

**Midwest
Environmental
Consulting Services, Inc.**

*Providing Quality Service
Since 1994*

Consultants ◀ Engineers ◀ Scientists

**FOLLOW-UP MOLD AIR
SAMPLING REPORT**

Performed for:

**LINCOLNSHIRE-PRAIRIE VIEW
SCHOOL DISTRICT #103**

1370 N. Riverwoods Road
Lincolnshire, IL 60069

Project Location:



DANIEL WRIGHT JUNIOR HIGH SCHOOL

*1370 N. Riverwoods Road
Lincolnshire, IL 60069*

Visit Date: March 29, 2017

MEC PROJECT #: 17-01-014-I.H.

EXECUTIVE SUMMARY

Midwest Environmental Consulting Services, Inc. (MEC) was retained to provide airborne mold sampling at selected areas at the Daniel Wright Junior High School, located at 1370 N. Riverwoods Road in Lincolnshire, Illinois.

The purpose of this sampling was to determine whether airborne mold concentrations at select areas within the Daniel Wright Junior High School were significantly different from those present in the outdoor air.

This visit occurred on March 29, 2017.

No molds were detected that are commonly associated with the presence of moisture impacted building materials were detected in any of the samples collected.

Based on these results, the following conclusion is reached:

- No source of molds were detected in any indoor sampled area, independent of the outside air.

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 at selected areas at the Daniel Wright Junior High School, located at 1370 N. Riverwoods Road in Lincolnshire, Illinois.

The purpose of this sampling was to determine whether airborne mold concentrations at select areas within the Daniel Wright Junior High School were significantly different from those present in the outdoor air.

This visit occurred on March 29, 2017.

MEC was represented during the subject visit 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

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

Sample ID Number	Sampled Location	Molds Detected	Concentration (counts/m ³)	Percent of Total Molds
24026025	Outside Air	Smuts/Myxomycetes	13	100.0
24026129	Room 200	Smuts/Myxomycetes	13	33.3
		Aureobasidium	27	66.7
24026136	Room 202	Smuts/Myxomycetes	13	100.0
24026035	Room 210	Smuts/Myxomycetes	13	100.0
24026017	Room 215	Smuts/Myxomycetes	40	100.0
24026134	Room 101	Ascospores	13	50.0
		Smuts/Myxomycetes	13	50.0
24026013	Room 102	Ascospores	13	100.0
24026011	Room 106	Ascospores	27	100.0
24026028	Room 115	Cladosporium	13	16.7
		Smuts/Myxomycetes	67	83.3
24026124	Room 116	Smuts/Myxomycetes	27	100.0
24026009	Room 117	Smuts/Myxomycetes	13	100.0
24026034	Room 109	Cladosporium	40	60.0
		Smuts/Myxomycetes	27	40.0
24026014	Room 111	Cladosporium	13	9.1
		Smuts/Myxomycetes	133	90.9
24026018	Room 112	Smuts/Myxomycetes	80	100.0
24026122	Room 113	Smuts/Myxomycetes	27	100.0
24026020	Room 122	Smuts/Myxomycetes	40	100.0
24026012	Room 125	Smuts/Myxomycetes	107	100.0
24026019	Room 128	Smuts/Myxomycetes	13	100.0
24026021	Room 131	Ascospores	13	12.5
		Smuts/Myxomycetes	93	87.5
24026132	Room 132	Smuts/Myxomycetes	40	100.0
24026015	Outside Air	Smuts/Myxomycetes	80	100.0

No molds were detected that are commonly associated with the presence of moisture impacted building materials were detected in any of the samples collected.

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

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 were detected that are commonly associated with the presence of moisture impacted building materials were detected in any of the samples collected.

Based on these results, the following conclusion is reached:

- No source of molds were detected in any indoor sampled area, independent of the outside air.

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
Midwest Environmental Consulting Services, Inc.
4 Bonnie Lane
Yorkville, IL 60560

Appendices (2)

1. Laboratory Analysis Report
2. Photos

Performed for:
LINCOLNSHIRE-PRAIRIEVIEW SCHOOL DISTRICT #103
1370 N .Riverwoods Road
Lincolnshire, IL 60069
MEC Project #: 17-01-014-I.H.

