



Environmental Consulting Services

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January 27, 2024

City of Richmond Public Schools

Department of Facility Service
1461 A Commerce Road
Richmond, Virginia 23224

ATTN.: Mr. Ronald Hathaway, Jr.
Director of Facilities

RE: Moisture & Mold Assessment Report
Fairfield Court Elementary School – All Rooms
2510 Phaup Street
Richmond, Virginia 23223
FEI Project Number: FEI-23MI637

Dear Mr. Hathaway:

In accordance with your request, a Moisture & Mold Assessment has been performed at the above reference academic facility. France Environmental, Inc. (FEI) is providing this letter report summarizing our findings and sample results from the fieldwork conducted on November 22, 2023. The investigation was performed by FEI Industrial Hygienists, Mr. Andrew H. Baird, Mr. Keith Baird and Mr. James W. Morris. An additional site visit was performed on December 29, 2023 by FEI Industrial Hygienist Mr. Micheal D. Allshouse to perform confirmation sampling of areas that were inconclusive after the initial round of air sampling.

The scope of this assessment was to test for identifiable conditions, if any, that may be affecting the quality of the air in the subject space. The assessment included a visual inspection and air sampling for fungi (mold). At the client's request, air samples were collected from each accessible classroom, office, and academic space within the building. Please find attached with this letter the Laboratory Results; Sample Location Drawings; Photographs of Site Conditions; and Fungal Types/Groups Chart for the air sampling performed.

VISUAL OBSERVATIONS:

France Environmental, Inc. performed a visual assessment of the interior areas of the subject spaces. The visual inspection was focused on potential indicators of Indoor Air Quality (IAQ) problems and specifically included areas of visible water damage and visible mold growth. Specific items of interest observed during the inspection are described below:

- Moisture and/or damaged stained lay-in ceiling tiles were observed throughout the building. Staining appears to be from HVAC Duct/Diffuser condensation and past or current pipe and/or roof leaks.
- Ceiling HVAC Diffusers/Ceiling Units and associated ceiling tiles are showing a light to moderate dust load.
- Visible mold growth was observed on A/C Units and/or diffuser vents in the following locations: 1st Floor – Rooms 101A, 101,102, 103, 104, Media Center, 107, 108, 109, 111,

and 115.

- Suspect mold growth was observed on the interior window glaze in Office 3.

TOTAL FUNGAL AIR SAMPLING:

On November 22, 2023, FEI collected a total of forty-five (45) airborne fungal (mold) spore samples from the following areas:

- All Classrooms, Offices, Common Areas, Kitchen, Gym, Multi-Purpose Room, Break Rooms, and Media Center.
- Two (2) exterior samples were collected outside the building for comparison purposes. These samples were collected throughout the day and included a pre-sample before interior air samples were collected, and a post interior air sample.

The air samples were collected at an airflow rate of five (5) liters per minute for five (5) minutes totaling twenty-five (25) liters of air.

The results of the fungi samples collected and analyzed are as follows:

- The results of the air samples collected **did not** indicate airborne fungal amplification when compared to the outside building samples at the time of the air sampling. There were a few mold air samples >12,000 of **Basidiospores** located in: Kitchen, Main Office, Nurse's Office, Main Office #1-#2 and 108 and the outside building samples showing exactly the same. **Aspergillus/Penicillium sp.** was found elevated in Room 102 when compared to the outside building samples. FEI returned to the site to collect additional confirmation samples from the areas mentioned above. *The additional samples confirmed there was no fungal amplification occurring in these areas. (Please Refer To "Mold Air Cassette Sample Analysis Laboratory Results" Appendix)*

Microbiological interpretation of sample results poses a challenge for the health and safety professionals as there are at present no strict numerical guidelines which are appropriate for assessing whether microbial levels inside buildings are "safe" or "normal" spore levels. There are currently no regulatory standards for evaluating airborne fungi concentrations for this or any other facility. As these organisms are present everywhere the standard of care is to perform a risk-based analysis. In general, industry standards effective interpretation is based on the comparison of indoor and outdoor samples. In "Clean" buildings, total airborne spore concentrations are generally less than outdoor spore concentrations with similar genera identified within each environment. The presence or absence of a few non-moisture indicator genera in small numbers (<1,000 Counts/M³) identified within interior building areas should not be considered abnormal. However, the presence of moisture indicator mold spores (**Chaetomium; Stachybotrys; Rhodotorula; Trichoderma; and Scopulariopsis**) in any significant amounts would indicate chronic moisture intrusion issues and confirmation that molds have colonized and are amplifying within the building. **Stachybotrys** was found in trace amounts in the Main Office #3. This room was included in the second round of air sampling and it did not indicate fungal amplification was occurring. This Office did have the visible mold growth on the interior window glaze.

TOTAL FUNGAL SURFACE SAMPLING:

FEI collected a total of two (2) direct tape lift surface samples from the following areas:

- One (1) sample was collected from the black growth found on the Window AC Vent in Room 101
- One (1) sample was collected from the black growth on the Ceiling AC Vent in Room 104

The direct microscopic examination of the surface samples determined whether or not fungi is growing and/or still present on the surfaces sampled, and if so, what kinds of fungi was present.

The results of the fungi surface samples collected and analyzed are as follows:

- The results of the surface **sample T1** collected from the black growth found on the Window AC Vent in Room 101 indicated the presence of ***Cladosporium sp.*** The estimated number of spores on the sample for this species was described by the laboratory as “Heavy”, which the laboratory defines as 200 or more spores observed. Definite Mold Growth! (*Please Refer To “Surface Sample Analysis Laboratory Results” Appendix*)
- The results of the surface **sample T2** collected from the black growth on the Ceiling AC Vent in Room 104 indicated the presence of ***Cladosporium sp.*** The estimated number of spores on the sample for this species was described by the laboratory as “Heavy”, which the laboratory defines as 200 or more spores observed. Definite Mold Growth! (*Please Refer To “Surface Sample Analysis Laboratory Results” Appendix*)

COMFORT PARAMETER TESTING:

FEI also conducted Comfort Parameter Sampling which included Temperature and Relative Humidity by utilizing electronic recording monitors (EXTECH Model 445580 Humidity/Temperature Pen). Measurements were collected throughout the building during the inspection. Description of recommended levels and comfort parameter results are found below.

