

**Midwest
Environmental
Consulting Services, Inc.**

*Providing Quality Service
Since 1994*

Consultants ◀ Engineers ◀ Scientists

AIRBORNE MOLD SAMPLING REPORT

Performed for:

LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT #103

1370 N. Riverwoods Road
Lincolnshire, IL 60069

Project Location:



LAURA B. SPRAGUE ELEMENTARY SCHOOL

2425 Riverwoods Road
Lincolnshire, IL 60069

Visit Date: April 7, 2016

MEC Project #: 16-01-031-I.H.

EXECUTIVE SUMMARY

Midwest Environmental Consulting Services, Inc. (MEC) was retained to provide airborne mold sampling within selected areas at Laura B. Sprague Elementary School located at 2425 Riverwoods Road in Lincolnshire, Illinois.

The purpose of this sampling was to determine whether airborne mold concentrations at select locations within Laura B. Sprague Elementary School were significantly different from those present in the outdoor air. These samples were collected as a follow-up to an earlier sampling event performed during January 2016.

This visit occurred on April 7, 2016.

- *Airborne Mold Spore Sampling*

No molds that are commonly associated with the presence of moisture impacted building materials were detected in any of the rooms tested during this visit.

No source of airborne molds independent of the outside air is considered present at the Multipurpose Room or Room 34.

Based on this visit, the following conclusion is reached:

- No source of airborne molds independent of the outside air is considered present at the Multipurpose Room or Room 34.

Based on this conclusion, the following recommendation is provided:

- Inform and educate building users to report any instance of uncontrolled water to building authorities as soon as possible. Building authorities should address any report of uncontrolled water as an urgent matter requiring prompt action to control the water and dry/replace any impacted building materials and/or furnishings as needed.

INTRODUCTION

Midwest Environmental Consulting Services, Inc. (MEC) was retained to provide airborne mold sampling within selected areas at Laura B. Sprague Elementary School located at 2425 Riverwoods Road in Lincolnshire, Illinois.

The purpose of this sampling was to determine whether airborne mold concentrations at select locations within the Laura B. Sprague Elementary School were significantly different from those present in the outdoor air. These samples were collected as a follow-up to an earlier sampling event performed during January 2016.

This visit occurred on April 7, 2016.

MEC was represented during the subject visits by David W. Sloman, CIH.

METHODS

- *Airborne Mold Spore Sampling*



The spore trap air sampling was performed using a high volume air-sampling pump attached to an Air-O-Cell cassette provided by Zefon Corporation containing a tacky substance used to trap mold spores from air on through the method of impaction. For this sampling, pumps operated for approximately five minutes in each location at 15 liters per minute, according to manufacturer's recommendations. The air sampling process impacts particulates (including mold fragments) onto the Air-O-Cell cassette, which is then forwarded to a laboratory for microbial identification.

An independent laboratory (STAT Analysis Corporation, Chicago, Illinois.) accredited by the American Industrial Hygiene Association (AIHA) was used for all microscopic identification.

RESULTS

- *Airborne Mold Spore Sampling*

The table below displays the results of the airborne mold spore sampling. The table displays the sample ID number, sampled location, types of spores detected, their concentration, and their percent of the total spores detected in the respective sample.

Sample ID Number	Sampled Location	Type of Mold Detected	Concentration (counts/m ³)	Percent of the Total Molds
21863589	Outside Air	Smuts/Myxomycetes	53	100.0
21861925	Multipurpose Room	Alternaria	13	9.1
		Smuts/Myxomycetes	133	90.9
21863583	Room 34	Cladosporium	13	10.0
		Smuts/Myxomycetes	120	90.0

No molds that are commonly associated with the presence of moisture impacted building materials were detected in any of the rooms tested during this visit.

A copy of the laboratory analysis report for these samples is provided in Appendix 1. Photos of the sampled areas are provided in Appendix 2.

CONCLUSIONS AND RECOMMENDATIONS

- *Airborne Mold Spore Testing*

There is no uniformity in the suggested guidelines for acceptable levels of molds in indoor ambient air. Thus, health professionals have no way to determine what levels of molds may pose a threat to human health.