APPENDIX 1
Laboratory Analysis Report
Daniel Wright Junior High School
Lincolnshire, Illinois
March 29, 2017

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@STATAnalysis.com

Analytical Report for Microbiological Analysis - Fungal Spores in Air

Client: MECS Date/Time Received: 3/30/17 1:50 PM
 Project ID: 17-01-014, Daniel Wright, Lincolnshire Date Reported: 4/5/2017
 STAT Project No.: 17030866 Analyzed By: AM

Client Sample No.:	24026025				24026129				24026136				24026035			
Sample Description:																
Date Sampled:	3/29/2017				3/29/2017				3/29/2017				3/29/2017			
STAT Sample No.:	17030866-001				17030866-002				17030866-003				17030866-004			
Volume (m ³):	0.075				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:	1	13	1	100	3	40	1	100	1	13	1	100	1	13	1	100
<i>Alternaria</i>																
Ascospores																
<i>Aspergillus/Penicillium</i>																
Basidiospores																
<i>Botrytis</i>																
<i>Cercospora</i>																
<i>Chaetomium</i>																
<i>Cladosporium</i>																
<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>Polythrinctum</i>																
<i>Rhizopus/Mucor</i>																
Rusts																
Smuts/Myxomycetes	1	13	1	100.0	1	13	1	33.3	1	13	1	100.0	1	13	1	100.0
<i>Stachybotrys</i>																
<i>Stemphylium</i>																
<i>Torula</i>																
<i>Ulocladium</i>																
Unidentified Fungi																
Other: Aureobasidium					2	27	1	66.7								
Mycelial Fragments																
Debris Level	Moderate				Moderate				Moderate				Moderate			
Organic Material	Present				Present				Present				Present			

DL - Detection Limit = Spores

SOP 6110

Performed for:
LINCOLNSHIRE-PRAIRIEVIEW SCHOOL DISTRICT #103
 1370 N .Riverwoods Road
 Lincolnshire, IL 60069
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Analytical Report for Microbiological Analysis - Fungal Spores in Air

Client: MECS Date/Time Received: 3/30/17 1:50 PM
 Project ID: 17-01-014, Daniel Wright, Lincolnshire Date Reported: 4/5/2017
 STAT Project No.: 17030866 Analyzed By: AM

Client Sample No.:	24026017				24026134				24026013				24026011			
Sample Description:																
Date Sampled:	3/29/2017				3/29/2017				3/29/2017				3/29/2017			
STAT Sample No.:	17030866-005				17030866-006				17030866-007				17030866-008			
Volume (m ³):	0.075				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:	3	40	1	100	2	27	1	100	1	13	1	100	2	27	1	100
<i>Alternaria</i>																
Ascospores					1	13	1	50.0	1	13	1	100.0	2	27	1	100.0
<i>Aspergillus/Penicillium</i>																
Basidiospores																
<i>Botrytis</i>																
<i>Cercospora</i>																
<i>Chaetomium</i>																
<i>Cladosporium</i>																
<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	3	40	1	100.0	1	13	1	50.0								
<i>Stachybotrys</i>																
<i>Stemphylium</i>																
<i>Torula</i>																
<i>Ulocladium</i>																
Unidentified Fungi																
Other																
Mycelial Fragments																
Debris Level	Moderate				Moderate				Moderate				Moderate			
Organic Material	Present				Present				Present				Present			

DL - Detection Limit = Spores

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 Project ID: 17-01-014, Daniel Wright, Lincolnshire Date Reported: 4/5/2017
 STAT Project No.: 17030866 Analyzed By: AM

Client Sample No.:	24026028				24026124				24026009				24026034			
Sample Description:																
Date Sampled:	3/29/2017				3/29/2017				3/29/2017				3/29/2017			
STAT Sample No.:	17030866-009				17030866-010				17030866-011				17030866-012			
Volume (m ³):	0.075				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:	6	80	1	100	2	27	1	100	1	13	1	100	5	67	1	100
<i>Alternaria</i>																
Ascospores																
<i>Aspergillus/Penicillium</i>																
Basidiospores																
<i>Botrytis</i>																
<i>Cercospora</i>																
<i>Chaetomium</i>																
<i>Cladosporium</i>	1	13	1	16.7									3	40	1	60.0
<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	5	67	1	83.3	2	27	1	100.0	1	13	1	100.0	2	27	1	40.0
<i>Stachybotrys</i>																
<i>Stemphylium</i>																
<i>Torula</i>																
<i>Ulocladium</i>																
Unidentified Fungi																
Other																
Mycelial Fragments																
Debris Level	Moderate				Moderate				Moderate				Moderate			
Organic Material	Present				Present				Present				Present			