TEMPERATURE (T)

The measurement of the air temperature is used to determine comfort level parameters associated with the indoor environment. The measuring device was used to collect the temperature in each of the rooms inspected. The American Society of Heating, Refrigerating and Air-conditioning Engineers, Inc. (ASHRAE) provides guidance on comfort ranges for temperature depending on the season. These numbers generally range from 68 to 75 Degrees Fahrenheit (°F) during the winter months and from 73°F to 79°F during the summer months. These ranges should be acceptable for sedentary or slightly active persons. The temperature measured in the building ranged from 60.0°F to 77.4°F. The temperatures measured outside were 60.0°F in the morning, 63.1°F mid-day and 68.0°F in the afternoon.

RELATIVE HUMIDITY (RH)

Measurement of the Relative Humidity are used to indicate comfort level parameters associated with the indoor air. Overly dry or overly humid air are indicators of air quality issues caused by the HVAC system. ASHRAE has set standards that present guidelines for human occupation. Relative Humidity levels below 30% are associated with increased discomfort and drying of the mucus membranes and skin. High humidity can result in condensation and the subsequent development of mold and fungi along with the increase of dust mite propagation. Ideal indoor Relative Humidity for winter months is 35%, while 50% is optimal in the summer months. Relative Humidity levels ≤65% are considered acceptable by ASHRAE standards. The Relative Humidity levels in the

building at the time of the sampling ranged from 38.0% to 57.1%. The outside humidity readings were 48.8% in the morning, 49.3% mid-day and 51.9% in the afternoon.

CONCLUSIONS/RECOMMENDATIONS:

- The airborne fungal spore levels for the indoor air samples at the time of this sampling event **do not** indicate active amplification of fungal spores based on comparison to the outdoor fungal spore levels.
- Visible mold-impacted Window AC Vents and Ceiling AC Vents (confirmed by surface sampling) were observed in Rooms 101 and 104. It is recommended these vents be cleaned in accordance with industry standard mold remediation procedures, such as those outlined in the U.S. Environmental Protection Agency (EPA) publication Mold Remediation in Schools and Commercial Buildings (September 2008).
- As part of an on-going maintenance program, it is recommended that water-stained ceiling tiles, when identified, be investigated to determine the water source and try and correct/reduce the source of the moisture.
- As part of the on-going maintenance & custodial activities, it is recommended that HVAC ceiling diffusers and wall mounted HVAC Units be cleaned (HEPA Vacuumed and wiped down) periodically throughout the year.
- To improve the perception of the buildings indoor air quality, the school system may consider replacing water stained and/or dirty ceiling tiles as an on-going maintenance item.
- As part of the on-going maintenance program, it is recommended HVAC filters and air filtration machines are maintained in good condition with preventative maintenance in accordance with the manufacturer's recommendations.

It is important to note that the reported microbial levels are only reflective of conditions at the time of this test and that microbial populations can vary over time, depending upon a number of conditions, including environmental factors, i.e., temperature and relative humidity. FEI, by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment.

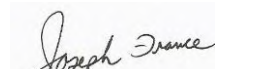
Thank you for choosing FEI as your consultant for this project. If you have any questions, or if we can be of additional service, please contact the undersigned at 804.716.0560.

Respectfully submitted,

FRANCE ENVIRONMENTAL, INC.



Andrew H. Baird
Industrial Hygienist



Joseph T. France
Project Manager

Attachments: Mold Air Cassettes/Tape Lift Analytical Laboratory Report
Drawing Indicating Sample Locations
Photographs of Site Conditions
Fungal Types and Group Chart

**MOLD AIR CASSETTE/TAPE LIFT ANALYTICAL
LABORATORY RESULTS**

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
Jill G. CarrilloAmeriSci Job #:
323111126
FINAL REPORT**Client: France Environmental, Inc.**
Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job#:** FEI-23MI637
Client Job Name: CORPS: Fairfield Court Elementary School**Date Received:** 11/27/23
Date Reported: 11/28/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111126-01			323111126-02			323111126-03			323111126-04		
Sample Number	2915665			2915655			2915645			2915625		
Sample Name	Multi-Purpose Rm			Kitchen			Main Office			Nurse's Office		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	160	n/a	4	40	n/a	1	200	n/a	5	120	n/a	3
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	160	4	4	80	1	2	40	<1	1	80	1	2
Aspergillus/Penicillium	80	2	2	ND			120	1	3	1040	7	26
Basidiospores	3960	94	99	>12000	99	300	>12000	99	300	>12000	77	300
Cladosporium sp.	ND			ND			ND			2440	16	61
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	4200	100	105	12080	100	302	12160	100	304	15560	100	389

ND = None Detected

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MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
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323111126
FINAL REPORT**Client: France Environmental, Inc.****Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225****Client Job#: FEI-23MI637****Client Job Name: CORPS: Fairfield Court Elementary
School****Date Received: 11/27/23****Date Reported: 11/28/23****Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111126-05			323111126-06			323111126-07			323111126-08		
Sample Number	2915635			2915666			2915656			2915646		
Sample Name	Main Office - Office #1			Main Office - Office #2			Main Office - Office #3			Outside Building - Pre - Front		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	80	n/a	2	80	n/a	2	400	n/a	10	80	n/a	2
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	40	n/a	1
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	160	1	4	40	<1	1	280	4	7	1960	14	49
Aspergillus/Penicillium	80	1	2	ND			160	2	4	160	1	4
Basidiospores	>12000	98	300	>12000	98	300	7080	92	177	>12000	85	300
Cladosporium sp.	ND			80	1	2	ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			80	1	2	120	2	3	ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			40	1	1	ND		
Total Fungal Spores	12240	100	306	12200	100	305	7680	100	192	14120	100	353

ND = None Detected

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AmeriSci Number	323111126-09			323111126-10			323111126-11			323111126-12		
Sample Number	2915636			2915626			2915667			2915657		
Sample Name	Gym			Gym Hallway			Class at Side Exit			Class at Side Exit		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	ND	n/a	ND	160	n/a	4	80	n/a	2	80	n/a	2
Mycelial Fragments	ND	n/a	ND	40	n/a	1	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	ND			ND			80	2	2	ND		
Aspergillus/Penicillium	ND			80	1	2	ND			ND		
Basidiospores	ND			10160	99	254	4640	98	116	3120	100	78
Cladosporium sp.	ND			ND			ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			40	<1	1	ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	ND	ND	ND	10280	100	257	4720	100	118	3120	100	78

ND = None Detected

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MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
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FINAL REPORT**Client: France Environmental, Inc.**
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AmeriSci Number	323111126-13			323111126-14			323111126-15			323111126-16		
Sample Number	2915647			2915637			2915627			2915668		
Sample Name	120			119			118			117		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	80	n/a	2	120	n/a	3	80	n/a	2	40	n/a	1
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	360	11	9	160	4	4	80	4	2	ND		
Aspergillus/Penicillium	80	2	2	80	2	2	ND			40	2	1
Basidiospores	2720	84	68	3640	94	91	2080	96	52	2480	98	62
Cladosporium sp.	80	2	2	ND			ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	3240	100	81	3880	100	97	2160	100	54	2520	100	63

