



# IAQ Bioaerosol Analytical Report

## ERG Project Number: 10120

**Client Name:** Okemos Public School  
**Project Name:** Okemos Public Montessori

Date of Sample Collection: 11/27/2023 Report Date: 11/28/2023  
Date of Submittal: 11/27/2023 Analyst: Phillip A. Peterson  
Date of Analysis: 11/27/2023 Minimum Reporting Limit: 70 s/m<sup>3</sup>

**Sample #**  
**Sample Location**

	10120-01			10120-02			10120-03		
	Gym 10' from Small Storage Room			Field Blank			Hallway near temporary Main Office		
<b>Spores</b>	structures/ sample	s/m <sup>3</sup>	% trace scanned	structures/ sample	s/m <sup>3</sup>	% trace scanned	structures/ sample	s/m <sup>3</sup>	% trace scanned
<i>Alternaria</i>	ND			ND			ND		
Ascospore	5	70	20.3%	ND			20	300	20.3%
<i>Aspergillus/Penicillium</i>	ND			ND			15	200	20.3%
Basidiospore	ND			ND			ND		
<i>Botrytis</i>	ND			ND			ND		
<i>Chaetomium</i>	ND			ND			ND		
<i>Cladosporium</i>	ND			ND			ND		
<i>Curvularia</i>	ND			ND			ND		
<i>Drechslera/Bipolaris</i>	ND			ND			ND		
<i>Epicoccum</i>	ND			ND			ND		
<i>Erysiphae/Oidium</i>	ND			ND			ND		
<i>Fusarium</i>	ND			ND			5	70	20.3%
Hyphal Fragments	ND			ND			10	100	20.3%
<i>Nigrospora</i>	ND			ND			ND		
<i>Periconia/Myxomycete/Smut</i>	ND			ND			5	70	20.3%
<i>Ulocladium/Pithomyces</i>	ND			ND			5	70	20.3%
Rhizopus	ND			ND			ND		
<i>Stachybotrys</i>	ND			ND			ND		
<i>Stemphyllium</i>	ND			ND			ND		
<i>Torula</i>	ND			ND			ND		
Miscellaneous/Unidentified Spores	ND			ND			ND		
<b>Total</b>	<b>5</b>	<b>70</b>		<b>ND</b>			<b>60</b>	<b>810</b>	

**Pollen**  
Grass  
Tree  
Other/Unknown Pollen  
**Total**

Grass	ND	ND	ND
Tree	ND	ND	ND
Other/Unknown Pollen	ND	ND	ND
<b>Total</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

**Other Particulate**

Cellulose Fibers  
Fibrous Glass  
Synthetic Fibers  
Mineral Fibers  
Opaque Particles  
Insect Fragments  
**Total**  
\*Debris rating

Cellulose Fibers	5	70	20.3%	ND	ND	44	600	20.3%	
Fibrous Glass	ND			ND		54	720	20.3%	
Synthetic Fibers	ND			ND		54	720	20.3%	
Mineral Fibers	ND			ND		ND			
Opaque Particles	25	300	20.3%	5	70	20.3%	25	300	20.3%
Insect Fragments	ND			ND		ND			
<b>Total</b>	<b>30</b>	<b>370</b>		<b>5</b>	<b>70</b>	<b>177</b>	<b>2340</b>		
*Debris rating	<b>1</b>			<b>0</b>		<b>2</b>			

Notes:

All samples prepared and analyzed per the modified ASTM D7391-09.



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**Sample #**

**Sample Location**

**Spores**

*Alternaria*  
 Ascospore  
*Aspergillus/Penicillium*  
 Basidiospore  
*Botrytis*  
*Chaetomium*  
*Cladosporium*  
*Curvularia*  
*Drechslera/Bipolaris*  
*Epicoccum*  
*Erysiphae/Oidium*  
*Fusarium*  
 Hyphal Fragments  
*Nigrospora*  
*Periconia/Myxomycete/Smut*  
*Ulocladium/Pithomyces*  
 Rhizopus  
*Stachybotrys*  
*Stemphyllium*  
*Torula*  
 Miscellaneous/Unidentified Spores  
**Total**

10120-04			10120-5					
Hallway alcove near door			Hallway near Room 113					
structures/ sample	s/m <sup>3</sup>	% trace scanned	structures/ sample	s/m <sup>3</sup>	% trace scanned	structures/ sample	s/m <sup>3</sup>	% trace scanned
ND			ND					
15	200	20.3%	ND					
5	70	20.3%	30	400	20.3%			
ND			ND					
ND			ND					
ND			ND					
10	100	20.3%	10	100	20.3%			
ND			ND					
ND			ND					
ND			ND					
5	70	20.3%	ND					
ND			ND					
ND			ND					
ND			ND					
ND			ND					
ND			ND					
ND			ND					
10	100	20.3%	ND					
45	540		40	500				