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Analysis Corporation:

2242 West Harrison St., Suite 200, Chicago, Illinois 60612-3766
 Tel: 312.733.0551; Fax: 312.733.2386; e-mail address: STATinfo@STATAnalysis.com

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 Project ID: 17-01-014, Daniel Wright, Lincolnshire Date Reported: 4/5/2017
 STAT Project No.: 17030866 Analyzed By: AM

Client Sample No.:	24026014				24026018				24026122				24026020			
Sample Description:																
Date Sampled:	3/29/2017				3/29/2017				3/29/2017				3/29/2017			
STAT Sample No.:	17030866-013				17030866-014				17030866-015				17030866-016			
Volume (m ³):	0.075				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:	11	147	1	100	6	80	1	100	2	27	1	100	3	40	1	100
<i>Alternaria</i>																
Ascospores																
<i>Aspergillus/Penicillium</i>																
Basidiospores																
<i>Botrytis</i>																
<i>Cercospora</i>																
<i>Chaetomium</i>																
<i>Cladosporium</i>	1	13	1	9.1												
<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	10	133	1	90.9	6	80	1	100.0	2	27	1	100.0	3	40	1	100.0
<i>Stachybotrys</i>																
<i>Stemphylium</i>																
<i>Torula</i>																
<i>Ulocladium</i>																
Unidentified Fungi																
Other																
Mycelial Fragments																
Debris Level	Moderate				Moderate				Moderate				Moderate			
Organic Material	Present				Present				Present				Present			

DL - Detection Limit = Spores

SOP 6110

Performed for:
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 Project ID: 17-01-014, Daniel Wright, Lincolnshire Date Reported: 4/5/2017
 STAT Project No.: 17030866 Analyzed By: AM

Client Sample No.:	24026012				24026019				24026021				24026132			
Sample Description:																
Date Sampled:	3/29/2017				3/29/2017				3/29/2017				3/29/2017			
STAT Sample No.:	17030866-017				17030866-018				17030866-019				17030866-020			
Volume (m ³):	0.075				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:	8	107	1	100	1	13	1	100	8	107	1	100	3	40	1	100
<i>Alternaria</i>																
Ascospores									1	13	1	12.5				
<i>Aspergillus/Penicillium</i>																
Basidiospores																
<i>Botrytis</i>																
<i>Cercospora</i>																
<i>Chaetomium</i>																
<i>Cladosporium</i>																
<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>Pleospors</i>																
<i>Polythrincium</i>																
<i>Rhizopus/Mucor</i>																
Rusts																
Smuts/Myxomycetes	8	107	1	100.0	1	13	1	100.0	7	93	1	87.5	3	40	1	100.0
<i>Stachybotrys</i>																
<i>Stemphylium</i>																
<i>Torula</i>																
<i>Ulocladium</i>																
Unidentified Fungi																
Other																
Mycelial Fragments																
Debris Level	Moderate				Moderate				Moderate				Moderate			
Organic Material	Present				Present				Present				Present			

DL - Detection Limit = Spores

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Client: MECS Date/Time Received: 3/30/17 1:50 PM
 Project ID: 17-01-014, Daniel Wright, Lincolnshire Date Reported: 4/5/2017
 STAT Project No.: 17030866 Analyzed By: AM

Client Sample No.:	24026015															
Sample Description:																
Date Sampled:	3/29/2017															
STAT Sample No.:	17030866-021															
Volume (m ³):	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:	6	80	1	100				100				100				100
<i>Alternaria</i>																
<i>Ascospores</i>																
<i>Aspergillus/Penicillium</i>																
<i>Basidiospores</i>																
<i>Bonytis</i>																
<i>Cercospora</i>																
<i>Chaetomium</i>																
<i>Cladosporium</i>																
<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	6	80	1	100.0												
<i>Stachybotrys</i>																
<i>Stemphylium</i>																
<i>Torula</i>																
<i>Ulocladium</i>																
Unidentified Fungi																
Other																
Mycelial Fragments																
Debris Level	Moderate															
Organic Material	Present															

DL - Detection Limit = Spores

SOP 6110

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LINCOLNSHIRE-PRAIRIEVIEW SCHOOL DISTRICT #103
 1370 N .Riverwoods Road
 Lincolnshire, IL 60069
 MEC Project #: 17-01-014-I.H.