ND = None Detected

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MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
Jill G. Carrillo**AmeriSci Job #:**
323111126
FINAL REPORT**Client: France Environmental, Inc.**
Address: 7834 Forest Hill Ave
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Client Job Name: CORPS: Fairfield Court Elementary School**Date Received:** 11/27/23
Date Reported: 11/28/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111126-17			323111126-18			323111126-19			323111126-20		
Sample Number	2915658			2915648			2915638			2915628		
Sample Name	116			115			114			113		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	40	n/a	1	40	n/a	1	80	n/a	2	200	n/a	5
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	40	2	1	ND			ND			80	2	2
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	2240	98	56	3040	100	76	5160	100	129	4320	98	108
Cladosporium sp.	ND			ND			ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	2280	100	57	3040	100	76	5160	100	129	4400	100	110

ND = None Detected

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AmeriSci Number	323111126-21			323111126-22			323111126-23			323111126-24		
Sample Number	2915669			2915659			2915649			2918537		
Sample Name	112			Middle Hallway			Kitchen Office			101A		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			2		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	120	n/a	3	240	n/a	6	200	n/a	5	280	n/a	7
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	ND			40	1	1	240	6	6	ND		
Aspergillus/Penicillium	ND			40	1	1	ND			80	13	2
Basidiospores	2440	97	61	5680	99	142	3560	94	89	360	60	9
Cladosporium sp.	80	3	2	ND			ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			160	27	4
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	2520	100	63	5760	100	144	3800	100	95	600	100	15

ND = None Detected

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AmeriSci Number	323111126-25			323111126-26			323111126-27			323111126-28		
Sample Number	2918535			2918555			2918545			2918564		
Sample Name	101			102			103			104		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	2			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	200	n/a	5	160	n/a	4	120	n/a	3	160	n/a	4
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	120	6	3	ND			ND			ND		
Aspergillus/Penicillium	120	6	3	6040	99	151	ND			ND		
Basidiospores	1440	73	36	ND			3320	100	83	3920	96	98
Cladosporium sp.	40	2	1	ND			ND			40	1	1
Curvularia sp.	ND			ND			ND			80	2	2
Epicoccum sp.	ND			40	1	1	ND			ND		
Myxomycetes/Periconia/Smuts	200	10	5	ND			ND			40	1	1
Pithomyces sp.	40	2	1	ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	1960	100	49	6080	100	152	3320	100	83	4080	100	102

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
Jill G. CarrilloAmeriSci Job #:
323111126
FINAL REPORT**Client: France Environmental, Inc.**
Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job#:** FEI-23MI637
Client Job Name: CORPS: Fairfield Court Elementary School**Date Received:** 11/27/23
Date Reported: 11/28/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111126-29			323111126-30			323111126-31			323111126-32		
Sample Number	2918556			2918544			2918557			2918546		
Sample Name	MIC			MDF			106			107		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	40	n/a	1	ND	n/a	ND	ND	n/a	ND
Fibers	80	n/a	2	40	n/a	1	80	n/a	2	200	n/a	5
Mycelial Fragments	ND	n/a	ND	40	n/a	1	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	ND			80	1	2	80	2	2	ND		
Aspergillus/Penicillium	ND			80	1	2	120	3	3	ND		
Basidiospores	2680	100	67	5960	96	149	3280	92	82	4800	100	120
Cladosporium sp.	ND			80	1	2	80	2	2	ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			40	1	1	ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	2680	100	67	6240	100	156	3560	100	89	4800	100	120

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
Jill G. CarrilloAmeriSci Job #:
323111126
FINAL REPORT**Client: France Environmental, Inc.**
Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job#:** FEI-23MI637
Client Job Name: CORPS: Fairfield Court Elementary School**Date Received:** 11/27/23
Date Reported: 11/28/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111126-33			323111126-34			323111126-35			323111126-36		
Sample Number	2944042			2918554			2918538			2918547		
Sample Name	108			109			110			111		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	160	n/a	4	200	n/a	5	ND	n/a	ND	160	n/a	4
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	720	6	18	40	1	1	ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	>12000	94	300	2960	96	74	120	100	3	3960	100	99
Cladosporium sp.	ND			ND			ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			80	3	2	ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	12720	100	318	3080	100	77	120	100	3	3960	100	99

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
Jill G. CarrilloAmeriSci Job #:
323111126
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job#:** FEI-23MI637**Client Job Name:** CORPS: Fairfield Court Elementary
School**Date Received:** 11/27/23**Date Reported:** 11/28/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111126-37			323111126-38			323111126-39			323111126-40		
Sample Number	2918534			2918536			2944060			2922618		
Sample Name	Server Room			A8			A7			Rotunda Hall		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	240	n/a	6	280	n/a	7	ND	n/a	ND	40	n/a	1
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	160	4	4	ND			40	1	1	ND		
Aspergillus/Penicillium	ND			200	6	5	80	2	2	ND		
Basidiospores	3840	96	96	3320	93	83	5160	98	129	6440	100	161
Cladosporium sp.	ND			ND			ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			40	1	1	ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	4000	100	100	3560	100	89	5280	100	132	6440	100	161

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
Jill G. CarrilloAmeriSci Job #:
323111126
FINAL REPORT**Client: France Environmental, Inc.**
Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job#:** FEI-23MI637
Client Job Name: CORPS: Fairfield Court Elementary School**Date Received:** 11/27/23
Date Reported: 11/28/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323111126-41			323111126-42			323111126-43			323111126-44		
Sample Number	2944049			2944037			2944040			2922762		
Sample Name	A6			A5			A4			A3		
Analysis Date	11/27/2023			11/27/2023			11/27/2023			11/27/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	160	n/a	4	ND	n/a	ND	120	n/a	3	80	n/a	2
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	40	n/a	1
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Ascospores	ND			ND			40	1	1	ND		
Aspergillus/Penicillium	ND			40	3	1	ND			ND		
Basidiospores	1640	100	41	1200	97	30	3760	98	94	3040	100	76
Cladosporium sp.	ND			ND			ND			ND		
Curvularia sp.	ND			ND			ND			ND		
Epicoccum sp.	ND			ND			ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			40	1	1	ND		
Pithomyces sp.	ND			ND			ND			ND		
Stachybotrys sp.	ND			ND			ND			ND		
Total Fungal Spores	1640	100	41	1240	100	31	3840	100	96	3040	100	76

