

REPORT OF FINDINGS

INDOOR AIR QUALITY STUDY
CRYSTAL LAKE ELEMENTARY SCHOOL DISTRICT 47
CANTERBURY ELEMENTARY SCHOOL
875 CANTERBURY DRIVE
CRYSTAL LAKE, IL 60014

Prepared by

PEPPER ENVIRONMENTAL TECHNOLOGIES, INC.
411 Lake Zurich Road, Barrington, Illinois 60010

July 27, 2023

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INTRODUCTION

Brief overview of the consultant's responsibilities:

Pepper Environmental Technologies, Inc. (PET) was contracted by Crystal Lake Elementary School District 47 representative, Mr. David Schuh, to perform an indoor air quality test within specific rooms located in Canterbury Elementary School, located at 875 Canterbury Dr., Crystal Lake, Illinois 60014.

Date air sampling performed:

June 2-5 and July 13, 2023

Weather conditions for June 2, 2023

Warm. Mild Wind. Approximately 88 degrees Fahrenheit (F) around noon.

Name of Crystal Lake Elementary School District 47 point of contact.

Mr. David Schuh
Director of Operations
Operations Center
221 Liberty Rd.
Crystal Lake, Illinois 60014
Phone (815) 788-5061

Name and address of laboratory:

EMSL Analytical Inc.
4140 Litt Drive
Hillside, Illinois 60162
Phone: (773) 313-0099

TEST PERFORMED/SCOPE OF WORK

Air sampling for mold spores using a high-volume stationary pump and “Air-O-Cell” cassettes. Delmhorst direct read for moisture in porous surfaces. IAQ 8670 direct read for carbon dioxide (CO₂), carbon monoxide (CO), relative humidity (%RH), and temperature (T). All instruments calibrated before use.

Substances, Media types, Methods of Analysis

Analysis	Media Type	Method/Model
Mold Spores in Air	Air-O-Cell Cassettes	Micro-SOP-201/Zefon Bio Pump Plus
Moisture	Direct Read	Delmhorst BD-2100
Carbon Dioxide	Direct Read	TSI Model 8762
Carbon Monoxide	Direct Read	TSI Model 8762
Temperature	Direct Read	TSI Model 8762
Relative Humidity	Direct Read	TSI Model 8762

Summary of Findings, Number of Air Samples, Locations

Analysis	Number	Location(s)
Mold Spores in Air	9	Room 11, 12, 13, 14, Centrum 200, Office 4A, Office 4B & Outdoors for Comparison
Moisture	Readings on walls and floors and or carpets	Room 11, 12, 13, 14, Centrum 200, Office 4A, Office 4B
Carbon Dioxide Carbon Monoxide Temperature Relative Humidity	Multiple reading in 7 interior locations on multiple days	Room 11, 12, 13, 14, Centrum 200, Office 4A, Office 4B

SUMMARY OF MOLD AIR SAMPLING RESULTS

Please find the attached mold air sample laboratory report. Mold air samples were collected in 7 indoor target locations and two (2) outdoor locations around the building on July 13, 2023. The test was conducted after carpeting within the target locations were steam cleaned by others.

The indoor sampling locations included:

- Upper Northeast Pod
 - Rooms 11, 12, 13, 14, Centrum 200, Office 4A and Office 4

The outdoor sampling locations included:

- Two (2) Outdoors:
 - North Side of Building and South Side of Building

Currently there are no federal, state, or local standards regulating exposure to molds. In lieu of any standard, samples are usually evaluated in one of two ways. The first is by comparing the total airborne concentration of spores found inside the building to those found outside the building. Typically, inside concentrations are less than outdoor concentrations. If the opposite occurs, it may be an indication of a concern. The second method is to evaluate the genus/species of the mold spores identified. In general, airborne mold specie-types identified inside a building should be similar to those found outside the building. If significant variations are observed, it may also be an indication of a potential mold problem.

In the case of the indoor air samples, mold spore concentrations found on the seven (7) samples ranged from 40 to 590 spores per square millimeter (sp/m³). All mold specie-types found indoors were also found outdoors during the time of the study. The indoor average was 261.4 sp/m³.

Outdoor air sample results ranged from 30,030 to 48,460 sp/m³ with an average outdoor concentration of 39,245 sp/m³. The outdoor average concentrations measured during this study were determined to be 150 times higher than the indoor average.

No sampling equipment malfunctions were noted during the study. Additionally, no out of place odors were noted at the time of the study. Mold spore concentrations found indoors were lower than outdoor concentrations at the time of the study. Additionally, mold specie-types found indoors were also found on the outdoor samples at the time of the study.

SUMMARY OF DIRECT READ FINDINGS

Please find the attached tables containing the direct read findings taken at Canterbury Elementary School in Crystal Lake, Illinois from June 2nd through June 5th, 2023.

