

August 19, 2026

Ms. Lisa Blackwell
Assistant Director of Facilities
Center Grove Community School Corporation
3653 West Whiteland Road
Bargersville, Indiana 46106

**RE: INDOOR AIR QUALITY ASSESSMENT
NORTH GROVE ELEMENTARY SCHOOL
ALLIANCE PROJECT NUMBER NCG17I02**

Dear Ms. Blackwell:

Alliance Environmental Group (Alliance) performed an indoor air quality assessment in Room 1 to Room 9 at North Grove Elementary School on August 18, 2026 in response about a concern

Non-viable air samples were collected to provide information regarding airborne particulates at the time of sampling. Samples were collected using Air-O-Cell cassettes, which are aerodynamically designed spore traps. On August 18, 2026, samples were collected in Rooms 1 to 9. An outdoor sample was also collected for comparison of ambient levels of fungi. The Air-O-Cell cassettes capture airborne particulates, viable or non-viable, and allow for a rapid identification of fungal spores. These samples were collected for five minutes at a flow rate of 15 liters per minute. A total volume of 75 liters of air was collected.

In general, the process for evaluating Air-O-Cell results is to compare indoor air samples with an outdoor air sample to determine ambient levels of fungi in the environment. If the total indoor spore count (in spores per cubic meter, or spores/m³) of fungi is less than the total ambient spores/m³ outdoors, the air quality is acceptable with regards to non-viable fungi. Also, if the types of fungi identified indoors are at lower levels than the concentrations outdoors, the air quality is acceptable with regards to non-viable fungi. Air-O-Cell samples were submitted to EMSL Analytical in Indianapolis, Indiana for analysis under standard chain-of-custody protocols.

There are no regulations for airborne fungal spores. In general, interior spore counts less than 1,000 spores/m³ are considered acceptable. Spore counts ranging from 1,000 spores/m³ to 5,000 spores/m³ suggest action may be warranted, depending on seasonal fungal spore levels, as determined by the outdoor sample. Spore counts exceeding 5,000 spores/m³ warrant immediate action.

The results of the samples are as follows:

Sample #	Location	Total Spores/m³	Fungi Exceeding Outdoor Levels	Fungi Not Found Outdoors
001	Room 1	1450	Aspergillus/ Penicillium	--
002	Room 2	10960	Aspergillus/ Penicillium	--
003	Room 3	3450	Aspergillus/ Penicillium	(Epicoccum)
004	Room 4	420	Aspergillus/ Penicillium	--
005	Room 5	200	--	--
006	Room 6	130	--	Stachybotrys/ Memnoniella
007	Room 7	60	--	Pithomyces
008	Room 8	330	--	--
009	Room 9	50	--	--
010	Outdoors	75510	--	--

Fungi in (parenthesis) had a raw spore count of a single spore not found outside.

AIR QUALITY

Data for temperature, relative humidity, carbon dioxide (CO₂) and carbon monoxide (CO)] was acquired using a TSI Model 7545 indoor air quality meter.

General indoor air quality data is summarized in the following table:

<i>Location</i>	<i>Temp (°F)</i>	<i>RH (%)</i>	<i>CO₂ (ppm)</i>	<i>CO (ppm)</i>
Room 1	72.6	66.2	512	0.0
Room 2	70.2	71.3	520	0.0
Room 3	68.4	66.1	523	0.0
Room 4	68.8	67.2	531	0.0
Room 5	62.9	62.4	549	0.0
Room 6	69.7	66.6	578	0.0
Room 7	69.2	68.0	529	0.0
Room 8	70.4	64.4	535	0.0
Room 9	70.1	63.0	533	0.0
Outside	66.6	76.7	558	0.0
Regulatory Limits	68 - 78	< 65%	outside + 700	< 50

Most general indoor air quality parameters were within acceptable limits. At the time of inspection, the Room 5 was below the lower bound of regulatory temperature range.

GENERAL OBSERVATIONS

Rooms 1 through 9 were generally observed to be clean and orderly at the time of inspection. Some accumulated dust was noted within the HVAC closet. No visible suspect fungal growth was identified during the inspection. A period of possible high humidity was reported and may have contributed to the slight mildew odor observed by the inspector.

Laboratory results indicated elevated fungal spore concentrations in Rooms 1, 2, and 3, suggesting that a potential source of fungal growth may be present within these areas. Laboratory analysis also identified *Stachybotrys/Memnoniella* in Room 6.

RECOMMENDATIONS

Alliance recommends cleaning **Rooms 1, 2, 3, and 6**. The recommended cleaning should include:

- Carpet cleaning using hot water extraction.
- Removal of accumulated dust from the mechanical/HVAC closets.
- Cleaning of the HVAC coils and drain pans as needed.
- Replacement of HVAC filters, as appropriate.
- Following cleaning, use of a HEPA air filtration device in the affected rooms for a minimum of 24 to 48-hours to reduce airborne fungal spores.

These measures are recommended to address potential sources of fungal spores and reduce airborne concentrations within the affected areas. Alliance recommends follow up investigation to ensure elimination of fungal reservoir.

Thank you for employing our professional indoor air quality program services at North Grove Elementary School. We appreciate the opportunity to serve Center Grove Community School Corporation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tyler Stubbs".

Tyler Stubbs
Environmental Technician

Attachments