooney	Date Sampled:	8/20/2020	
Contact:	Joseph Cooney	Project Name	Chace Elementary School; Beverly St; Somerset, MA	Date Received:	8/24/2020	
Address:	21 Mill Pond Dri	ve Project Notes	Project Number: 2020- 211	Date Analyzed:	8/31/2020	
City, ST, Zip:	Rochester, MA	02770 Lab No:	03537	Date Reported:	8/31/2020	
Phone:	508-789-0983			Report Status:	Version 1	
		Mold Identif	ication by Samples			
Sample N Client Sample Magnification	umber: 0 BID: 2	03537-10 4112125 500 X	Sample Mediur Sampling Rat Total Liter	n: Allergenc e: 15L/Min for s: 75	o-D 5 Minutes	

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	ND	ND	Smuts	ND	ND
Basidiospores, Non-specified	1	42	Rusts	ND	ND
Aspergillus/Penicillium-Like	12	505	Spegazzinia	ND	ND
Cladosporium	ND	ND	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Com	ments:	
Skin Fragment Prevalence; 1 (Low) to 4 (High):	1			
Background Density; 1 (Low) to 5 (Overloaded):	1			
Total Fu	ngal Raw Count:	13			
Analytical Sensitivity (Spor	e/Cubic Meter):	42			
Nur	ber of Traverses:	12			
Total Fungal Count (Spore	/Cubic Meter):	547			
Reporting Notes: N/A	= Not Applicable				
ND	= None Detected				

 \star = Type detected observed in clumps

Teachers Lounge under

Stained Ceiling Tile

Location:

EnviroComp		H2O EnviroComp Indoor Air Quality Report Air Sample Report			24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289		
Company:	MAC Services	, LLC Insp	ector:	Joseph Cooney	Date Sampled:	8/20/2020	
Contact:	Joseph Coone	y Proj	ect Name:	Chace Elementary School; Beverly St; Somerset MA	Date Received:	8/24/2020	
Address:	21 Mill Pond D	Prive Proj	ect Notes:	Project Number: 2020- 211	Date Analyzed:	8/31/2020	
City, ST, Zip:	Rochester, MA	02770 Lab	No:	03537	Date Reported:	8/31/2020	
Phone:	508-789-0983				Report Status:	Version 1	
		Мо	old Identifica	ation by Samples			
Sample N Client Sample Magnification	umber: • ID: •:	03537-1 4112131 600 X	1	Sample Medium Sampling Rate Total Liters	: Allergenc : 15L/Min for : : 75	o-D 5 Minutes	

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	3	126	Smuts	ND	ND
Basidiospores, Non-specified	12	505	Rusts	ND	ND
Aspergillus/Penicillium-Like	2	84	Spegazzinia	ND	ND
Cladosporium	4	168	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Comme	ents:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1			
Total Funga	al Raw Count:	21			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cu	ubic Meter):	884			
Reporting Notes: N/A = I	Not Applicable				
ND = N	Ione Detected				

 \star = Type detected observed in clumps

Location: Room 25 Next to Exterior

Door

EnviroComp	H2O EnviroComp Indoor Air Quality Report Air Sample Report			omp Report port	24 School Street P.O. Box 444 West Dennis, MA 02670 Phone 508.737.4289		
Company:	MAC Services	, LLC Inspec	ctor: Josep	h Cooney	Date Sampled:	8/20/2020	
Contact:	Joseph Coone	ey Projec	t Name: Chace Schoo Some	e Elementary bl; Beverly St; rset MA	Date Received:	8/24/2020	
Address:	21 Mill Pond D	Prive Projec	t Notes: Project 211	t Number: 2020-	Date Analyzed:	8/31/2020	
City, ST, Zip:	Rochester, MA	02770 Lab No	o: 03537	,	Date Reported:	8/31/2020	
Phone:	508-789-0983				Report Status:	Version 1	
		Mold	Identification b	y Samples			
Sample N Client Sample Magnification	umber: • ID: •:	03537-12 4112132 600 X		Sample Medium: Sampling Rate: Total Liters:	Allergenc 15L/Min for 75	:o-D 5 Minutes	

