



952 School Street #111
Napa, CA 94559
707-205-5706
mmichie@fitenvironmental.com

February 22, 2023

Mr. Jaime Rico
Supervisor, MOT
Cabrillo Unified School District
498 Kelly Avenue
Half Moon Bay, CA 94109

RE: Spores in Air Comparison Sampling at Kings Mountain Elementary School in the Boys Restroom and Occupied Rooms for the Cabrillo Unified School District located at 211 Swett Road, Woodside, California

F.I.T. Job # 23-019

Dear Mr. Rico,

F.I.T. Environmental Services (FIT) is pleased to present this letter report for the reporting of spores in air comparison sampling performed in the boy's restroom and occupied rooms located at Kings Mountain Elementary School 211 Swett Road, Woodside, California.

Overview

On February 20, 2023, FIT mobilized to the above-mentioned site to resample the boy's restroom following the recommendations from the February 16, 2023 report. FIT also perform additional sampling in the occupied rooms with an additional sample collected outdoor for comparison purposes.

Methodology

Airborne mold spore sampling was accomplished by using a spore trap method. Allergenco cassettes were used to collect approximately 75 liters of air at a calibrated flow rate of 15 liters per minute. Allergenco samples provide rapid collection and analysis by microscopic examination and allow identification of fungal spores, plant pollens and other particulates. Airborne particulate is collected by the spore trap cassette and analyzed by the non-viable, direct microscopic examination method. Spores are counted and identified by species type. Results are expressed in spores per cubic meter of air sampled. Samples are collected both inside the building areas to be evaluated and at one or more locations outside the building. The inside building sample results are compared with the outside ambient air result(s) to determine if any elevated levels are present for one or more spore types in the building area of concern.

Typically, in buildings with a filtered HVAC system, interior samples in a normal non-problem building would be anticipated to be 30-80% of the outside levels. Indoor levels that are significantly higher than outdoor levels would suggest an indoor mold contamination source may be present requiring further investigation and possible remedial action.

All samples were sent to Eurofins EMLabs P&K (EMLabs), located in Burlingame, California for analysis under chain of custody procedures. EMLabs specializes in air sample analysis of fungi (mold) and is a successful participant in the American Industrial Hygiene Association (AIHA) EMPAT proficiency program.

Results of Comparison Sampling

The February 20, 2023, samples collected inside the boy's restroom and occupied rooms were reported by the laboratory as follows, spore counts in the front office were 53 total spores per cubic meter of air (spores/m³), spore counts in the staff room were 370 total spores/m³, spore counts in the cafeteria/library (Lion's Den) were 53 total spores/m³, spore counts in classroom 1 (TK/K/1) were 53 total spores/m³, spore counts in classroom 2 (After School) were 53 total spores/m³, spore counts in classroom 3 (Science) were 120 total spores/m³, spore counts in classroom 4 (2/3) were 430 total spores/m³, spore counts in the boy's restroom were 53 total spores/m³, spore counts in classroom 4/5 were 160 total spores/m³. Outside comparison spore counts were 2,400 total spores/m³. The front office sample was 2.2% of the total spores/m³ of the outside sample, staff room sample was 15.4% of the total spores/m³ of the outside sample, cafeteria/library sample was 2.2% of the total spores/m³ of the outside sample, classroom 1 sample was 2.2% of the total spores/m³ of the outside sample, classroom 2 sample was 2.2% of the total spores/m³ of the outside sample, classroom 3 sample was 5% of the total spores/m³ of the outside sample. classroom 4 sample was 17.9% of the total spores/m³ of the outside sample, boy's restroom sample was 2.2% of the total spores/m³ of the outside sample, classroom 4/5 sample was 6.6% of the total spores/m³ of the outside sample. The results are summarized in Table I below.