ND = None Detected



AmeriSci Bio-Chem

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

Analyzed By:
Jill G. Carrillo

AmeriSci Job #:
323111126
FINAL REPORT

Client: France Environmental, Inc.
Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225

Client Job#: FEI-23MI637
Client Job Name: CORPS: Fairfield Court Elementary School

Date Received: 11/27/23
Date Reported: 11/28/23

Air Cassette Analytical Report (SOP# 3.24.01)

AmeriSci Number 323111126-45												
Sample Number	2944053											
Sample Name	Outside Building - Post - Front											
Analysis Date	11/27/2023											
Volume (L)	25											
Limit of Detection (LOD) (Count/M ³)	40											
Background Density	1											
Other	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	ND	n/a	ND									
Fibers	240	n/a	6									
Mycelial Fragments	40	n/a	1									
Fungal Identification	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	ND											
Aspergillus/Penicillium	ND											
Basidiospores	4520	99	113									
Cladosporium sp.	40	1	1									
Curvularia sp.	ND											
Epicoccum sp.	ND											
Myxomycetes/Periconia/Smuts	ND											
Pithomyces sp.	ND											
Stachybotrys sp.	ND											
Total Fungal Spores	4560	100	114									

ND = None Detected

Results relate only to the items tested and are reported mathematically to significant figures.

Name/Title: Jill G. Carrillo / Analyst

Name/Title: Jill G. Carrillo / Analyst

Signature:

Reviewed By:

Date: 11/28/23

Date: 11/28/23



AmeriSci Bio-Chem

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

AmeriSci Job #:
323111126
FINAL REPORT

Client: France Environmental, Inc.
Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225

Client Job#: FEI-23MI637
Client Job Name: CORPS: Fairfield Court Elementary School

Date Received: 11/27/23
Date Reported: 11/28/23

Direct Fungal Identification (SOP# 3.21.01)

AmeriSci Job # 323111126-46

Sample #: T1	Sample description: 101 - Black on Window AC Vent	Analysis Date: 11/27/23
<u>Fungal Identification</u>	<u>Estimated Amount</u>	<u>Comments</u>
Cladosporium sp.	Heavy	

AmeriSci Job # 323111126-47

Sample #: T2	Sample description: 104 - Black on Ceiling AC Vent	Analysis Date: 11/27/23
<u>Fungal Identification</u>	<u>Estimated Amount</u>	<u>Comments</u>
Cladosporium sp.	Heavy	

Minimum reporting limit is no fungi detected

Rare: 1 - 10 Spores

Light: 11 - 100 Spores

Moderate: 101 - 200 Spores

Heavy: 200+ Spores

Results relate only to the items tested.

Name/Title: Jill G. Carrillo / Analyst

Name/Title: Jill G. Carrillo / Analyst

Signature:

Reviewed By:

Date: 11/28/23

Date: 11/28/23



13635 Genito Road Midlothian, VA 23112
(804) 763-1200 Phone / (804) 763-1800 Fax
AIHA ACCREDITED 175122

323-11-1126

Requested Services (X Boxes)

Non-Viable Culturable
Spore Trap Tape Bulk Andersen, Swab, Bulk

Contact Information

Company: **France Environmental, Inc.** PO#:
Address **7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225**
Results To: **Joseph France** Fax Results? Y/N Fax: **(804) 918-7098**
Phone: **(804) 716-0560** Email Y/N: **JFrance@FranceEnv.com**

Project Information

Turnaround Time Codes

Project #: **FEI-23MI637**
Project Name **CORPS: Fairfield Court Elementary School**
Invoice To: **Joseph France**
Sampling Date(s): **11-22-23**

STD – Standard: 2 Days (Non-viable)
24 – 24: 24 Hours (Non-viable)
R – Rush: 6 hours (Non-viable)
C – Culture: 7-14 Days
W – Weekends: Scheduled by noon ET Friday Only
***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2915665	Multi-Purpose Rm	ST	STD	25 LTRS	
2915655	Kitchen	ST	STD	25 LTRS	
2915645	Main Office	ST	STD	25 LTRS	
2915625	Nurse's Office	ST	STD	25 LTRS	
2915635	Main Office – Office #1	ST	STD	25 LTRS	
2915666	Main Office – Office #2	ST	STD	25 LTRS	
2915656	Main Office – Office #3	ST	STD	25 LTRS	
2915646	Outside Building – Pre - Front	ST	STD	25 LTRS	
2915636	Gym	ST	STD	25 LTRS	
2915626	Gym Hallway	ST	STD	25 LTRS	
2915667	Class at Side Exit	ST	STD	25 LTRS	
2915657	Class at Side Exit	ST	STD	25 LTRS	

Fungal Spore Count Only - No ID

Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count

Fungal Genus Identification – Qualitative

Environmental Fungal Genus ID & Enumeration

Environmental Bacterial Enumeration & Gram Stain ID

Fungal Speciation – Scheduled in Advance Only

Bacterial speciation – Scheduled in Advance Only

Sample Type Codes

Relinquished By

Date & Time

Received By

Date & Time

AP – Andersen Plate
SW - Swab
B – Bulk

T - Tape
ST - Spore Trap: Zefon, Micro5, Cyclex-d, etc.

Andrew Paul

11-27-23

Received

NOV 27 2023

AWI



13635 Genito Road Midlothian, VA 23112
 (804) 763-1200 Phone / (804) 763-1800 Fax
 AIHA ACCREDITED 175122

323-11-1126

Requested Services (X Boxes)												
Non-Viable		Culturable										
Spore Trap	Tape Bulk	Andersen, Swab, Bulk										
Fungal Spore Count Only - No ID	Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count	Fungal Genus Identification - Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation - Scheduled in Advance Only	Bacterial speciation - Scheduled in Advance Only						

Contact Information			
Company: France Environmental, Inc.			PO#:
Address 7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225			
Results To: Joseph France	Fax Results? Y/N	Fax: (804) 918-7098	
Phone: (804) 716-0560	Email Y/N: JFrance@FranceEnv.com		

