



December 7, 2023

Transylvania County
155 Public Safety Way
Brevard, NC 28712
Attn: David McNeill, Assistant County Manager

Subject: Mold Assessment
Rosman Elementary School
Rosman, NC
Project Number: FDG231120

Mr. McNeill:

At your request, Fleetwood Daniels Group, LLC (FDG) performed an indoor air quality assessment at the above referenced project location on November 29, 2023. The assessment included collection of mold spore trap air samples throughout the school buildings. Sampling was conducted under the recommendations of FDG and was under the direction of the client representative. Additionally, FDG collected an exterior air sample to use for comparative analysis. The sample locations are identified on the attached drawing.

Sampling was requested in order to assess the general conditions of the building as it relates to mold. The air sampling was performed by Mrs. Suzanne Hinson and Mr. Clay Hinson, Industrial Hygienists with FDG.

Results - Sampling & Analysis

AIRBORNE MOLD SAMPLES

SAMPLE NUMBER	LOCATON	LABORATORY RESULTS Total Mold
RE-1	Exterior	3450 count/m ³
RE-2	Interior – Front Office Area	470 count/m ³
RE-3	Interior – Room 7 Pod Area	2980 count/m ³
RE-4	Interior – Corridor at Gym	1180 count/m ³
RE-5	Interior – Room 15 Pod Area	1490 count/m ³
RE-6	Interior – Cafeteria	627 count/m ³
RE-7	Interior – Library	470 count/m ³

Count/m³ = spore count per cubic meter of air

Conclusions

The analysis of the air samples collected show total spore counts on the interior samples collected were lower than those on the exterior of the building.

Analysis shows that the spore types were generally consistent with those found on the exterior of the building. Common plant molds were present on the interior samples collected throughout the

building. These common exterior genera of molds and are typically found in soils and decaying plant matter, but can also grow indoors given the right conditions. Given the right conditions, indoor growth can be widespread on damp substrates as some will grow indoors at low temperatures.

Sample analysis indicates low counts of *Aspergillus/Penicillium-like* spores on the sample collected from the Corridor at the Gym that were not identified on the exterior sample. *Aspergillus/Penicillium-like* spores are typically indicators of water damaged building materials and are not commonly found naturally outside. These types of mold have been shown to have the possibility of causing respiratory issues especially in people with allergies or immune deficiencies when found in indoor areas. Given the low counts it is likely that they are residual, FDG recommends observation of these areas to ensure that there is not a water loss contributing that could cause future indoor air quality concerns.

In general, all areas of potential moisture intrusion should be addressed and corrected prior to remediation efforts where recommended. All areas should have HVAC units that provide an indoor environment with temperature and humidity levels in accordance with ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) Standards. In the future all areas with visibly water damaged materials should be remediated as discovered to prevent an air quality concern in the future. Ways to reduce spore counts include, but are not limited to, HEPA air filtration, HEPA vacuum cleaning and/or surface cleaning with anti-microbial serum.

Observations, findings, results, and conclusions are limited to those conditions apparent at the time of the site visit. It should not be construed that actions taken as a result of this work will achieve complete compliance with every regulatory standard nor prevent every possible accident or loss. Neither should it be considered that any recommendations noted are the only possible actions to be taken.

QUALIFICATIONS

This report summarizes FDG's evaluation of the conditions observed at the subject building during the course of the survey. Our findings are based upon our observations at the building and analyses of the samples obtained at the time of this survey. Asbestos-containing materials may exist in the building, if materials are to be disturbed they should be tested for the presence of asbestos prior to disturbing. Any conditions discovered which deviate from the data contained in this report should be presented for our evaluation.

Attached with this report you will find the laboratory analytical results for each sample collected will be attached.

Fleetwood Daniels Group, L.L.C. is pleased to have provided our professional services for this project. If you have any questions or comments, please do not hesitate to call at (828) 400-1509.

Sincerely,
FLEETWOOD DANIELS GROUP, L.L.C.



Suzanne Hinson
Principal

Attachments: Laboratory Analytical Reports

Laboratory Analytical Reports