APPENDIX 2
Photos
Daniel Wright Junior High School
Lincolnshire, Illinois
March 29, 2017



View outside Subject Building, location for Sample 24026025.



View of Room 200, location for Sample 24026129.



View of Room 202, location for Sample 24026136.



View of Room 210, location for Sample 24026035.

Performed for:
LINCOLNSHIRE-PRAIRIEVIEW SCHOOL DISTRICT #103
1370 N .Riverwoods Road
Lincolnshire, IL 60069
MEC Project #: 17-01-014-I.H.



View of Room 215, location for Sample 24026017.



View of Room 101, location for Sample 24026134.



View of Room 102, location for Sample 24026023.



View of Room 106, location for Sample 24026011.

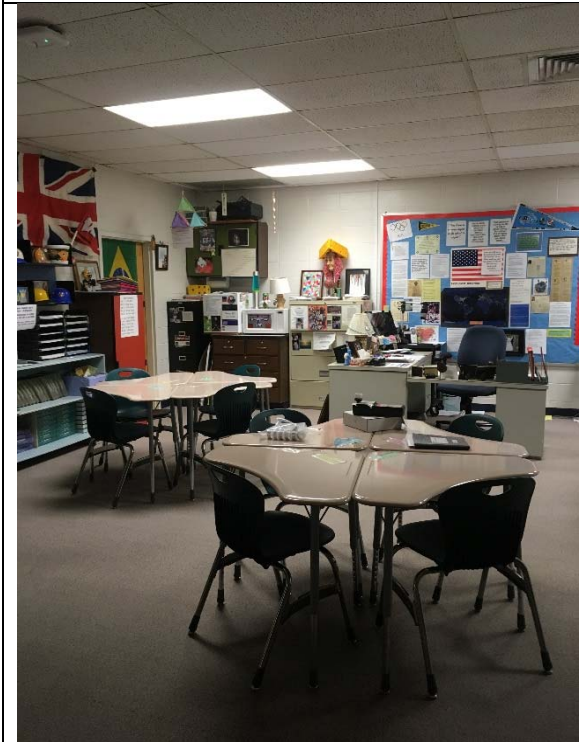
Performed for:
LINCOLNSHIRE-PRAIRIEVIEW SCHOOL DISTRICT #103
1370 N .Riverwoods Road
Lincolnshire, IL 60069
MEC Project #: 17-01-014-I.H.



View of Room 115, location for Sample 24026028.



View of Room 116, location for Sample 24026124.

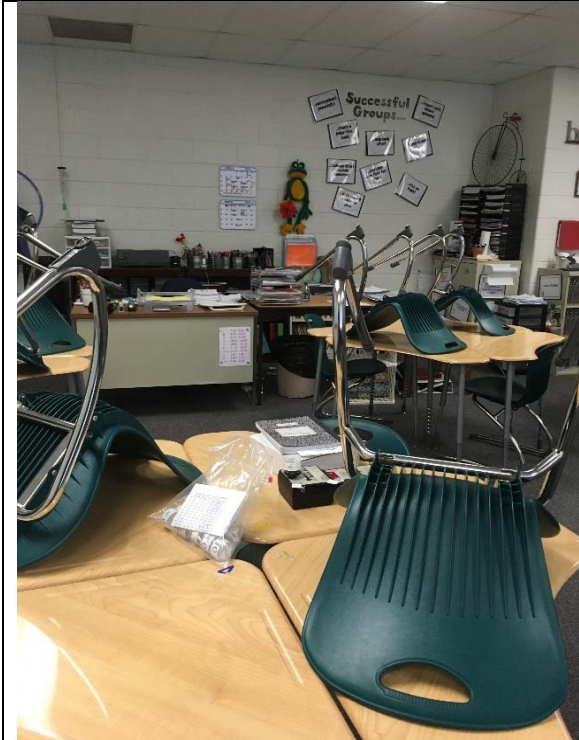


View of Room 117, location for Sample 24026009.