Project Information	Turnaround Time Codes
Project #: FEI-23MI637	STD - Standard: 2 Days (Non-viable) 24 - 24: 24 Hours (Non-viable) R - Rush: 6 hours (Non-viable) C - Culture: 7-14 Days W - Weekends: Scheduled by noon ET Friday Only ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.
Project Name: CORPS: Fairfield Court Elementary School	
Invoice To: Joseph France	
Sampling Date(s): 11-22-23	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2915647	120	ST	STD	25 LTRS	
2915637	119	ST	STD	25 LTRS	
2915627	118	ST	STD	25 LTRS	
2915668	117	ST	STD	25 LTRS	
2915658	116	ST	STD	25 LTRS	
2915648	115	ST	STD	25 LTRS	
2915638	114	ST	STD	25 LTRS	
2915628	113	ST	STD	25 LTRS	
2915669	112	ST	STD	25 LTRS	
2915659	Middle Hallway	ST	STD	25 LTRS	
2915649	Kitchen Office	ST	STD	25 LTRS	
2918537	101A	ST	STD	25 LTRS	

Sample Type Codes	
AP - Andersen Plate	T - Tape
SW - Swab	ST - Spore Trap: Zefon, Micro5, Cyclex-d, etc.
B - Bulk	

Relinquished By	Date & Time	Received By	Date & Time
<i>Andrew Baird</i>	11-27-23		Received 2023
			NOV 27 2023
			<i>ADW</i>



13635 Genito Road Midlothian, VA 23112
 (804) 763-1200 Phone / (804) 763-1800 Fax
 AIHA ACCREDITED 175122

323-11-1126

Requested Services (X Boxes)

Non-Viable		Culturable			
Spore Trap	Tape Bulk	Andersen, Swab, Bulk			

Contact Information

Company: **France Environmental, Inc.** PO#:
 Address **7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225**
 Results To: **Joseph France** Fax Results? Y/N Fax: **(804) 918-7098**
 Phone: **(804) 716-0560** Email Y/N: **JFrance@FranceEnv.com**

Project Information

Project #: **FEI-23MI637**
 Project Name **CORPS: Fairfield Court Elementary School**
 Invoice To: **Joseph France**
 Sampling Date(s): **11-22-23**

Turnaround Time Codes

STD – Standard: 2 Days (Non-viable)
24 – 24: 24 Hours (Non-viable)
R – Rush: 6 hours (Non-viable)
C – Culture: 7-14 Days
W – Weekends: Scheduled by noon ET Friday Only
 ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.

Fungal Spore Count Only - No ID	Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count	Fungal Genus Identification – Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation – Scheduled in Advance Only	Bacterial speciation – Scheduled in Advance Only
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2918535	101	ST	STD	25 LTRS	
2918555	102	ST	STD	25 LTRS	
2918545	103	ST	STD	25 LTRS	
2918564	104	ST	STD	25 LTRS	
2918556	MIC	ST	STD	25 LTRS	
2918544	MDF	ST	STD	25 LTRS	
2918557	106	ST	STD	25 LTRS	
2918546	107	ST	STD	25 LTRS	
2944042	108	ST	STD	25 LTRS	
2918554	109	ST	STD	25 LTRS	
2918538	110	ST	STD	25 LTRS	
2918547	111	ST	STD	25 LTRS	

Sample Type Codes

AP – Andersen Plate
SW - Swab
B - Bulk

T - Tape
ST - Spore Trap: Zefon, Micro5, Cyclex-d, etc.

Relinquished By <i>Andrew Baird</i>	Date & Time 11-27-23	Received By	Date & Time Received
			NOV 27 2023

Amal 3



13635 Genito Road Midlothian, VA 23112
 (804) 763-1200 Phone / (804) 763-1800 Fax
 AIHA ACCREDITED 175122

323-11-1126

Requested Services (X Boxes)

Non-Viable		Culturable		
Spore Trap	Tape Bulk	Andersen, Swab, Bulk		

Contact Information

Company: France Environmental, Inc.		PO#:
Address 7834 Forest Hill Avenue, Suite 7, Richmond VA. 23225		
Results To: Joseph France	Fax Results? Y/N	Fax: (804) 918-7098
Phone: (804) 716-0560	Email Y/N: JFrance@FranceEnv.com	

Project Information

Turnaround Time Codes

Project #: FEI-23MI637	STD – Standard: 2 Days (Non-viable) 24 – 24: 24 Hours (Non-viable) R – Rush: 6 hours (Non-viable) C – Culture: 7-14 Days W – Weekends: Scheduled by noon ET Friday Only ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.
Project Name: CORPS: Fairfield Court Elementary School	
Invoice To: Joseph France	
Sampling Date(s): 11-22-23	

Fungal Spore Count Only - No ID

Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count

Fungal Genus Identification – Qualitative

Environmental Fungal Genus ID & Enumeration

Environmental Bacterial Enumeration & Gram Stain ID

Fungal Speciation – Scheduled in Advance Only

Bacterial speciation – Scheduled in Advance Only

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2918534	Server Room	ST	STD	25 LTRS	
2918536	A8	ST	STD	25 LTRS	
2944060	A7	ST	STD	25 LTRS	
2922618	Rotunda Hall	ST	STD	25 LTRS	
2944049	A6	ST	STD	25 LTRS	
2944037	A5	ST	STD	25 LTRS	
2944040	A4	ST	STD	25 LTRS	
2922762	A3	ST	STD	25 LTRS	
2944053	Outside Building – Post – Front	ST	STD	25 LTRS	
T1	101 – Black on Window AC Vent	T	STD		
T2	104 – Black on Ceiling AC Vent	T	STD		

Sample Type Codes

AP – Andersen Plate	T - Tape
SW - Swab	ST - Spore Trap: Zefon, Micro5, Cyclex-d, etc.
B - Bulk	

Relinquished By

Date & Time

Received By

Received Date & Time

Andrew Baird

11-27-23

NOV 27 2023

AW 4

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
Justin B. LivermanAmeriSci Job #:
323121089
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job#:** FEI-23MI637**Client Job Name:** City Of Richmond Public Schools
(CORPS); Fairfield Court
Elementary School, 2510 Phaup**Date Received:** 12/29/23**Date Reported:** 12/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121089-01			323121089-02			323121089-03			323121089-04		
Sample Number	2916007			2916017			2916015			2916018		
Sample Name	Main Office			Nurse's Office			Main Office, Office 1			Main Office, Office 2		
Analysis Date	12/29/2023			12/29/2023			12/29/2023			12/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			2			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	40	n/a	1	ND	n/a	ND	120	n/a	3	40	n/a	1
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Aspergillus/Penicillium	ND			ND			40	14	1	ND		
Basidiospores	ND			ND			160	57	4	120	75	3
Cladosporium sp.	40	100	1	ND			80	29	2	40	25	1
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
Total Fungal Spores	40	100	1	ND	ND	ND	280	100	7	160	100	4