		Count/			Count/
		Cubic		Raw	Cubic
Туре:	Raw Count	Meter	Туре:	Count	Meter
Ascospores, Non-specified	3	126	Smuts	ND	ND
Basidiospores, Non-specified	8	337	Rusts	ND	ND
Aspergillus/Penicillium-Like	69	2905	Spegazzinia	ND	ND
Cladosporium	40	1684	Stachybotrys	ND	ND
Chaetomium	ND	ND	Ulocladium	ND	ND
Ganoderma	ND	ND	Nigrospora	ND	ND
Pithomyces	ND	ND	Un-ID Spore	ND	ND
Alternaria	ND	ND	Pollen	ND	ND
Cercospora-like	ND	ND	Hyphal Frags	ND	ND
Curvularia	ND	ND	Insect Frags	ND	ND
Epicoccum	ND	ND			
Oidium	ND	ND			
			Sample Data Comm	ents:	
Skin Fragment Prevalence; 1 (Low) to	o 4 (High):	1			
Background Density; 1 (Low) to 5 (Ov	erloaded):	1]		
Total Funga	al Raw Count:	120			
Analytical Sensitivity (Spore/C	Cubic Meter):	42			
Numbe	er of Traverses:	12			
Total Fungal Count (Spore/Cu	ubic Meter):	5053			
Reporting Notes: N/A = I ND = N	Not Applicable Jone Detected				

 \star = Type detected observed in clumps

Location: Room 24 Next to Exterior

Door

EnviroComp	H2O EnviroCor 24 School Stre P.O. Box 444 West Dennis, MA (mp et 4_ 02670			,	Microk	vial Chain of Custo Version 1.0 4/9/2012	
Client: MAC Servic	lient Address:	s: 21 Mill Pond Drive Rochester, MA						
Project Name: C	chace Elementary School	Project N	umber:20	20.211	,			
Proj. Address:	Beverly Sd- Tow	n: Somerse	t	{	State: MA	Zip Code		
Sampled By: Joseph Cooney Email Addr Date: 8-20-20 Project Manager: Joseph Cooney Email 1: jco		mail Address	e (es) to Se ey@macm	nd Repoi oldandmo	H2O Lab ID: 03537			
Turn Around Time.		Sample Volume Data			ata			
SAMPLE ID	LOCATION		Type (Air, Tape Lift, Bulk)	Rate (I/mln)	Time (min)	Volume	Sample Media (Air-O- Cell, Allergenco-D, etc)	
4/12124	Outdown @ front of building		Air	15	5	75	Allergenco-D	
412134	Zenter of Katchen		Air	15	5	75	Allergenco-D	
4112129	Catetorium on stage	1	Air	15	5	75	Allergenco-D	
4/12/33	BAthroom off Kitchen		Air	15	5	75	Allergenco-D	
41/2123	Reven 12 vext to sink		Air	15	5	75	Allergenco-D	
4/12/22	Room 7 next to sim	С.	Air	15	5	75	Allergenco-D	
4112/20	Room 18 next to sink		Air	15	5	75	Allergenco-D	
4/12/28	Birls Bathroom noxt to main closed on mohanic hall way	Chance	Air	15	5	75	Allergenco-D	
4112121	Library in center.		Air	15	5	75	Allergenco-D	
4112125	Teachers Lounge under striv	ned lo	Air	15	5	75	Allergenco-D	
Relinquished by:J	Diseph Cooney	te/Time:				Page	1 of 17	
Received by:	un Anti VI	te/Time: <u>8/2</u> 4	<u>4/2020 V</u>	/IA PIO	<u>CKU</u> P			

EnviroComp	H2O Enviro 24 School P.O. Box West Dennis,	oComp Street 444 MA 02670				Micro	bial Chain of Custody Version 1.0 4/9/2012
Client: MAC Servio	ces, LLC Phone:508-789-0983 (Client Addres	e 21 Mill Pr	ond Drive	Roch	ester MA	
Project Name: Chace Elementary Court Project Number 2020 211							
Proj. Address:	Beverly Stall	Town: Somers	et		State: MA	A_Zip Code	-
Sampled By: Josep Date: 8-20-	Bampled By: Joseph Cooney Email Address(es) to Send Report to: Date: 8-20-20 Project Manager: Joseph Cooney Email 1: jcooney@macmoldandmore.com					H2O Lab ID:	
Turn Around Time: I	Rush 24 Hour 48 Hour 3 Day 5 Day	Email 2: 03537					
			Sample Type	Volume Data			
SAMPLE ID	LOCATION		(Air, Tape Lift, Bulk)	Rate (I/min)	Time (min)	Volume	Cell, Allergenco-D, etc)
4112131	1600m 25 next to exter	Tur door	Air	15	5	75	Allergenco-D
4(12) 32	Room 24 head to exterior d	1001r	Air	15	5	75	Allergenco-D
			Air	15	5	75	Allergenco-D
			Air	15	5	75	Allergenco-D
			Air	15	5	75	Allergenco-D
			Air	15	5	75	Allergenco-D
			Air	15	5	75	Allergenco-D
			Air	15	5	75	Allergenco-D
	-		Air	15	5	75	Allergenco-D
	KN		Air	15	5	75	Allergenco-D
Relinquished by:	seph Cooney	Date/Time:	4/2020 1			Page	RofZ
	m Awn	Date/Time: <u>8/2</u>	4/2020 N	/IA PI	JKUP		

_____Date/Time;_0/24/20



H2O EnviroComp Fungal Glossary

Note: The following list is not inclusive of all molds and fungi.