Table I

Sampling Location and Date	Total Spores/m ³	% of Outdoor
Front Office - 02/20/2023	53	2.2%
Staff Room - 02/20/2023	370	15.4%
Cafeteria/Library - 02/20/2023	53	2.2%
Classroom 1 - 02/20/2023	53	2.2%
Classroom 2 - 02/20/2023	53	2.2%
Classroom 3 - 02/20/2023	120	5%
Classroom 4 - 02/20/2023	430	17.9%
Boy's Restroom - 02/20/2023	53	2.2%
Classroom 4/5 - 02/20/2023	160	6.6%
Outdoors - 02/20/2023	2,400	N/A

Spore Types. Species of molds detected in the atmosphere outside the building included *Ascospores*, *Basidiospores*, *Cladosporium*, *Other Brown*, *Penicillium/Aspergillus*, (*Smuts*, *Periconia*, and *Myxomycetes Group*).

Species of molds present inside the buildings included *Basidiospores*, *Cladosporium*, *Penicillium/Aspergillus*, and (*Smuts*, *Periconia*, *Myxomycetes Group*).

Conclusion

Based upon the certified laboratory reports of the air samples conducted inside the occupied rooms and boy's restroom at Kings Mountain Elementary School, F.I.T. Environmental Services has determined that the indoor air quality is that of a "normal building environment" in the areas identified above in accordance with industry standard indoor air quality protocols and state of the art indoor air quality assessment.

FIT Environmental Services appreciates the opportunity to provide our microbial services. Please contact Michael Michie at (707) 205-5076 if you have any questions.

Respectfully submitted,



A handwritten signature in black ink, appearing to read "P. Garrett", is written over the logo.

Patrick Garrett, CAC (# 15-5359) CDPH (#110)
Certified Commercial Mold Inspector
Vice President/Principal Consultant

A handwritten signature in black ink, appearing to read "Michael Michie", is written above the contact information.

Michael Michie, CAC (#11-4729)
Certified Commercial Mold Inspector
President/Principal Consultant

Attachments: Certified Analytical Report
Chain of Custody

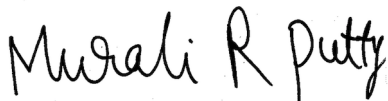
Report for:

Pat Garrett, Michael Michie
F.I.T. Services, LLC
952 School St. #111
Napa, CA 94559

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-019; Kings Mountain Elementary School 211 Swett Rd.
EML ID: 3172167

Approved by:

Dates of Analysis:
Spore trap analysis: 02-20-2023



Technical Manager
Murali Putty

Service SOPs: Spore trap analysis (EM-MY-S-1038)
AIHA-LAP, LLC accredited service, Lab ID #102856

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 EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EPK Built Environment Testing, 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: F.I.T. Services, LLC
 C/O: Pat Garrett, Michael Michie
 Re: 23-019; Kings Mountain Elementary School 211 Swett Rd.

Date of Sampling: 02-20-2023
 Date of Receipt: 02-20-2023
 Date of Report: 02-21-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	4823323: Front Office		4823293: Staff Room		4823467: Cafeteria/Library - Lions Den		4823464: Classroom 1 TK/K/ 1	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	15344719-1		15344720-1		15344721-1		15344722-1	
Analysis Date:	02/20/2023		02/20/2023		02/20/2023		02/20/2023	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores	1	53						
Chaetomium								
Cladosporium			2	110				
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†			5	270	1	53	1	53
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	< 13		27		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		53		370		53		53

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/m³ divided by the raw count, expressed in spores/m³, 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: 02-20-2023
 Date of Receipt: 02-20-2023
 Date of Report: 02-21-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	4823317: Classroom 2 After School		4823315: Classroom 3 Science		4823339: Classroom 4 2/3		4823282: Boys Restroom	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	15344723-1		15344724-1		15344725-1		15344726-1	
Analysis Date:	02/20/2023		02/20/2023		02/20/2023		02/20/2023	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores					1	53		
Chaetomium								
Cladosporium					3	160		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	1	53	2	110	4	210	1	53
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes			1	13				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	1+		1+		2+		1+	
Hyphal fragments/m3	< 13		13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		53		120		430		53

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/m³ divided by the raw count, expressed in spores/m³, 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: F.I.T. Services, LLC
 C/O: Pat Garrett, Michael Michie
 Re: 23-019; Kings Mountain Elementary School 211 Swett Rd.