ND = None Detected

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Analyzed By:**
Justin B. LivermanAmeriSci Job #:
323121089
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job#:** FEI-23MI637
Client Job Name: City Of Richmond Public Schools
(CORPS); Fairfield Court
Elementary School, 2510 Phaup**Date Received:** 12/29/23
Date Reported: 12/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121089-05			323121089-06			323121089-07			323121089-08		
Sample Number	2916016			2916006			2916008			2916023		
Sample Name	Main Office, Office 3			Kitchen			Room 108			Gym Hallway		
Analysis Date	12/29/2023			12/29/2023			12/29/2023			12/29/2023		
Volume (L)	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	40			40			40			40		
Background Density	1			1			1			1		
Other	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	40	n/a	1	ND	n/a	ND	40	n/a	1	80	n/a	2
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fungal Identification	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count	Count/M³	%	Raw Count
Aspergillus/Penicillium	40	11	1	ND			ND			ND		
Basidiospores	240	67	6	40	25	1	ND			40	13	1
Cladosporium sp.	80	22	2	80	50	2	40	50	1	280	88	7
Myxomycetes/Periconia/Smuts	ND			40	25	1	40	50	1	ND		
Total Fungal Spores	360	100	9	160	100	4	80	100	2	320	100	8

ND = None Detected



AmeriSci Bio-Chem

13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

Analyzed By:
Justin B. Liverman

AmeriSci Job #:
323121089
FINAL REPORT

Client: France Environmental, Inc.

**Address: 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**

Client Job#: FEI-23MI637
**Client Job Name: City Of Richmond Public Schools
(CORPS); Fairfield Court
Elementary School, 2510 Phaup**

Date Received: 12/29/23
Date Reported: 12/29/23

Air Cassette Analytical Report (SOP# 3.24.01)

AmeriSci Number 323121089-09												
Sample Number	2916024											
Sample Name	Exterior Front B Flagpole											
Analysis Date	12/29/2023											
Volume (L)	25											
Limit of Detection (LOD) (Count/M ³)	40											
Background Density	1											
Other	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	ND	n/a	ND									
Fibers	ND	n/a	ND									
Mycelial Fragments	ND	n/a	ND									
Fungal Identification	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Aspergillus/Penicillium	40	5	1									
Basidiospores	120	16	3									
Cladosporium sp.	600	79	15									
Myxomycetes/Periconia/Smuts	ND											
Total Fungal Spores	760	100	19									

ND = None Detected

Results relate only to the items tested and are reported mathematically to significant figures.

Name/Title: Justin B. Liverman / Analyst

Name/Title: Justin B. Liverman / Analyst

Signature:

Reviewed By:

Date: 12/29/23

Date: 12/29/23

323 121089



13635 Genito Road Midlothian, VA 23112
 (804) 763-1200 Phone / (804) 763-1800 Fax

Requested Services (X Boxes)											
Non-Viable		Culturable									
Spore Trap	Tape Bulk	Andersen, Swab, Bulk									
Fungal Spore Count and Genus ID, pollen, fiber & mycelial fragment count	Fungal Genus Identification - Qualitative	Environmental Fungal Genus ID & Enumeration	Environmental Bacterial Enumeration & Gram Stain ID	Fungal Speciation - Scheduled in Advance Only	Bacterial speciation - Scheduled in Advance Only						
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Contact Information

Company: France Environmental PO#: _____

Address 7834 Forest Hill Ave Suite #7 Richmond, VA 23225

Results To: FEI Fax Results? Fax#: _____

Phone: 804 716 0560 Email? Email: FEI Distribution List

Project Information **Turnaround Time Codes**

City of Richmond Public Schools (CORPS)
 Fairfield Court Elementary School
 Project Name: 2510 Phaup Street
 Richmond, Virginia 23223
 Proj. #: FEI-23MI637

STD - Standard: 2 Days (Non-viable)
24 - 24: 24 Hours (Non-viable)
R - Rush: 6 hours (Non-viable)
C - Culture: 7-14 Days
W - Weekends: Scheduled by noon ET Friday Only
 ***Samples received after 5pm, on weekends or in drop-box, will be considered received the next business day.

Sampling Date(s): **12/29/23**

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2916007	Main Office	ST	STD	25 Liters	
2916017	Nurse's Office	ST	STD	25 Liters	
2916015	Main Office, Office 1	ST	STD	25 Liters	
2916018	Main Office, Office 2	ST	STD	25 Liters	
2916016	Main Office, Office 3	ST	STD	25 Liters	
2916006	Kitchen	ST	STD	25 Liters	
2916008	Room 108	ST	STD	25 Liters	
2916023	Gym Hallway	ST	STD	25 Liters	
2916024	Exterior Front By Flagpole	ST	STD	25 Liters	

Sample Type Codes

AP - Andersen Plate	T - Tape
SW - Swab	ST - Spore Trap: Zefon, Micro5, Cyclex-d, etc.
B - Bulk	

Relinquished By	Date & Time	Received By	Date & Time
Micheal D. Allshouse	12/29/23	<i>Received</i>	

