eurofins | Built Environment Testing

Report for:

Brad Roberts
Berks Fire Water Restoration
1145 Commons Blvd
Reading, PA 19605

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: Schuylkill Valley School District - 2; Pre Clean IAQ testing
EML ID: 3390719

Approved by:

Technical Manager
Ariunaa Jalsrai

Dates of Analysis:
Spore trap analysis: 09-19-2023

Service SOPs: Spore trap analysis (EB-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #103005

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Information supplied by the client which can affect the validity of results: sample air volume.

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Eurofins EPK Built Environment Testing, LLC
3000 Lincoln Drive East, Suite A, Marlton, NJ 08053
(866) 871-1984 www.eurofinsus.com/Built

Client: Berks Fire Water Restoration
C/O: Brad Roberts
Re: Schuylkill Valley School District - 2; Pre Clean IAQ testing

Date of Sampling: 09-16-2023
Date of Receipt: 09-19-2023
Date of Report: 09-19-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3631 6806: A 141 Affected			3631 6810: A 136 Affected		
Comments (see below)	None			A		
Lab ID-Version‡:	16489350-1			16489351-1		
Analysis Date:	09/19/2023			09/19/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Alternaria						
Ascospores	1	25	53	2	25	110
Basidiospores	6	25	320	9	25	480
Chaetomium						
Cladosporium				5	25	270
Curvularia				1	100	13
Epicoccum						
Fusarium						
Ganoderma						
Myrothecium						
Nigrospora				1	100	13
Other colorless						
Penicillium/Aspergillus types†				28/23	25/100	1,800
Pithomyces				4	100	53
Rusts				1	100	13
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+			2+		
Hyphal fragments/m3	< 13			13		
Pollen/m3	< 13			27		
Skin cells (1-4+)	1+			1+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			370			2,700

Comments: A) 23 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m^3 divided by the raw count, expressed in spores/m^3, per spore and per sample.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Date of Sampling: 09-16-2023
Date of Receipt: 09-19-2023
Date of Report: 09-19-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3631 6760: Main Lobby Unaffected			3631 6798: Loading Dock Outside		
Comments (see below)	None			None		
Lab ID-Version‡:	16489352-1			16489353-1		
Analysis Date:	09/19/2023			09/19/2023		
	raw ct.	% read	spores/m3	raw ct.	% read	spores/m3
Alternaria				5	100	67
Ascospores	1	25	53	16	25	850
Basidiospores	7	25	370	70	25	3,700
Chaetomium						
Cladosporium	2	25	110	16	25	850
Curvularia						
Epicoccum				5	100	67
Fusarium						
Ganoderma				3	25	160
Myrothecium						
Nigrospora				2	100	27
Other colorless						
Penicillium/Aspergillus types†	1	25	53			
Pithomyces				3	100	40
Rusts				2	100	27
Smuts, Periconia, Myxomycetes				5	100	67
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+			2+		
Hyphal fragments/m3	< 13			13		
Pollen/m3	< 13			150		
Skin cells (1-4+)	1+			2+		
Sample volume (liters)	75			75		
§ TOTAL SPORES/m3			590			5,900

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

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EML ID: 3390719

Approved by:

Technical Manager
Ariunaa Jalsrai

Dates of Analysis:
Spore trap analysis: 09-19-2023

Service SOPs: Spore trap analysis (EB-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #103005

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Date of Receipt: 09-19-2023
Date of Report: 09-19-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	3631 6806: A 141 Affected		3631 6810: A 136 Affected		3631 6760: Main Lobby Unaffected		3631 6798: Loading Dock Outside	
Comments (see below)	None		A		None		None	
Lab ID-Version‡:	16489350-1		16489351-1		16489352-1		16489353-1	
Analysis Date:	09/19/2023		09/19/2023		09/19/2023		09/19/2023	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria							5	67
Ascospores	1	53	2	110	1	53	16	850
Basidiospores	6	320	9	480	7	370	70	3,700
Chaetomium								
Cladosporium			5	270	2	110	16	850
Curvularia			1	13				
Epicoccum							5	67
Fusarium								
Ganoderma							3	160
Myrothecium								
Nigrospora			1	13			2	27
Other colorless								
Penicillium/Aspergillus types†			51	1,800	1	53		
Pithomyces			4	53			3	40
Rusts			1	13			2	27
Smuts, Periconia, Myxomycetes							5	67
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	< 13		13		< 13		13	
Pollen/m3	< 13		27		< 13		150	
Skin cells (1-4+)	1+		1+		1+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		370		2,700		590		5,900

