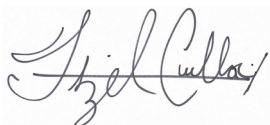Report for:

Lab Assistant
Ideal Environmental Engineering, Inc.
2904 Tractor Lane
Bloomington, IL 61704

Regarding: Eurofins Built Environment Testing Central, LLC
Project: 26719 Beecher CUSD 200U; Beecher Elem School
EML ID: 4188708

Approved by:

Business Unit Manager
Itzel Cuellar

Dates of Analysis:
Spore trap analysis: 08-15-2025

Service SOPs: Spore trap analysis (EB-MY-S-1038)
AIHA LAP, LLC accredited service, Lab ID #176641

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.

Eurofins Built Environment Testing Central, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem
School

Date of Sampling: 08-13-2025
Date of Receipt: 08-15-2025
Date of Report: 08-15-2025

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	ZZB: OUTSIDE		1B: 2ND GRADE 6		2B: 2ND GRADE 4		3B: HALL BY RM 3	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	20931115-1		20931116-1		20931117-1		20931118-1	
Analysis Date:	08/15/2025		08/15/2025		08/15/2025		08/15/2025	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	24	160						
Ascospores	8	210						
Basidiospores	19	510						
Botrytis								
Chaetomium								
Cladosporium	34	910						
Curvularia								
Epicoccum	1	7						
Fusarium								
Myrothecium								
Nigrospora								
Other colorless								
Penicillium/Aspergillus types†			17	450	8	210	3	80
Pithomyces								
Rusts	1	7						
Smuts, Periconia, Myxomycetes	1	7						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)	3+		2+		1+		1+	
Hyphal fragments/m3	33		< 7		< 7		< 7	
Pollen/m3	13		< 7		< 7		< 7	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	150		150		150		150	
§ TOTAL SPORES/m3		1,800		450		210		80

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.

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.

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem
School

Date of Sampling: 08-13-2025
Date of Receipt: 08-15-2025
Date of Report: 08-15-2025

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	4B: BASEMENT OFFICE		5B: 1ST GRADE 2		6B: 1ST GRADE 1	
Comments (see below)	None		None		None	
Lab ID-Version‡:	20931119-1		20931120-1		20931121-1	
Analysis Date:	08/15/2025		08/15/2025		08/15/2025	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores	1	27				
Botrytis						
Chaetomium						
Cladosporium			1	27		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	1	27	5	130	133	3,500
Pithomyces					1	7
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)	1+		2+		3+	
Hyphal fragments/m3	< 7		< 7		< 7	
Pollen/m3	< 7		< 7		< 7	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	150		150		150	
§ TOTAL SPORES/m3		53		160		3,600

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

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem
School

Date of Sampling: 08-13-2025
Date of Receipt: 08-15-2025
Date of Report: 08-15-2025

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst

Analyst: Jonathan Anthony

‡ 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".

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem School

Date of Sampling: 08-13-2025
Date of Receipt: 08-15-2025
Date of Report: 08-15-2025

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: ZZB, OUTSIDE

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in Illinois† (n‡=6602)						Typical Outdoor Data for: The entire year in Illinois† (n‡=53410)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	160	13	27	80	230	390	79	13	13	53	170	320	53
Bipolaris/Drechslera group	-	7	7	13	27	53	12	7	7	13	27	53	8
Chaetomium	-	7	7	13	27	61	3	7	7	13	27	67	4
Cladosporium	910	240	500	1,700	4,500	7,700	96	53	110	640	2,700	4,900	86
Curvularia	-	7	10	13	53	87	24	7	7	13	40	80	10
Epicoccum	7	13	13	27	73	120	53	10	13	27	110	200	41
Nigrospora	-	7	13	20	53	93	31	7	13	20	53	110	19
Penicillium/Aspergillus types	-	53	76	200	590	1,100	45	27	53	110	370	690	41
Pithomyces	-	13	13	33	110	230	59	7	13	27	75	160	24
Stachybotrys	-	7	7	13	43	130	2	7	7	13	53	130	2
Torula	-	7	7	13	41	80	12	7	7	13	47	80	6
Seldom found growing indoors**													
Ascospores	210	160	270	770	2,100	3,400	96	53	110	430	1,600	2,900	76
Basidiospores	510	330	660	2,100	5,800	9,600	98	53	160	850	3,400	6,200	86
Rusts	7	13	13	40	110	220	54	7	13	29	110	200	28
Smuts, Periconia, Myxomycetes	7	13	13	33	93	160	55	13	13	40	120	220	50
§ TOTAL SPORES/m3	1,800												

†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 Built Environment Testing 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 Built Environment Testing may not have received and tested a representative number of samples for every region or time period. Eurofins Built Environment Testing 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.