Absidia: Found outdoors in soil and decaying vegetation. Found indoors in stored grains and other foods. Absidia is recognized as an allergen. In immunocompromised patients pulmonary invasions, the meninges (brain or spinal cord), and kidney infections can result from exposure.

Acremonium: Found outdoors in decaying or dead plant materials. Found indoors in food and wet, cellulose based building materials. Grows well indoors when there is a high water content (>0.90 Aw). Type I (hat fever, asthma) and Type III (hypersensitivity pneumonitis) allergen. Known to cause infections in immunodeficient patients and persons with wound injuries. There are 100 known species.

Alternaria: Common saprobe and pathogen of plants. Typically found on plant tissue, decaying wood, and foods, soil and air outdoors. Indoors it is found near condensation (window frames, showers), house dust (in carpets, and air). It also colonizes building supplies, computer disks, cosmetics, leather, optical instruments, paper, sewage, stone monuments, textiles, wood pulp, and jet fuel. Type I allergies (hay fever, asthma) and Type III (hypersensitivity pneumonitis). Alternaria spores are one of the most common and potent indoor and outdoor airborne allergens. Additionally, Alternaria sensitization has been determined to be one of the most important factors in the onset of childhood asthma. Synergy with Cladosporium or Ulocladium may increase the severity of symptoms.

Arthrinium: Found outdoors in decaying plant material and soil. Found indoors on cellulose containing materials. *Arthrinium sphaerospermum* is recognized as an allergen.

Ascospores: Ascospores are found everywhere in nature. Ascospores are the result of sexual reproduction and produced in a saclike structure called an ascus. All ascospores belong to members of the Phylum Ascomycota, which encompasses a plethora of genera worldwide.

Asperigillus/Penicillium: These species are common contaminants on various substances. This organism causes food spoilage and is an indicated organism for dampness indoors. Some of these species are known to produce mycotoxins. If health effects are noticed by occupants or workers, in an environment that evidences an amplification of Penicillium, identification of species is helpful. These especially opportunistic pathogens may cause respiratory infections. Some varieties produce mycotoxins and aflatoxins.

Basidiospores: Found outdoors in gardens forests and woodlands. Plant pathogen. Indoors it is the agent of "dry rot" and other fungi causing white and brown wood rot. Grow and destroy the structural wood of buildings. Poria incrassata causes a particularly destructive dry rot in buildings. A probably common allergen. Type I allergies (hay fever, asthma).

Bipolaris: Found outdoors in plant debris and soil. Found indoors on houseplants and indoor building materials. Type I allergies (hay fever, asthma). Most commonly reported cause of allergic and chronic invasive sinusitis.

Botrytis: Plant pathogen responsible for causing gray mold (*B. cincera*) on grapes, strawberries, raspberries, blackberries, low bush blueberries, lettuce, cabbage and onion. Indoors it is found on houseplants fruits and vegetables. Type I (hay fever, asthma) and type III (hypersensitivity) allergies.



mp H2O EnviroComp Fungal Glossary

Candida: Found in leaves, flowers, soil, water and is an inhabitant of the skin, mouth and vagina. It is unknown what suitable substrates are in the indoor environment. Has been reported as an allergen. Occurs in patients taking drugs such as oral contraceptives and antibiotics.

Cercospora: Found outdoors on plants. It is a plant parasite causing leaf spot. It is unknown what substrates it prefers indoors. Thrives in moderate to high humidity its allergenic potential is unknown.

Chaetomium: Found outdoors in soil, seeds, dung, woody and straw materials. Indoors found on damp sheet rock paper. Type I allergies (hay fever, asthma).

Coprinus: Found outdoors in wood, dung, litter and soil. Industrial uses: Popular experimental organism in genetic research

Cladosporium: Found outdoors in soil of many different types. Indoors it is found on many substrates including textiles, wood, and moist windowsills. Cladosporium grows at 0degrees C, and so is associated with refrigerated foods. It is a common and important allergen. Type I allergies (hay fever, asthma).

Cladophialophora (form of Cladosporium): Phialophora: Found outdoors in wood roots, stems and leaves of plants and grasses, and soil. It is a water loving fungus. Allergenicity has not been studied.

Coprinus: Found outdoors in wood, dung, litter and soil. Industrial uses: Popular experimental organism in genetic research

Curvularia: found outdoors in plant saprobe and pathogen to cereal plants and soil. Found indoors in paper and wood products. Type I allergies (asthma and hay fever) A relatively common cause of allergic fungal sinusitis.