Comments: A) 23 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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Re: Schuylkill Valley School District - 2; Pre Clean IAQ testing

Date of Sampling: 09-16-2023
Date of Receipt: 09-19-2023
Date of Report: 09-19-2023

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 3631 6798, Loading Dock Outside

Fungi Identified	Outdoor data	Typical Outdoor Data for: September in Pennsylvania† (n‡=3342)						Typical Outdoor Data for: The entire year in Pennsylvania† (n‡=29386)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	67	13	17	50	110	190	69	10	13	40	93	160	44
Bipolaris/Drechslera group	-	7	7	13	40	53	19	7	7	13	33	53	10
Chaetomium	-	7	7	13	13	27	3	7	7	13	27	40	3
Cladosporium	850	220	430	1,200	3,200	5,800	96	53	130	590	2,000	3,600	84
Curvularia	-	7	13	27	59	130	41	7	8	17	53	84	16
Epicoccum	67	7	13	27	80	130	55	7	13	27	67	110	39
Ganoderma	160	44	53	130	270	400	27	27	53	110	210	320	11
Nigrospora	27	7	13	27	53	110	37	7	7	13	44	67	17
Penicillium/Aspergillus types	-	53	110	290	800	1,300	55	53	53	210	590	1,000	49
Pithomyces	40	11	13	40	110	210	63	7	13	27	80	160	27
Stachybotrys	-	7	7	13	33	100	< 1	7	7	13	45	170	< 1
Torula	-	7	13	27	53	87	14	7	11	13	47	67	7
Seldom found growing indoors**													
Ascospores	850	160	320	910	2,300	3,800	98	53	130	610	2,000	3,400	81
Basidiospores	3,700	990	1,900	5,300	14,000	23,000	> 99	110	250	1,900	7,900	15,000	96
Rusts	27	7	13	27	80	150	47	7	13	27	53	110	21
Smuts, Periconia, Myxomycetes	67	13	27	53	120	210	79	13	13	40	110	200	62
§ TOTAL SPORES/m3	5,900												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Eurofins EMLab P&K may not have received and tested a representative number of samples for every region or time period. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Re: Schuylkill Valley School District - 2; Pre Clean IAQ testing

Date of Sampling: 09-16-2023
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MoldSCORE™: Spore Trap Report

Outdoor Sample: 3631 6798 Loading Dock Outside

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		5	67
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		16	850
Curvularia		ND	< 13
Epicoccum		5	67
Ganoderma		3	160
Nigrospora		2	27
Penicillium/Aspergillus types†		ND	< 13
Pithomyces		3	40
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		16	850
Basidiospores		70	3,700
Rusts		2	27
Smuts, Periconia, Myxomycetes		5	67
Total			**5,893**

Location: 3631 6806 A 141 Affected

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		6	320		109
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**373**	**Final MoldSCORE**	**109**

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MoldSCORE™: Spore Trap Report

Location: 3631 6810 A 136 Affected

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		5	270		100
Curvularia		1	13		105
Nigrospora		1	13		100
Penicillium/Aspergillus types†		51	1,800		286
Pithomyces		4	53		114
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		2	110		100
Basidiospores		9	480		100
Rusts		1	13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**2,747**	**Final MoldSCORE**	**286**

Location: 3631 6760 Main Lobby Unaffected

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		2	110		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		108
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		100
Basidiospores		7	370		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**587**	**Final MoldSCORE**	**108**

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†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