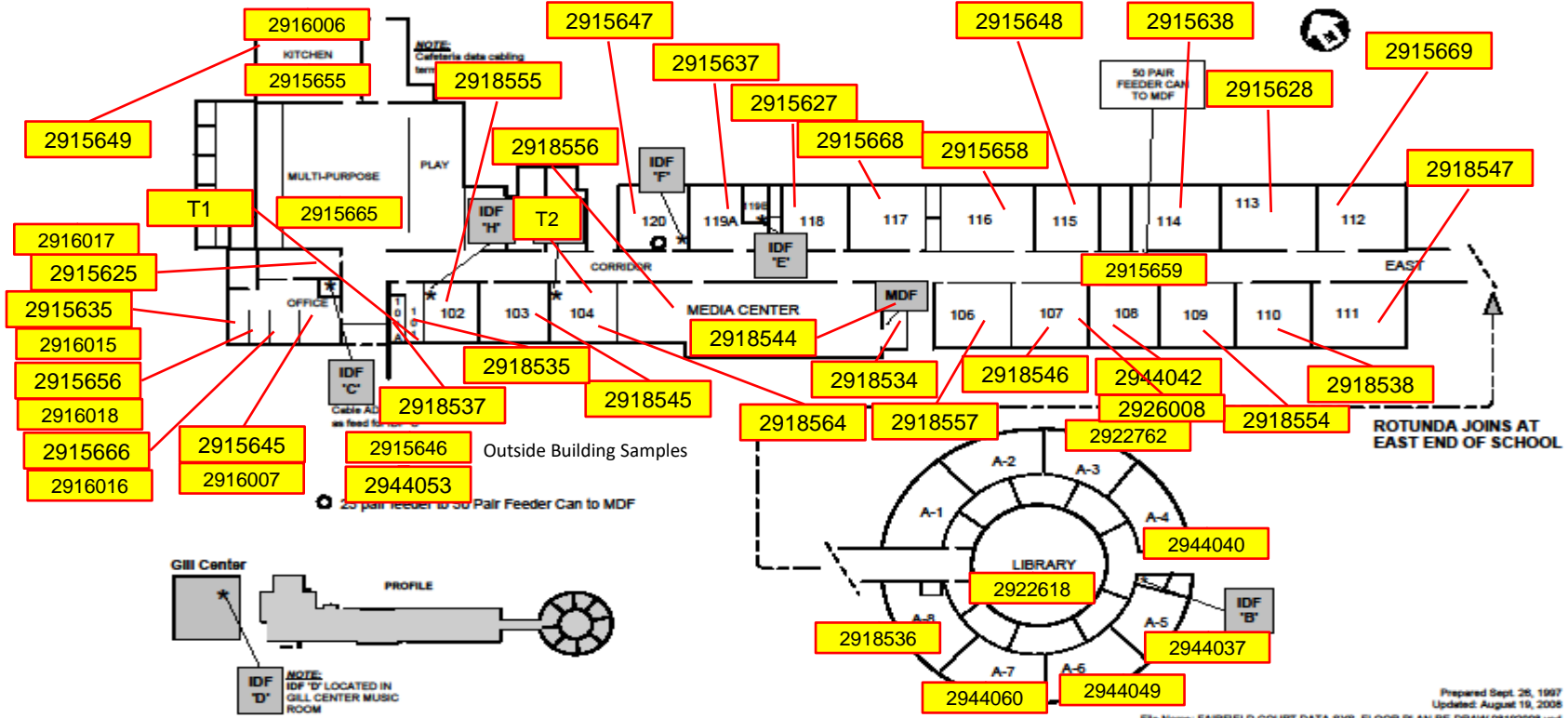
AmeriSci Bio-Chem

DEC 29 2023

DRAWINGS INDICATING SAMPLE LOCATIONS

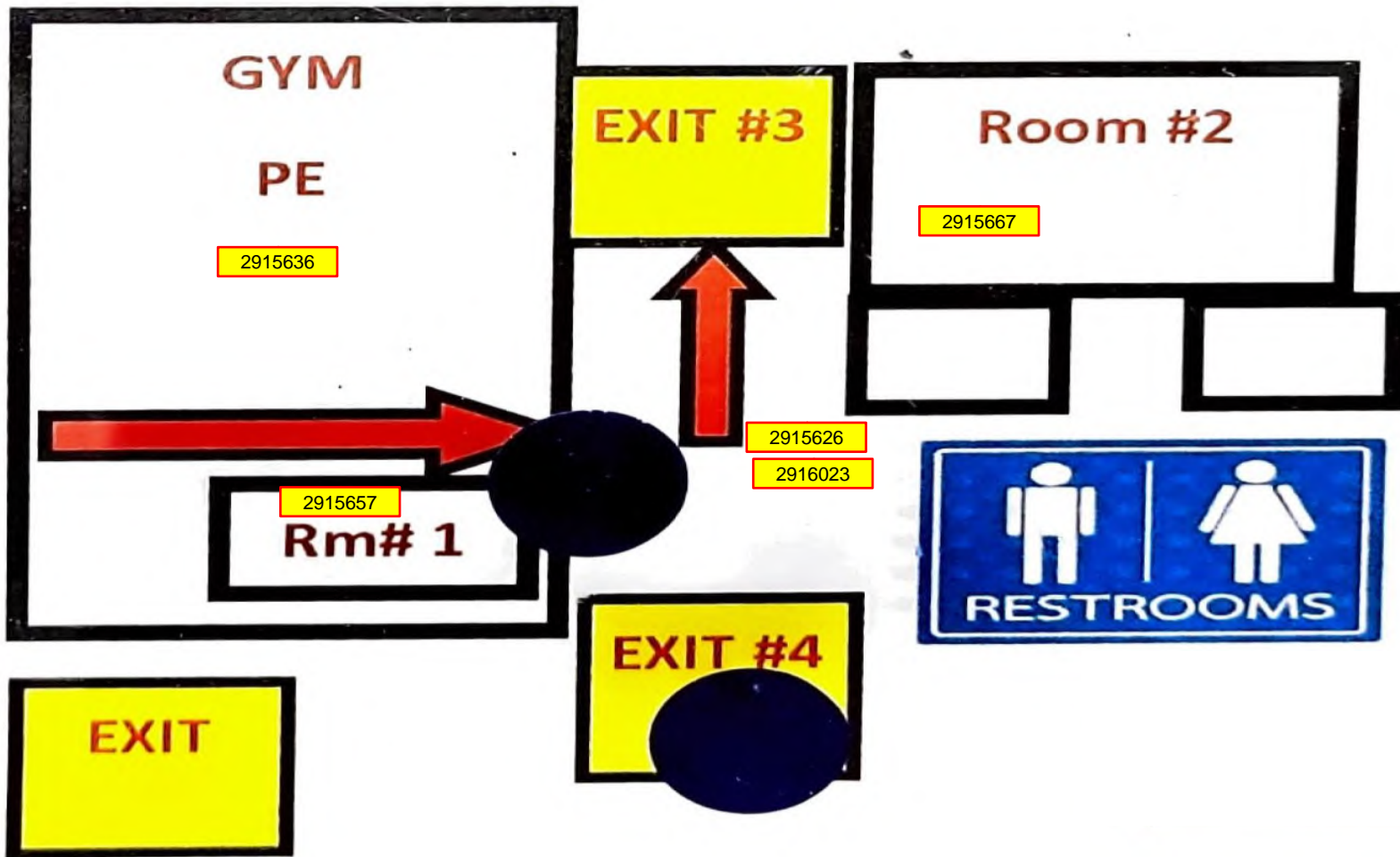
RICHMOND PUBLIC SCHOOLS
DATA SYSTEMS CONNECTIONS AND FLOOR PLAN LAYOUT

**FAIRFIELD COURT
ELEMENTARY**



**Moisture & Mold Assessment Sample
Location Drawing**
Fairfield Court Elementary School
Richmond, Virginia
FEI Project #: FEI-23MI637 Survey Date: 11/22/2023