Dactylaria: Found outdoors in decaying soil and leaves. Dactylaria species comprise a very small proportion of the fungal biota. There have been several reports of opportunistic infections caused by these genera but a true pathogenic role has not been firmly established. No information is available regarding upper respiratory health effects, or toxicity. Allergenicity has not been studied.

Epicoccum: Found outdoors in plant debris and soil. Found indoors in paper and textiles. Type I allergies (asthma and hay fever).

Fusarium: Found outdoors in soil. Occasionally found on a variety of substrates. Fusarium requires very wet conditions. Aw=0.86-0.91 (minimum for various species). . Type I allergies (asthma and hay fever).

Gandomera: Found outdoors on conifers and hardwoods worldwide, causing white rot, root rot, and stem rot. Ganoderma species are known to cause allergies in people on a worldwide scale.

Memnoniella: Found outdoors in plant litter soil and many types of plants and trees. Found indoors on a variety of substrates (cellulolytic). Allergens are unknown. Very closely related to Stachybotrys.

Myxomycetes: Found outdoors in decaying logs and stumps, particularly in forested areas. Only found occasionally indoors. Type I allergies (hay fever, asthma)



•Comp H2O EnviroComp Fungal Glossary

Nigrospora: Found outdoors in decaying plants and soil. Rarely found indoors. Type I allergies (asthma and hay fever).

Pithomyces: Found outdoors in bark, leaf litter and soils. Indoors it is found in paper and requires high levels of moisture for spore germination. Its allergenic potential is unknown.

Rust: Rusts are parasitic to many types of plants. Rust fungi require a living plant host for growth. Type I allergens (hay fever, asthma). There are 5000 known species of rusts belonging to at least 150 different genera. Rusts are the cause of great economic losses on many cultivated plants.

Scopulariopsis (Hyphomycetes) Teleomorph: *Microascus* (Ascomycetes) Mainly soil-borne, but also frequently isolated from wood, grain, fruit, paper, and food such as meat and dairy products. Also isolated from indoor environments. *Most species can liberate arsenic gaseous compounds that can lead to arsenic poisoning. Has recently been associated with invasive human infections.*

Spegazzinia: Found outdoors in plants and soil. It is unknown what substrates it is found on indoors. Allergenic properties are unknown.

Stachybotrys: Stachybotrys: Stachybotrys grows on wet materials that contain cellulose and low nitrogen content. Usually but not limited to building materials such as wallboard paper (unfinished drywall) that has a high water activity over a long period of time. It produces several types of toxic metabolites and mycotoxins that can irritate skin and mucous membranes. One of the mycotoxins it produces called satratoxin is also toxic when inhaled. *Extreme care should be taken when this organism is amplified indoors*. Individuals with chronic exposure to the toxin produced by this fungus reported cold and flu symptoms, sore throat, diarrhea, headaches, fatigue, dermatitis, intermittent local hair loss, and generalized malaise. The toxins produced by this fungus will suppress the immune system affecting the lymphoid tissue and the bone marrow.

Stemphylium: Found outdoors in soil, wood, decaying vegetation. Some species found on leaves are plant pathogens. Indoors growth is rare. Known allergen. Shares allergens with Alternaria. Type I allergies (hay fever, asthma).

Trichoderma: Found outdoors in soil, wood, decaying vegetation. Some species found on leaves are plant pathogens. Indoors growth on paper, textiles, and wet wood. Known allergen. Type I allergies (hay fever, asthma), Type III allergies (hypersensitivity), and has occasionally been associated with disease in immunocompromised individuals.

Torula: Found outdoors in leaves, plant roots, plant litter, soil and wood. Indoors it is found in paper, wicker furniture and wood. Type I allergies (hay fever, asthma).

Ulocladium: Found outdoors in soil, dung paint, grasses, fibers, wood, decaying plant material, paper and textiles. Indoors it is found in gypsum board, paper, paint, tapestries, jute and other straw materials. Ulocladium has a high water requirement. As an allergen it is major with type I allergies (hay fever, asthma) and it cross reacts with Alternaria, adding to the burden of Alternaria –sensitive patients.

Wallemia: Found outdoors in hay and soil. Found indoors in jams, salted fish, mattresses, textiles and wood in crawl spaces. It is a Type I (hay fever and asthma) allergen.

Zygomycetes: Found outdoors in decaying plant and animal matter. Found indoors in fruits and vegetables. It is a Type1 (hay fever, asthma) and Type III (hypersensitivity) allergen. Many zygomycetes are extremely fast growing and can inhibit other fungi when competing for food and space.