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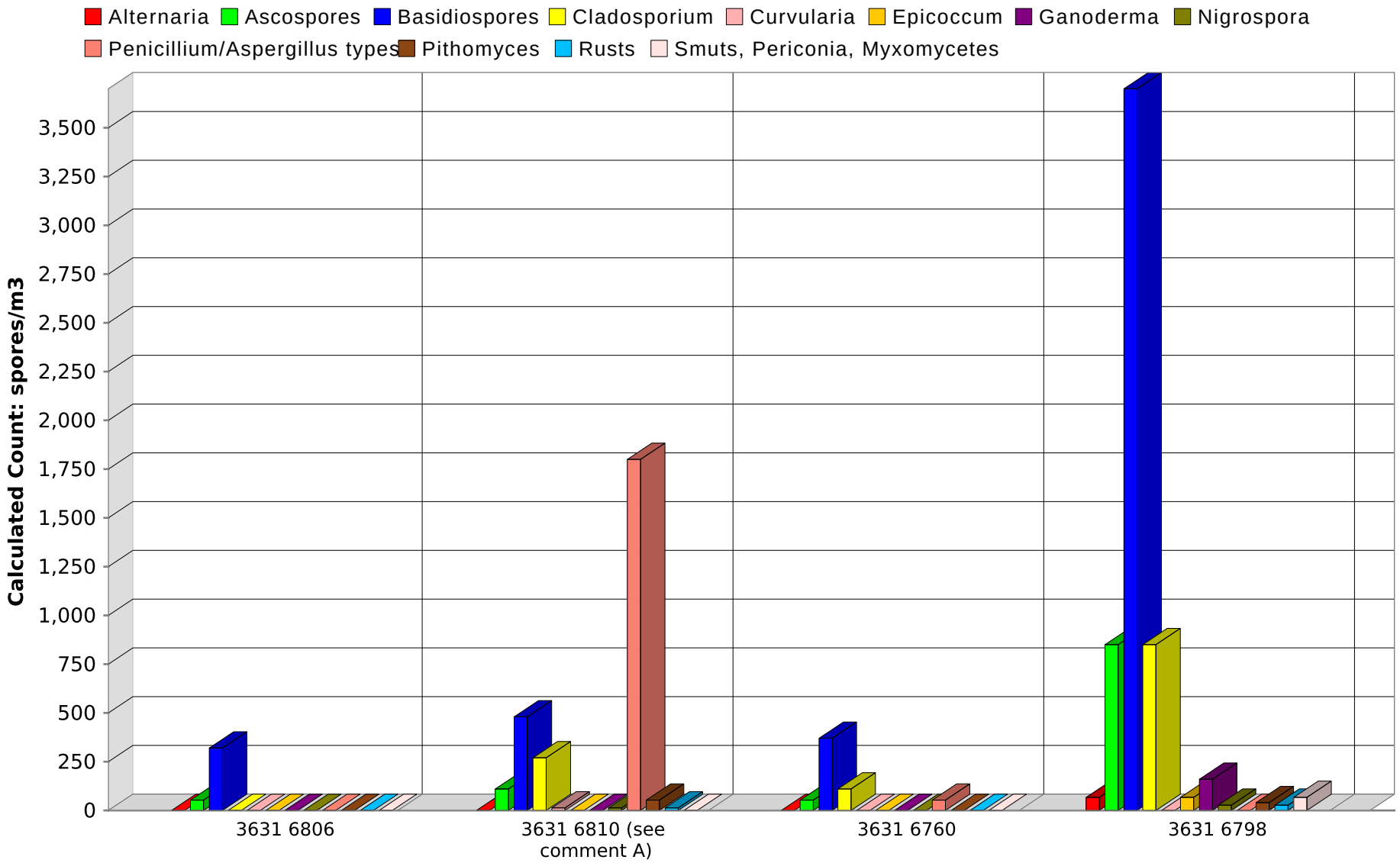
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments: A) 23 of the raw count *Penicillium/Aspergillus* type spores were present as a single clump.

Note: Graphical output may understate the importance of certain "marker" genera.