According to the American Conference of Governmental Industrial Hygienists (ACGIH), an independent source of molds likely exists indoors when either of the following conditions exists:

- There is a significantly greater concentration of molds present indoors compared with outdoors (barring a heavy snow covering or rainfall), or
- The types of molds present indoors are significantly different than the types of molds present outdoors.

No molds that are commonly associated with the presence of moisture impacted building materials were detected in any of the rooms tested during this visit.

No source of airborne molds independent of the outside air is considered present at the Multipurpose Room or Room 34.

Based on this visit, the following conclusion is reached:

- No source of airborne molds independent of the outside air is considered present at the Multipurpose Room or Room 34.

Based on this conclusion, the following recommendation is provided:

- Inform and educate building users to report any instance of uncontrolled water to building authorities as soon as possible. Building authorities should address any report of uncontrolled water as an urgent matter requiring prompt action to control the water and dry/replace any impacted building materials and/or furnishings as needed.

Respectfully submitted,



David W. Sloman, CIH
(630) 553-3989
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4 Bonnie Lane
Yorkville, IL 60560

Appendices (2)

1. Laboratory Analysis Report
2. Photos

APPENDIX 1
Laboratory Analysis Reports
Laura B. Sprague Elementary School
Lincolnshire, Illinois
April 7, 2016

STAT Analysis Corporation:
 2242 West Harrison St., Suite 200, Chicago, Illinois 60612-3766
 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATInfo@STATAnalysts.com

Analytical Report for Microbiological Analysis - Fungal Spores in Air

Client: MECS Date/Time Received: 4/12/16 11:45
 Project ID: 16-01-031, Sprague School, Lincolnshire Date Analyzed: 4/15/2016
 STAT Project No.: 16040386 Analyzed By: AM
 QC By: DM

Client Sample No.:	21863589				21861925				21863583							
Sample Description:																
Date Sampled:	4/7/2016				4/7/2016				4/7/2016							
STAT Sample No.:	16040386-001				16040386-002				16040386-003							
Volume (m ³):	0.075				0.075				0.075							
	Total Count	Count/m ³	DL	%	Total Count	Count/m ³	DL	%	Total Count	Count/m ³	DL	%	Total Count	Count/m ³	DL	%
Total Fungal Spores:	4	53	13	100	11	147	13	100	10	133	13	100				100
<i>Alternaria</i>					1	13		9.1								
Ascospores																
<i>Aspergillus/Penicillium</i>																
Basidiospores																
<i>Botrytis</i>																
<i>Cercospora</i>																
<i>Chaetomium</i>																
<i>Cladosporium</i>									1	13		10.0				
<i>Curvularia</i>																
<i>Drechslera/Bipolaris</i>																
<i>Epicoccum</i>																
<i>Fusarium</i>																
<i>Nigrospora</i>																
<i>Oidium/Erysiphe</i>																
<i>Periconia</i>																
<i>Phoma</i>																
<i>Pithomyces</i>																
<i>Pleospora</i>																
<i>Polythrincium</i>																
<i>Rhizopus/Mucor</i>																
Rusts																
Smuts / Myxomycetes	4	53		100.0	10	133		90.9	9	120		90.0				
<i>Stachybotrys</i>																
<i>Stomphylium</i>																
<i>Torula</i>																
<i>Ulocladium</i>																
Unidentified Fungi																
Other																
Mycelial Fragments																
Debris Level	Moderate				Moderate				Moderate							
Organic Material	Present				Present				Present							

DL - Detection Limit = Spores/m³

SOP 6110

Performed for:
 LINCOLNSHIRE-PRAIRIE VIEW SCHOOL DISTRICT #103
 1370 N. Riverwoods Road
 Lincolnshire, IL 60069
 MEC Project #: 16-01-031-I.H.

APPENDIX 2
Photos
Laura B. Sprague Elementary School
Lincolnshire, Illinois
April 7, 2016



View outside Subject Building, location for Sample 21863589.



View of Multi-purpose Room, location for Sample 21861925.



View of Room 34, location for Sample 21863583.

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