Date of Sampling: 02-20-2023
 Date of Receipt: 02-20-2023
 Date of Report: 02-21-2023

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	4823411: Classroom 4/5		4823450: Outside Bldg	
Comments (see below)	None		None	
Lab ID-Version‡:	15344727-1		15344728-1	
Analysis Date:	02/20/2023		02/20/2023	
	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores			16	430
Basidiospores			48	1,300
Botrytis				
Chaetomium				
Cladosporium	1	53	13	350
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown			1	7
Other colorless				
Penicillium/Aspergillus types†	2	110	14	370
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes			1	7
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	2+		3+	
Hyphal fragments/m3	< 13		20	
Pollen/m3	< 13		< 7	
Skin cells (1-4+)	1+		< 1+	
Sample volume (liters)	75		150	
§ TOTAL SPORES/m3		160		2,400

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/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.

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

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 C/O: Pat Garrett, Michael Michie
 Re: 23-019; Kings Mountain Elementary School 211 Swett Rd.

Date of Sampling: 02-20-2023
 Date of Receipt: 02-20-2023
 Date of Report: 02-21-2023

MoldRANGE™: Extended Outdoor Comparison
Outdoor Location: 4823450, Outside Bldg

Fungi Identified	Outdoor data	Typical Outdoor Data for: February in California† (n‡=31202)						Typical Outdoor Data for: The entire year in California† (n‡=380349)					
		very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	20	53	67	36	13	13	27	56	110	51
Bipolaris/Drechslera group	-	7	13	13	27	53	6	7	13	13	27	53	12
Chaetomium	-	8	13	13	27	40	10	10	13	13	27	40	19
Cladosporium	350	80	160	430	1,200	1,900	94	110	210	590	1,600	2,700	96
Curvularia	-	7	13	13	27	40	2	7	13	13	29	53	6
Nigrospora	-	7	13	13	13	40	5	7	13	13	33	53	9
Other brown	7	13	13	13	40	53	30	13	13	13	40	53	35
Penicillium/Aspergillus types	370	53	80	210	590	960	78	53	89	210	640	1,100	80
Stachybotrys	-	13	13	13	40	80	3	8	13	13	40	67	4
Torula	-	8	13	13	40	53	5	10	13	13	40	67	11
Seldom found growing indoors**													
Ascospores	430	27	53	160	550	1,100	69	27	53	110	400	830	68
Basidiospores	1,300	53	110	370	1,800	3,700	93	53	67	230	1,000	2,500	91
Rusts	-	8	13	13	40	80	14	13	13	13	53	89	24
Smuts, Periconia, Myxomycetes	7	13	13	27	67	110	55	13	13	40	120	230	68
§ TOTAL SPORES/m3	2,400												

†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.

Client: F.I.T. Services, LLC
 C/O: Pat Garrett, Michael Michie
 Re: 23-019; Kings Mountain Elementary School 211 Swett Rd.

Date of Sampling: 02-20-2023
 Date of Receipt: 02-20-2023
 Date of Report: 02-21-2023

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 4823450: Outside Bldg

Species detected	Outdoor sample spores/m3				Typical outdoor ranges (North America)	Freq. %
	<100	1K	10K	>100K		
Ascospores				430	13 - 210 - 6,000	74
Basidiospores				1,300	13 - 440 - 25,000	89
Cladosporium				350	27 - 450 - 7,500	88
Other brown				7	7 - 20 - 160	27
Penicillium/Aspergillus types				370	20 - 200 - 2,700	62
Smuts, Periconia, Myxomycetes				7	7 - 53 - 850	64
Total				2,400		

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 occurrence 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: 4823323: Front 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: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.7286 Critical value: 0.7714 Outside Similar: No	Score: 103 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Basidiospores				53
	Total				53

Location: 4823293: Staff Room

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 15%	dF: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.1857 Critical value: 0.7714 Outside Similar: No	Score: 134 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
	Cladosporium				110
	Penicillium/Aspergillus types				270
	Total				370

Client: F.I.T. Services, LLC
 C/O: Pat Garrett, Michael Michie
 Re: 23-019; Kings Mountain Elementary School 211 Swett Rd.