The findings through the direct reading instrument indicate the indoor testing areas were slightly above target guidelines for temperature. Humidity levels ranged from within range to slightly above recommended target levels by a small margin. Porous surface moisture readings indicated “dry” conditions. The direct reading instrument suggests that CO₂ and CO are not likely pollutant sources in the areas tested. Synopses of the findings per analytical measurement are as follows:

Moisture Readings

Moisture readings were measured on porous walls and floors in each target indoor location. Moisture readings ranged from 0.0 to 1.1, indicating “dry” conditions.

Thermal Comfort

The temperature measured during the test periods ranged between 70.8 to 78.1. American Society of Heating and Air Conditioning (ASHRAE) guidelines for indoor air in a commercial building range from 68° to 74 ° F. A majority of the temperature readings were slightly above ASHRAE recommended levels. Please reference the attached direct read table for specific measurements.

Relative Humidity

ASHRAE target guidelines for relative humidity are typically 30 – 60 % for indoor air in a commercial building. Recommendations for an individual’s comfort level may be acceptable from a low of 25% to a high of 80% relative humidity. The majority of humidity readings found in the indoor locations were within ASHRAE target levels, though readings on June 2nd ranged from 54 to 64%, which is slightly above the recommended range. Outdoor humidity levels on June 2nd may have contributed to the elevated indoor readings. Please reference the attached direct read table for specific measurements.

Carbon Dioxide

The testing recorded that the maximum Carbon Dioxide (CO₂) concentration measured throughout the target indoor locations was 460 parts per million (ppm). The maximum concentration was below the ASHRAE action Level of 1,000 ppm, which is a generic guideline for acceptable IAQ. Please reference the attached direct read table for specific measurements.

Carbon Monoxide

The data from the continuous monitor showed that the Carbon Monoxide (CO) concentration indoors ranged from less than 0.5 ppm to 1.3 ppm. Target levels recommend that indoor CO levels be less than 9.0 ppm. Result during this study suggest that the potential health risk from CO is not a likely pollutant source in all areas tested indoors.

CONCLUSIONS AND RECOMMENDATIONS

Based on our air monitoring results and data, we find that the indoor target locations monitored during this study appear to be safe for occupancy and are without elevated levels of airborne irritants with regards to the constituents measured during this study. Based on the wide range of sensitivities that vary amongst occupants, PET recommends that Crystal Lake School District 47 continues:

- Using “green” cleaning agents to perform the daily housekeeping activities.
- Keeping exterior doors closed whenever possible.
- Monitoring ceilings and walls for signs of water intrusion.
- Regularly changing filters on heating, ventilation and air conditioning equipment.

CONFIDENTIALITY

Pepper Environmental Technologies, Inc. has treated all aspects of this study as strictly confidential.

This study was not intended to include every health hazard or exposure that may be present in the building; only those items specifically addressed in the report were evaluated. Results are based on conditions observed during our survey. Substantial changes in conditions, methods of operation, or materials used can alter the outcome of an environmental survey. If you have any questions concerning this study, please let us know.

Pepper Environmental Technologies Inc. has conducted this study in the interest of Crystal Lake Elementary School District 47 to assist in preventing occupant illness and in meeting environmental obligations. In this respect, we hope the results of this study are useful.

Respectfully submitted,

Pepper Environmental Technologies, Inc.



Steve Soloma
Senior Project Manager

Forms Attached:
EMSL Laboratory Report, Direct Read Findings Tables

APPENDIX

Mold Laboratory Results & Direct Read Tables



EMSL Analytical, Inc.

4140 Litt Drive Hillside, IL 60162
Tel/Fax: (773) 313-0099 / (773) 313-0139
<http://www.EMSL.com / chicagolab@emsl.com>

EMSL Order: 262306119
Customer ID: PEPE25
Customer PO:
Project ID:

Attention: Steve Soloma
Pepper Environmental
411 Lake Zurich Road
Barrington, IL 60010

Phone: (630) 710-3834
Fax:
Collected Date: 07/13/2023
Received Date: 07/13/2023 10:55 AM
Analyzed Date: 07/19/2023

Project: 2200797/ CANTERBURY ES. IAQ

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	262306119-0001			262306119-0002			262306119-0003		
Client Sample ID:	CC-1			CC-2			CC-3		
Volume (L):	75			75			75		
Sample Location:	ROOM 11			ROOM 12			ROOM 13		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	4	200	100	2	90	20.9	2	90	100
Basidiospores	-	-	-	6	300	69.8	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	1	40	9.3	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	4	200	100	9	430	100	2	90	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.


Andrei Poluchowicz, Microbiology Technical Manager
or other Approved Signatory

No discernable field blank was submitted with this group of samples.

