



5/22/18

Bixby Public Schools  
116 N Armstrong  
Bixby, OK 74008

Project: Northeast Elementary Room 111 West

We performed airborne mold samples in at the above location. This sampling was performed to determine airborne mold concentrations.

Results from the survey indicate that all indoor concentrations are half or less of the outdoor concentration and are therefore within current guidelines. No airborne *Stachybotrys* was detected.

Tape lift samples were taken from the discolored wall area near the ceiling. Please see attached report.

## **Methods**

### **Calibration of Pumps**

Air sampling pumps were calibrated in the field before and after the survey, utilizing a secondary calibration device, namely a calibrated precision rotometer. This secondary calibration device is calibrated in-house on a quarterly basis utilizing a primary standard namely a frictionless piston of known volume and an accurate chronometer.

## **Methods**

### **Mold/Fungi**

Air sampling for mold/fungi was accomplished by the use of an Allergenco media drawing air at a flow rate of 15 liters per minute, for a total sampling time of five minutes. As the mold/fungi pass through the air and into the Allergenco, they are impacted onto the media inside the sampling train and retained therein. At the end of each sampling procedure, the cassette plate is carefully removed from the sampling device, capped, sealed, and identified with an individual identification number.

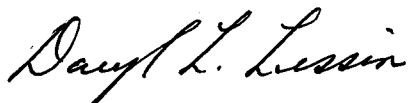
## Standards

### Mold/Fungi

Currently, there are no standards for acceptable levels of microorganisms in bio-aerosol samples derived from indoor environments. However, for the purpose of this report, the guidelines proposed by the United States Environmental Protection Agency (USEPA), as outlined in Protocol 600/8-91/202, 1992, and the American Industrial Hygiene Association (AIHA) Field Guide for the determination of biological contaminants in environmental samples 1996, and the American Conference of Governmental Hygienists (ACGIH) Bio-aerosols 1999 have been adopted. The upper acceptable level in bulk sample is considered when the concentration is above 10,000 colony forming units per gram (CFU/g).

If you have any questions please feel free to contact us.

Thank you,

A handwritten signature in cursive script that reads "Daryl L. Lessin".

Daryl L. Lessin  
President

Earth Tech Enterprises, Inc.  
5409 E 15th St  
Tulsa, OK 74112  
918-712-9163



05/22/18

Bixby Public Schools  
601 S Riverview Dr  
Bixby, OK 74008

Project: NE Elementary  
11901 E. 131st  
Broken Arrow, OK

Date Collected: 05/22/18  
Date Received: 05/22/18

Sample: 1 - 2371418 - West 111 - Teacher's Deck

Air-Fungi Ct & ID	Counts	Result	Units	Percent
TOTAL AIR VOLUME (L)	75			

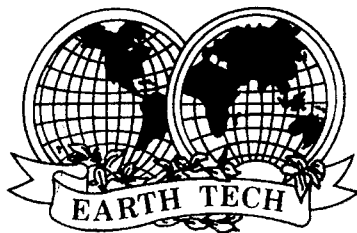
TOTAL ADJUSTED FUNGI	961 counts/m3
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#### FUNGI

Alternaria	320	33%
Ascospores	213	22%
Penicillium/Aspergillus	107	11%
Drechslera	107	11%
Cladosporium	107	11%
Spegazzinina	107	11%

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Date Collected: 05/22/18  
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Sample: 2 - 2371417 - N. Side Room

Air-Fungi Ct & ID	Counts	Result	Units	Percent
TOTAL AIR VOLUME (L)	75			

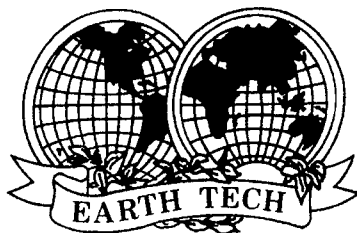
TOTAL ADJUSTED FUNGI	906 counts/m3
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#### FUNGI

Alternaria	107	12%
Penicillium/Aspergillus	213	24%
Botrytis	53	6%
Cladosporium	533	59%

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Sample: 3 - 2371419 - Outdoors

Air-Fungi Ct & ID	Counts	Result	Units	Percent
TOTAL AIR VOLUME (L)	75			

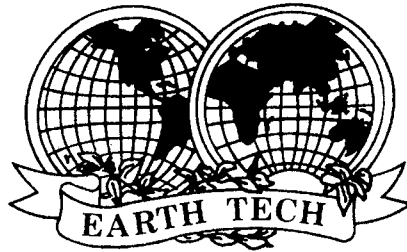
TOTAL ADJUSTED FUNGI	3145 counts/m3
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#### FUNGI

Ascospores	906	29%
Penicillium/Aspergillus	1333	42%
Botrytis	107	3%
Cladosporium	639	20%
Periconia	160	5%

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Broken Arrow, OK

Sample No.	Mold Species	Approximate Percentage
4 Wall East Side	Cladosporium	15%
5 Wall West Side	Cladosporium	10%

David L. Lessor

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