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem
School

Date of Sampling: 08-13-2025
Date of Receipt: 08-15-2025
Date of Report: 08-15-2025

MoldRANGE™: Extended Outdoor Comparison

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst

Analyst: Jonathan Anthony

‡ 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".

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem
School

Date of Sampling: 08-13-2025
Date of Receipt: 08-15-2025
Date of Report: 08-15-2025

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: ZZB: OUTSIDE

Species detected	Outdoor sample spores/m3		Typical outdoor ranges (North America)			Freq. %
	<100 1K 10K >100K					
Alternaria	▇	160	7 -	27	- 370	40
Ascospores	▇	210	13 -	210	- 5,200	73
Basidiospores	▇▇▇	510	13 -	370	- 22,000	88
Cladosporium	▇▇▇▇	910	27 -	440	- 7,800	88
Epicoccum	▇	7	7 -	22	- 280	19
Penicillium/Aspergillus types		< 7	13 -	190	- 2,600	59
Rusts	▇	7	7 -	22	- 320	15
Smuts, Periconia, Myxomycetes	▇	7	7 -	53	- 690	61
Total	▇▇▇▇▇	1,800				

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 1B: 2ND GRADE 6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 24%	dF: 5 Result: 2.0000 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0238 Critical value: 0.6190 Outside Similar: No	Score: 169 Result: Medium

Species Detected	Spores/m3	
	<100 1K 10K >100K	
Penicillium/Aspergillus types	▇▇▇▇	450
Total	▇▇▇▇	450

Location: 2B: 2ND GRADE 4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 11%	dF: 5 Result: 2.0000 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0238 Critical value: 0.6190 Outside Similar: No	Score: 133 Result: Low

Species Detected	Spores/m3	
	<100 1K 10K >100K	
Penicillium/Aspergillus types	▇	210
Total	▇	210

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem
School

Date of Sampling: 08-13-2025
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Date of Report: 08-15-2025

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 3B: HALL BY RM 3

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 5 Result: 2.0000 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 8 Result: 0.0238 Critical value: 0.6190 Outside Similar: No	Score: 113 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Penicillium/Aspergillus types				80
Total				80

Location: 4B: BASEMENT OFFICE

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 5 Result: 2.0000 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.1429 Critical value: 0.6190 Outside Similar: No	Score: 104 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Basidiospores				27
Penicillium/Aspergillus types				27
Total				53

Location: 5B: 1ST GRADE 2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 5 Result: 2.0000 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.1488 Critical value: 0.6190 Outside Similar: No	Score: 121 Result: Low

Species Detected	Spores/m3			
	<100	1K	10K	>100K
Cladosporium				27
Penicillium/Aspergillus types				130
Total				160

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem
School

Date of Sampling: 08-13-2025
Date of Receipt: 08-15-2025
Date of Report: 08-15-2025

MoldSTAT™: Supplementary Statistical Spore Trap Report
Location: 6B: 1ST GRADE 1

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 193%	dF: 5 Result: 2.0000 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: 9 Result: -0.2708 Critical value: 0.5833 Outside Similar: No	Score: 300 Result: High

Species Detected	Spores/m3				Spores/m3 value
	<100	1K	10K	>100K	
Penicillium/Aspergillus types					3,500
Pithomyces					7
Total					3,600

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. Eurofins Built Environment Testingreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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 ranges" are based on the results of the analysis of samples delivered to and analyzed by Eurofins Built Environment Testing Testing 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. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Eurofins Built Environment Testing hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

Client: Ideal Environmental Engineering, Inc.
C/O: Lab Assistant
Re: 26719 Beecher CUSD 200U; Beecher Elem
School

Date of Sampling: 08-13-2025
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Date of Report: 08-15-2025