**Pollen**

Grass  
 Tree  
 Other/Unknown Pollen  
**Total**

ND			ND					
ND			ND					
ND			ND					
ND			ND					

**Other Particulate**

Cellulose Fibers  
 Fibrous Glass  
 Synthetic Fibers  
 Mineral Fibers  
 Opaque Particles  
 Insect Fragments  
**Total**  
 \*Debris rating

163	2200	20.3%	44	600	20.3%			
ND			5	70	20.3%			
5	70	20.3%	25	300	20.3%			
ND			ND					
59	790	20.3%	20	300	20.3%			
ND			ND					
227	3060		94	1270				
2			1					

Notes:

All samples prepared and analyzed per the modified ASTM D7391-09.



### Comments

\*Debris rating (% obstructed by particulate matter ): 0= no particulate matter detected, 1= >0-5%, 2= 6%-25%, 3= 26%-76%, 4= 75%-90%, 5= >90%. Where debris rating =5, fungal/pollen/other particulate are reported as "present." For debris ratings 2-4, negative bias is expected. The degree of negative bias increases with the percent of the trace that is obstructed.

Samples were received in acceptable condition, unless otherwise indicated. Results relate only to items tested. Results are reported in units of structures per cubic meter of air (s/m<sup>3</sup>), except blank samples, where the actual number of observed particles are reported. Spore types listed without a count or other data indicate that the specific analyte was not detected during the course of sample analysis. Spores of the genera *Aspergillus* and *Penicillium* are categorized together due to their small size and spherical shape with few distinguishing characteristics. Other similar spores will be categorized as *Aspergillus/Penicillium* unless fruiting bodies allow more precise identifications.

ND= none detected (minimum of 20.3% trace scanned) unless otherwise reported .

Minimum Reporting Limit represents the lowest calculated limit in this report.

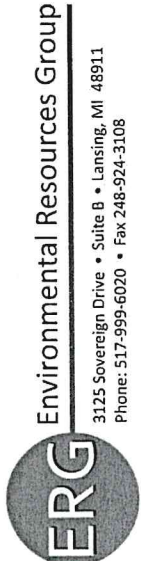
This report shall not be reproduced, except in full, without written approval of the laboratory.

Flow Rate is in liters per minute. Time is reported in minutes.

The enclosed data from Environmental Resources Group, LLC (ERG) is for sample(s) collected by our client. The client bears all risk relative to the use of this data, including any course of action or inaction. Further, ERG asserts that the data pertains only to the submitted sample(s). ERG makes no representation or guarantee about the source of the material analyzed, the suitability of the sample size, sample frequency or sample distribution, or the relationship of the submitted sample(s) to the area sampled.

Approved Signatory: \_\_\_\_\_ 

Date: 11/28/2023



3125 Sovereign Drive • Suite B • Lansing, MI 48911  
Phone: 517-999-6020 • Fax 248-924-3108

Client Name: <u>Okemos Public Schools</u>			Matrix Code				
Contact Person: <u>K. Peterson</u>			S	Soil	Ground Water		
Project Name/ Number: <u>10120</u>			A	Air	Surface Water		
Project Location: <u>Okemos Public Montessori at Central Okemos, MI</u>			O	Oil	Wastewater		
Email Distribution List: <u>Kristin.peterson@ergcorp.net</u>			B	Bulks	Other: Specify		
Phone No.:							
Purchase Order No.:							
Date	Time	Sample #	Client Sample Descriptor	# OF CONTAINERS	PARAMETERS	Matrix Code	Remarks:
<u>11/27/23</u>		<u>-01</u>	<u>Gym 10' from small storage room</u>	<u>1</u>			<u>79L - 5 min @ 15.8L</u>
		<u>-02</u>	<u>Field Blank</u>	<u>1</u>			<u>OL</u>
		<u>-03</u>	<u>Hallway near temporary mess</u>	<u>1</u>			<u>79L</u>
		<u>-04</u>	<u>Hallway alcove near door</u>	<u>1</u>			<u>79L</u>
		<u>-05</u>	<u>Hallway near Restrooms</u>	<u>1</u>			<u>79L</u>
Samples received in acceptable condition <input checked="" type="checkbox"/>							
Comments:							
Sampled/Relinquished By: <u>Stu [Signature]</u>			Date/Time: <u>11/27/23 @ 11:28</u>		Received By: <u>Phil [Signature]</u>		
Relinquished By:			Date/Time:		Received By:		
Relinquished By:			Date/Time:		Received By Laboratory:		
Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY				LAB USE ONLY			
+ Same day		1 bus. day		3 bus. days		4 bus. days	
ERG project number: <u>19120</u>		Temperature upon receipt at Lab: <u>N/A</u>					
Other (specify time/date requirement):							
Please see back for terms and conditions							