**Moisture & Mold Assessment Sample
 Location Drawing**
 Fairfield Court Elementary School
 Richmond, Virginia
 FEI Project #: FEI-23MI637 Survey Date: 11/22/2023

PHOTOGRAPHS OF SITE CONDITIONS



Photograph No. 1
Showing Visible Mold Growth - Office 101



Photograph No. 2
Showing Visible Mold Growth - Office 101A



Photograph No. 3
Showing General Dust and Debris - Cafeteria



Photograph No. 4
Showing General Dust and Debris - Gym Hallway



Photograph No. 5
Showing Visible Mold Growth on Ceiling Unit Vent - Classroom 104
Ceiling Unit Vent Not Sampled Due To Height



Photograph No. 6
Showing Multiple Stained Lay-In Ceiling Tiles - Gym Hallway

CHART 1
FUNGAL TYPES AND GROUPS

Chart 1

Fungal Types and Groups

These are brief descriptions for general informational purposes:

- Ascospores (ass-co-spores)** a large category of spores (produced in a sac-like structure) that are found everywhere in nature and include more than 3,000 genera. Most *Ascospores* of health or IAQ importance are identified separately by their genus (e.g. *Chaetomium*) when possible on a IAQ report, and the *Ascospore* category is used primarily on these reports for a large group of less important spore types often found in quantity on outdoor air samples. On tape samples, *Ascospore* is sometimes also used as a general morphological identification (i.e., the ascus or sac structure is present) for certain samples in those cases when the spores do not appear to represent any of the IAQ significant genera.
- Aspergillus (as-per-jill-us)** allergen/contaminant/opportunistic pathogen, commonly found in the environment around the world. It comprises approximately 200 species and can appear almost any color. Though commonly found on cultures, tape-lifts, and air samples, its spores are indistinguishable from *Penicillium* on non-cultured samples (like tape-lifts and air-o-cells) unless the conidiophore is present. Health effects vary by species, but many species are reported to be allergenic. Some species produce toxins that might have significant health effects in humans. *Aspergillus* is one of the most infectious of molds, but infections are not common in normal immune systems. In immuno-compromised individuals, however, the disease *Aspergillosis* is a very significant and potentially deadly health concern.
- Basidiospores (bah-sid-ee-oh-spores)** allergen/contaminant, a general class of spore formed on a structure known as a *basidium*, characteristic of the *Basidiomycete* class (that includes rusts, smuts and mushrooms). This category is commonly found in outdoor air samples. Many species are reported to be allergenic and some species are associated with dry rot in wood. Elevated airborne concentrations indoors might be indicative of water damage or too high of humidity.
- Cladosporium (clad-oh-spore-ee-um)** common allergen/contaminant/very rarely pathogenic, found everywhere, many times the most common and numerous mold found in outdoor air. Indoor concentrations are usually not as high, but it is an important airborne allergen and common agent for hay fever, asthma, and other allergy related symptoms. It can thrive in various indoor environments, appearing light green to black (the black mold on air vent grills is usually *Cladosporium*).
- Curvularia (curve-you-lair-ee-uh)** contaminant/opportunistic pathogen, found in air, soil and textiles. Reported to be allergenic. Rare infections of corneas, nails, and sinuses, primarily in immunocompromised individuals.
- Epicoccum (epp-ee-cock-um)** contaminant/opportunistic pathogen, found in soil, air, water and rotting vegetation and can be commonly found in outdoor air. It is a common allergen and rarely can it cause an infection in the skin.
- Mycelial Fragments (my-sill-e-ul)** a mass of hyphae; not in the form of large spore producing parts. Hyphae are an individual fungal thread or filament of connected cells. The thread that represents the individual parts of the fungal body.
- Myxomycetes (mix-oh'-my-seat)** general category for commonly found genera usually associated with living and decaying plants as well as decaying wood. Sometimes can be found indoors. Some allergenic properties reported, but generally pose no health concerns to humans or animals.
- Penicillium (pen-uh-sill-ee-um)** contaminant/opportunistic pathogen, one of the most common genera found worldwide in soil and decaying vegetation and indoors in dust, food and various building materials. Common bread mold is a species of *Penicillium*. Spores usually cannot be distinguished from *Aspergillus* on non-cultured samples (like tape-lifts and air-o-cells). It is reported to be allergenic, to cause certain infections in compromised individuals, and some species do produce toxins unhealthy to humans.
- Periconia (per-ee-cone-e-uh)** ubiquitous cosmopolitan. Mostly found in soil, blackened and dead herbaceous stems and leaf spots, grasses, rushes and sedges. Almost always associated with other fungi. Rare case of mycotic keratitis reported. Allergen not studied.

Chart 1

Fungal Types and Groups

These are brief descriptions for general informational purposes:

<i>Pithomyces</i> (<i>pith-oh-my-sees</i>)	contaminant, found on decaying plants, especially leaves and grasses. Rarely found indoors, but it can grow on paper. No reports of allergies or infections, but some species produce a toxin that causes facial eczema in sheep.
<i>Pollen</i> (<i>pol-uhn</i>)	Pollen is a fine powder produced by certain plants when they reproduce. During the spring, summer, and fall seasons, it's released into the air and picked up by the wind, which brings it to other plants to fertilize them. Inside of these pollen grains are proteins that commonly cause allergic reactions (such as sneezing, runny nose, and itchy eyes) when breathed in. The pollen that's most often responsible for causing allergies comes from grasses, trees, and weeds. Many people with asthma are allergic to pollen. When they breathe it in, it can trigger their asthma symptoms.
<i>Smuts</i>	general category for commonly found genera usually associated with living and decaying plants as well as decaying wood. Sometimes can be found indoors. Some allergenic properties reported, but generally pose no health concerns to humans or animals.
<i>Stachybotrys</i> (<i>stack-ee-bought-ris</i>)	contaminant, found indoors primarily on wet cellulose containing materials. It is the "toxic black mold" that has garnered much media attention. Some species produce a potent toxin that is lethal to animals, though dose effect on humans is not clear. One species produces a toxin linked to the bleeding lung deaths of several infants. A host of other toxic reactions in humans are also linked to it, but many of these require further study. <i>Stachybotrys</i> is sometimes difficult to detect indoors because many times it will grow unseen on the back of walls or in the wall cavity with little disturbance that would cause it to be detected by routine air sampling. This is potentially also when it is of most health concern: when it covers entire wall areas and constantly produces toxins undetected. Non-cultured lab analyses (air-o-cells and tape-lifts) usually are the proper method of identification because <i>Stachybotrys</i> does not grow or compete well on most culture plate media, and it is reported that even non-viable spores can be toxigenic.