PathCon® Laboratories

November 8, 2013
Final Report V2534

Stephen Ellis
Terracon
3534 Rutherford Road
Taylors, SC 29687

Re: Clemson House

Dear Mr. Ellis,

The analysis of environmental samples submitted to PathCon Laboratories (see Table 1) has been completed. Samples were received and analysis initiated on October 25, 2013. Samples received in acceptable condition were analyzed by the viable culture method and reported herein. Results are presented in attached table(s). Results in this report are based on samples submitted by the on-site investigator.

The purpose of this report is to identify and quantify microorganisms from collected samples at the time they are submitted. It is not the intent of this report to make any suggestions or associations concerning potential health effects of building occupants, nor to suggest any remediation procedures. There are no governmental regulations concerning permissible numbers of fungi and bacteria in environmental samples.

Your invoice will follow under separate cover. Thank you for your business.

Sincerely,

PATHOGEN CONTROL ASSOCIATES, INC.
By:

Kimberly H. Kirkland, M.P.H.
Director of Laboratory Services

270 Scientific Drive Suite 3 Norcross, Georgia 30092
Phone: 770-446-0540 Fax: 770-446-0610

Table 1. Identification of Air Sampling Sites

Site No.	Description
1	Rm 302
2	Outdoors
3	Blank

Table 2. Summary of Viable Counts Per Cubic Meter of Air[1,2]

Site	Fungi	Bacteria Incubated at Room Temperature
1	377	377
2	1131	177
3 Blank	<12	<12

[1] These counts are based on an Andersen sampler flow rate of 28.3 liters per minute and a sample exposure time of 3 minutes.

[2] Limits of the test were approximately 12 colony forming units per cubic meter of air.

Table 3. Concentration of Fungi in Air Samples

Sample	Concentration[1,2,3]	Genera Prevalence[4,5]
1	377	Cladosporium (15/32) Sterile Mycelia (3/32) Penicillium 1 (3/32) Penicillium 2 (3/32) Penicillium 3 (2/32) Oidiodendron (1/32) Penicillium 4 (1/32) Penicillium 5 (1/32) Penicillium 6 (1/32) Oedocephalum (1/32) Rhodotorula (yeast) (1/32)
2	1131	Cladosporium (40/96) Sterile Mycelia (18/96) Penicillium 1 (11/96) Tritirachium-like (8/96) Unidentified fungus (7/96) Penicillium 2 (3/96) Rhodotorula (yeast) (3/96) Penicillium 3 (2/96) Acremonium-like (1/96) Pithomyces-like (1/96)
3 Blank	<12	

[1] Colony forming units on Rose Bengal Agar media per cubic meter of air.

[2] These counts are based on an Andersen sampler flow rate of 28.3 liters per minute and a sample exposure time of 3 minutes.

[3] Limits of the test were approximately 12 colony forming units per cubic meter of air.

[4] Fungi listed in descending order of occurrence.

[5] ( ) = Taxon Count/Total Count.

Table 4. Analysis of Air Samples for Bacteria on R2Ac Agar Incubated at Room Temperature[1]

Sample	Concentration[2,3,4]	Genera Prevalence[5,6]
1	377	Micrococci (14/32) Micrococci (6/32) Flavobacterium (4/32)
2	177	Aeromonas-like (3/15) Micrococci (3/15) Pseudomonas-like, not aeruginosa (3/15)
3 Blank	<12	

[1] R2Ac Agar is designed to culture environmental bacteria; however, this medium may also support the growth of human commensal bacteria.

[2] Colony forming units on R2Ac Agar media per cubic meter of air.

[3] These counts are based on an Andersen sampler flow rate of 28.3 liters per minute and a sample exposure time of 3 minutes.

[4] Limits of the test were approximately 12 colony forming units per cubic meter of air.

[5] Bacteria listed in descending order of occurrence.

[6] ( ) = Taxon Count/Total Count.