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. *** Denotes particles found at 300X. *- Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.
Samples analyzed by EMSL Analytical, Inc. Hillside, IL AIHA LAP, LLC-EMLAP Accredited #102992

Initial report from: 07/19/2023 09:04 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



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Project: 2200797/ CANTERBURY ES. IAQ

Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	262306119-0004 CC-4 75 ROOM 14			262306119-0005 CC-5 75 SCS C200			262306119-0006 CC-6 75 OFC 4B			
	Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	1	40	100	4	200	33.9	6	300	78.9	
Basidiospores	-	-	-	8	300	50.8	1	40	10.5	
Bipolaris++	-	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	2	90	15.3	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	1	40	10.5	
Zygomycetes	-	-	-	-	-	-	-	-	-	-
Total Fungi	1	40	100	14	590	100	8	380	100	
Hyphal Fragment	-	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	-
Skin Fragments (1-4)	-	2	-	-	3	-	-	2	-	-
Fibrous Particulate (1-4)	-	2	-	-	2	-	-	1	-	-
Background (1-5)	-	1	-	-	1	-	-	1	-	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.



Andrei Poluchowicz, Microbiology Technical Manager
or other Approved Signatory

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Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	262306119-0007 CC-7 75 OFC. 4A			262306119-0008 CC-8 75 OUTDOORS NORTH SIDE OF SCHOOL			262306119-0009 CC-9 75 OUTDOORS SOUTH SIDE OF SCHOOL		
	Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³
Alternaria (Ullocladium)	-	-	-	6	300	0.6	-	-	-
Ascospores	-	-	-	56	2400	5	73	3200	10.7
Aspergillus/Penicillium	3	100	100	2	90	0.2	13	570	1.9
Basidiospores	-	-	-	200	8730	18	455	19900	66.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	842	36700	75.7	132	5760	19.2
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	4	200	0.4	6	300	1
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	1	40	0.1	8	300	1
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	3	100	100	1111	48460	100	687	30030	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	1*	10*	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	3	-	-	2	-	-	1	-
Fibrous Particulate (1-4)	-	2	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.



Andrei Poluchowicz, Microbiology Technical Manager
or other Approved Signatory

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COMFORT FACTOR MEASUREMENTS
CRYSTAL LAKE ELEMENTARY SCHOOL DISTRICT 47
CANTERBURY ELEMENTARY SCHOOL
CRYSTAL LAKE, ILLINOIS
JUNE 2 - JUNE 5, 2023



LOCATION	DATE AND TIME	TEMPERATURE (°F)	RELATIVE HUMIDITY (%)	CARBON DIOXIDE (ppm)	CARBON MONOXIDE (ppm)
11	6/2/23 ~8AM	74	64	0.7	404
	6/2/23 ~12:00PM	75	64	0.6	450
	6/5/23 ~8:00AM	71	44	0.7	388
	6/5/23 ~10:00AM	73	43	0.4	401
	6/5/23 ~12:00PM	75	41	0.3	437
12	6/2/23 ~8AM	76	57	0.6	403
	6/2/23 ~12:00PM	76	60	0.6	392
	6/5/23 ~8:00AM	71	43	0.7	412
	6/5/23 ~10:00AM	73	42	0.8	419
	6/5/23 ~12:00PM	75	40	1.0	401
13	6/2/23 ~8AM	76	58	0.6	402
	6/2/23 ~12:00PM	77	57	0.6	393
	6/5/23 ~8:00AM	72	43	0.6	387
	6/5/23 ~10:00AM	73	41	0.7	404
	6/5/23 ~12:00PM	75	39	0.7	407
14	6/2/23 ~8AM	75	61	0.5	460
	6/2/23 ~12:00PM	78	55	0.6	394
	6/5/23 ~8:00AM	72	42	0.7	399
	6/5/23 ~10:00AM	73	41	0.6	370
	6/5/23 ~12:00PM	75	39	0.6	389
C200	6/2/23 ~8AM	77	58	0.6	410
	6/2/23 ~12:00PM	78	55	0.6	410
	6/5/23 ~8:00AM	72	42	0.7	396
	6/5/23 ~10:00AM	73	41	0.7	410
	6/5/23 ~12:00PM	75	39	0.6	448
4B North Office Pod C200	6/2/23 ~8AM	77	56	0.6	420
	6/2/23 ~12:00PM	78	54	0.6	402
	6/5/23 ~8:00AM	72	42	0.7	436
	6/5/23 ~10:00AM	73	40	0.6	423
	6/5/23 ~12:00PM	75	39	0.6	405

COMFORT FACTOR MEASUREMENTS
CRYSTAL LAKE ELEMENTARY SCHOOL DISTRICT 47
CANTERBURY ELEMENTARY SCHOOL
CRYSTAL LAKE, ILLINOIS
JUNE 2 - JUNE 5, 2023



LOCATION	DATE AND TIME	TEMPERATURE (°F)	RELATIVE HUMIDITY (%)	CARBON DIOXIDE (ppm)	CARBON MONOXIDE (ppm)
4A South Office Pod C200	6/2/23 ~8AM	77	56	0.6	421
	6/2/23 ~12:00PM	78	54	0.6	413
	6/5/23 ~8:00AM	72	42	0.7	397
	6/5/23 ~10:00AM	73	41	0.6	410
	6/5/23 ~12:00PM	75	40	0.6	404

ppm = parts per million