Date of Sampling: 02-20-2023
 Date of Receipt: 02-20-2023
 Date of Report: 02-21-2023

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 4823467: Cafeteria/Library - Lions Den

% 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: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
		>100K		
Penicillium/Aspergillus types		53		
Total		53		

Location: 4823464: Classroom 1 TK/K/1

% 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: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
		>100K		
Penicillium/Aspergillus types		53		
Total		53		

Location: 4823317: Classroom 2 After School

% 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: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low
Species Detected		Spores/m3		
		<100	1K	10K
		>100K		
Penicillium/Aspergillus types		53		
Total		53		

Client: F.I.T. Services, LLC
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Date of Sampling: 02-20-2023
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 Date of Report: 02-21-2023

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 4823315: Classroom 3 Science

% 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: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.0286 Critical value: 0.7714 Outside Similar: No	Score: 115 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					110
Smuts, Periconia, Myxomycetes					13
Total					120

Location: 4823339: Classroom 4 2/3

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 17%	dF: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.6667	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 123 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Basidiospores					53
Cladosporium					160
Penicillium/Aspergillus types					210
Total					430

Location: 4823282: Boys Restroom

% 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: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: 0.3857 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Penicillium/Aspergillus types					53
Total					53

Client: F.I.T. Services, LLC
 C/O: Pat Garrett, Michael Michie
 Re: 23-019; Kings Mountain Elementary School 211 Swett Rd.

Date of Sampling: 02-20-2023
 Date of Receipt: 02-20-2023
 Date of Report: 02-21-2023

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 4823411: Classroom 4/5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 6%	dF: 8 Result: 7.6833 Critical value: 15.5073 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.1857 Critical value: 0.7714 Outside Similar: No	Score: 114 Result: Low	
Species Detected		Spores/m3			
		<100	1K	10K	>100K
Cladosporium					53
Penicillium/Aspergillus types					110
Total					160

* 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 EMLab P&K reserves 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 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. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Eurofins EMLab P&K 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.



952 School St. #111
Napa, CA 94559

Microbial SAMPLE DATA SHEET

PAGE 1 OF 2

Project Name/Address: Kings Mountain Elementary School 211 Sweet Rd. Report Recipient:

Client Name: CUSD F.I.T. Project #: 23-019 Sampled By: M. Michie/D. Saneff Sampling Date: 2-20-2023

Sample(s) Sent To: MAL BMT Lab Other: Turnaround Time: Rush Standard

Email Report To: mmichie@fitenvironmental.com pgarrett@fitenvironmental.com

SANEFF

Sample I.D. #	Date	Type	Sample Description					Sample Location	Volume Liters	Culture	Culture Screen	Direct Exam	Legionella	REMARKS:
			Air	Bulk	Swab	Water	Tape Lift							
4823323	2-20	Spore Trap	<input checked="" type="checkbox"/>					Scout Office	75					
4823393			<input checked="" type="checkbox"/>					STAFF Room	75					
4823467			<input checked="" type="checkbox"/>					Labeling/Library - Lionspen	75					
4823464			<input checked="" type="checkbox"/>					CLASS ROOM 1 TK/K/1	75					
4823317			<input checked="" type="checkbox"/>					CLASS ROOM 2 AFKA School	75					
4823315			<input checked="" type="checkbox"/>					CLASS ROOM 3 Science	75					
4823339			<input checked="" type="checkbox"/>					CLASS ROOM 4 2/3	75					
4823282			<input checked="" type="checkbox"/>					Boys Restroom	75					
4823411			<input checked="" type="checkbox"/>					CLASSROOM 4/5	75					



NAME:

SIGNATURE:

DATE:

REMARKS:

Relinquished By:	<u>Michael Michie</u>	<u>[Signature]</u>	<u>2-20-2023</u>
Received By:	<u>A. MORRISSEY</u>	<u>[Signature]</u>	<u>2-20-23 12:20p</u>
Relinquished By:			
Received By:			