View of Room 109, location for Sample 24026034.

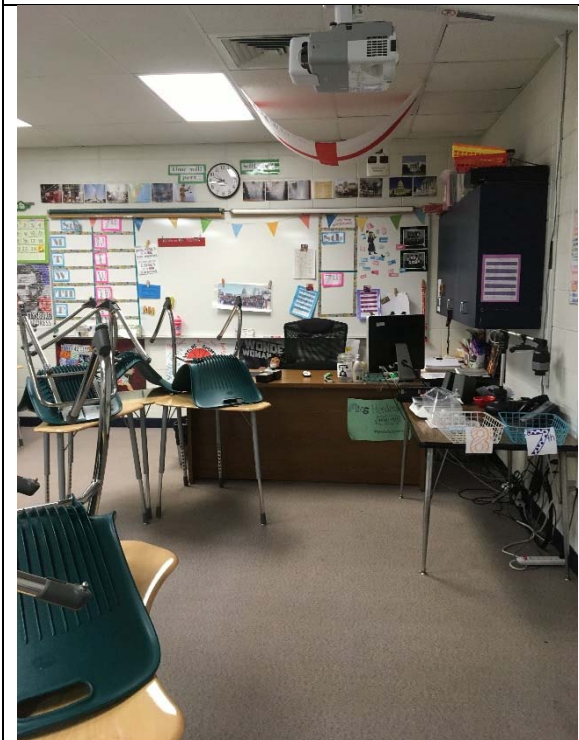
Performed for:
LINCOLNSHIRE-PRAIRIEVIEW SCHOOL DISTRICT #103
1370 N .Riverwoods Road
Lincolnshire, IL 60069
MEC Project #: 17-01-014-I.H.



View of Room 111, location for Sample 24026014.



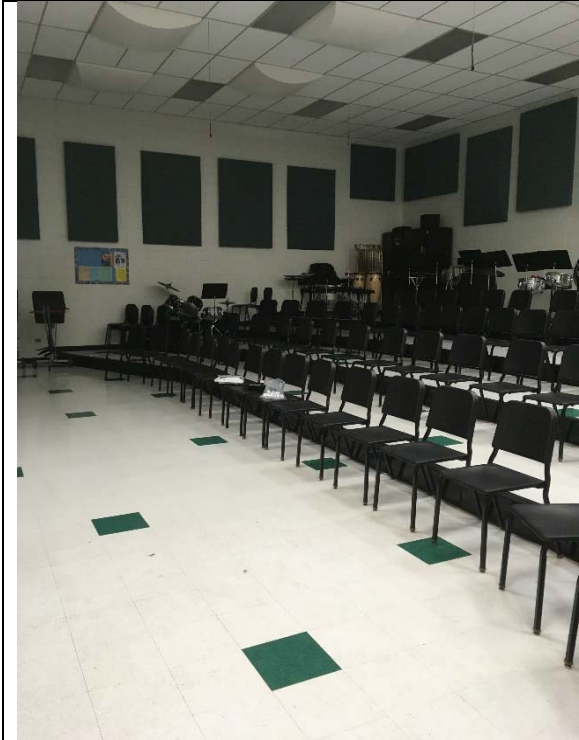
View of Room 112, location for Sample 24026018.



View of Room 113, location for Sample 24026122.



View of Room 122, location for Sample 24026020.



View of Room 125, location for Sample 24026012.



View of Room 128, location for Sample 24026019.



View of Room 131, location for Sample 24026021.



View of Room 132, location for Sample 24026132.

Performed for:
LINCOLNSHIRE-PRAIRIEVIEW SCHOOL DISTRICT #103
1370 N .Riverwoods Road
Lincolnshire, IL 60069
MEC Project #: 17-01-014-I.H.



*Alternate view outside Subject Building,
location for Sample 24026015.*

Performed for:
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1370 N .Riverwoods Road
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MEC Project #: 17-01-014-I.H.