MoldSTAT™: Supplementary Statistical Spore Trap Report

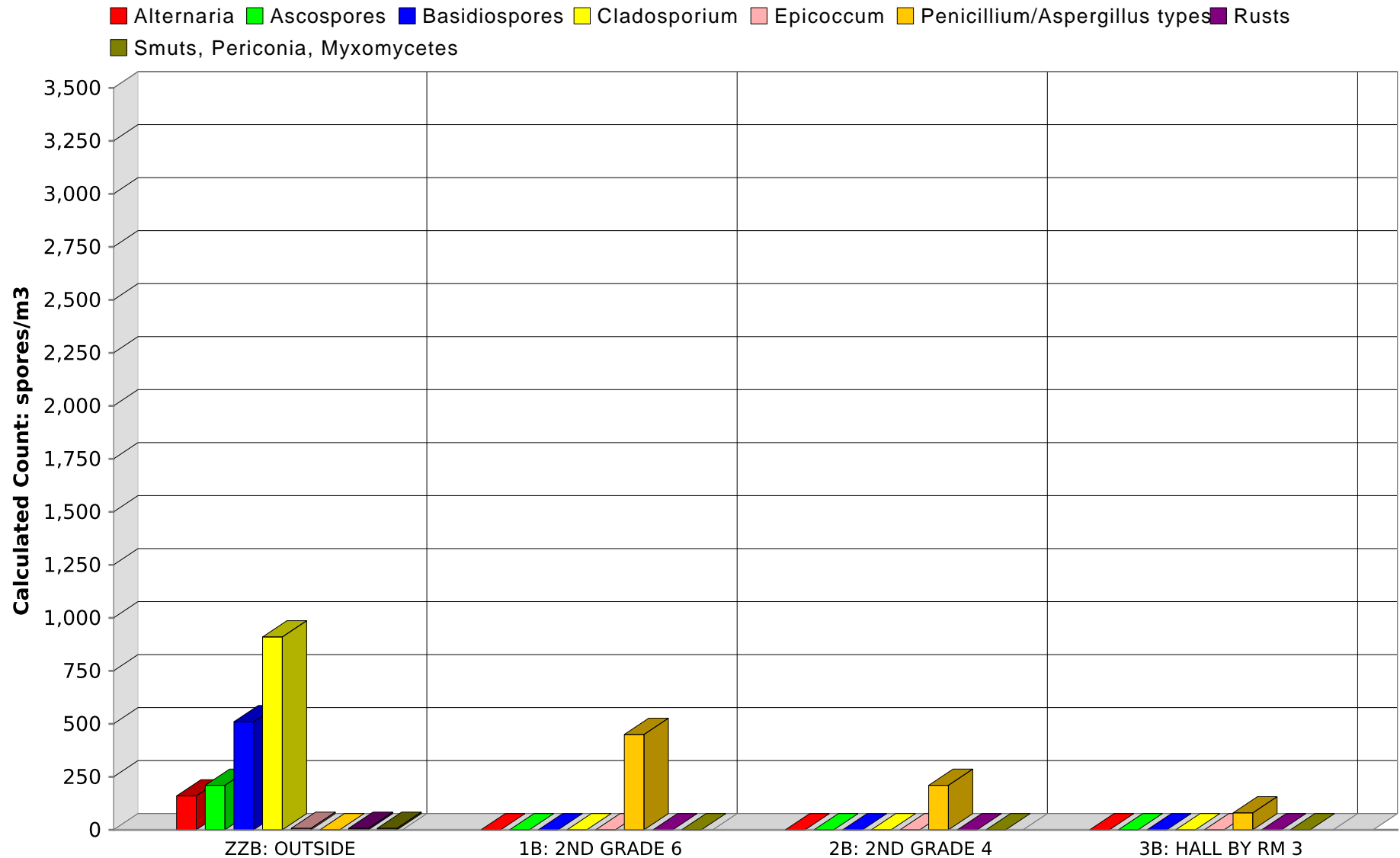**PROJECT ANALYST AND SIGNATORY REPORT**
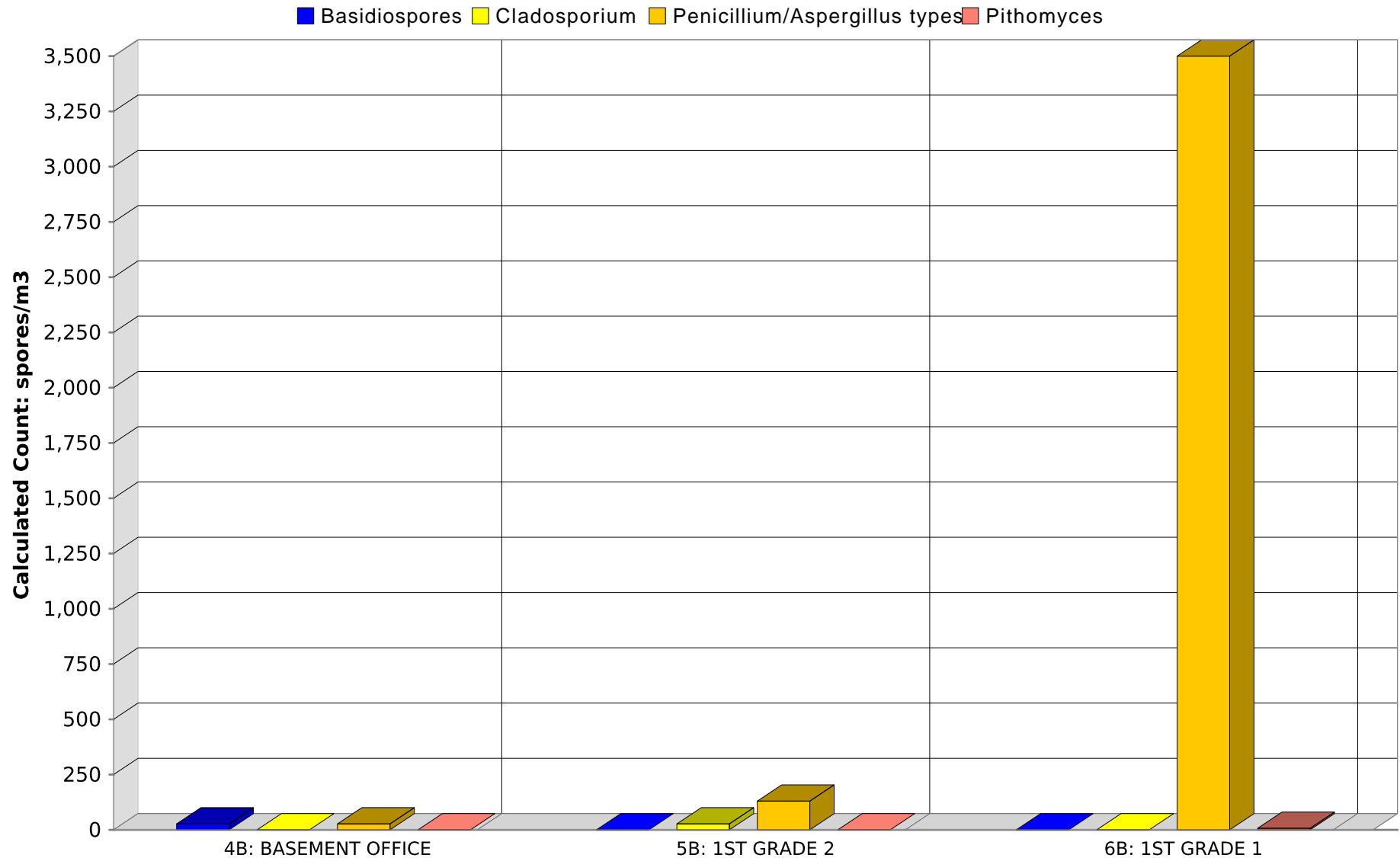
Project Analyst

Analyst: Jonathan Anthony

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SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Legend:
- Alternaria
- Ascospores
- Basidiospores
- Cladosporium
- Epicoccum
- Penicillium/Aspergillus types
- Rusts
- Smuts, Periconia, Myxomycetes

Calculated Count: spores/m3

Categories: ZZB: OUTSIDE, 1B: 2ND GRADE 6, 2B: 2ND GRADE 4, 3B: HALL BY RM 3

Comments:

Note: Graphical output may understate the importance of certain "marker" genera.
Eurofins Built Environment Testing Central, LLC

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

■ Basidiospores □ Cladosporium ■ Penicillium/Aspergillus types ■ Pithomyces

Comments:

Note: Graphical output may understate the importance of certain "marker" genera.
Eurofins Built Environment Testing Central, LLC