



Report for:

Richard Walters
Bixby Public Schools
109 N. Armstrong
Bixby, OK 74008

Regarding: Project: Northeast Elem; Rm E - 202
EML ID: 2200298

Approved by:

Dates of Analysis:
Spore trap analysis: 07-11-2019

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. Sample air volume is supplied by the client.

EMLab P&K ("the Company") 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.

EMLab P&K'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: Bixby Public Schools
C/O: Richard Walters
Re: Northeast Elem; Rm E - 202

Date of Receipt: 07-09-2019
Date of Report: 07-11-2019

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	1: Pre outside air			2: RM E - 202			3: Post outside air		
Comments (see below)	None			None			None		
Lab ID-Version‡:	10452342-1			10452343-1			10452344-1		
Analysis Date:	07/11/2019			07/11/2019			07/11/2019		
	raw ct.	adj. ct.	spores/m3	raw ct.	adj. ct.	spores/m3	raw ct.	adj. ct.	spores/m3
Alternaria	30	30	200				21	21	140
Ascospores	140	560	3,700	1	4	27	72	288	1,900
Basidiospores	59	236	1,600	6	24	160	152	608	4,100
Bipolaris/Drechslera group	5	5	33				1	1	7
Botrytis	1	1	7						
Cercospora	5	5	33				11	11	73
Chaetomium	1	1	7						
Cladosporium	241	964	6,400	135	540	3,600	183	732	4,900
Curvularia	20	20	130				9	9	60
Epicoccum	7	7	47				4	4	27
Monodictys	19	19	130				14	14	93
Nigrospora	1	1	7				2	2	13
Other brown				9	36	240			
Penicillium/Aspergillus types†							2	8	53
Pithomyces	1	1	7				3	3	20
Polythrincium							1	1	7
Pyricularia	9	9	60						
Rusts	1	1	7						
Smuts, Periconia, Myxomycetes	26	26	170				34	34	230
Stachybotrys									
Torula									
Ulocladium									
Zygomycetes									
Background debris (1-4+)††	3+			1+			3+		
Sample volume (liters)	150			150			150		
§ TOTAL SPORES/m3			13,000			4,000			12,000

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. The limit of detection is the analytical sensitivity (in spores/m³) multiplied by the sample volume (in liters) divided by 1000 liters.

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.