

Indoor Air Quality Update

May 14, 2024

Dear Families and Staff,

We are writing to update you on concerns regarding the presence of mold at Southampton Elementary School. The safety and wellbeing of our students and staff is our top priority and we want to ensure that you are well-informed about the situation.

To accurately assess the extent of the issue, we commissioned a professional mold testing company to conduct comprehensive tests. A detailed report of the findings outlining the types and levels of mold identified as well as recommended remediation steps is attached. We encourage you to review this report to gain a better understanding of the situation. Before going any further, we want to note that, while there is some mold present in the building, the testing company indicated that the building is safe for occupancy.

In response to the findings, we have taken and will continue to take the following steps:

- Immediate Mitigation: We have initiated immediate measures to address the mold issue, including isolating, cleaning, and disinfecting the affected areas, and implementing improved ventilation and moisture control measures.
- Ongoing Monitoring: Our Facilities Department will continue to monitor the affected areas and conduct regular follow-up inspections to ensure that the mold is effectively addressed and that the building remains safe.
- Communication: We are committed to keeping you informed throughout this process and will provide updates as necessary. Please contact us with any questions or concerns you may have.

We understand that the presence of mold in any of our schools is a cause for concern, and we want to assure you that we are taking all necessary steps to address the issue promptly and effectively. If you have any questions or require further clarification, please do not hesitate to reach out.

Thank you for your understanding and cooperation as we work to maintain a safe and healthy learning environment for our students and staff.

Sincerely,



Jason Kamras
Superintendent



Environmental Consulting Services

7834 Forest Hill Avenue, Suite 7, Richmond, Virginia 23225
ph 804.716.0560 fax 804.918.7098 web FranceEnv.com

May 13, 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: Comprehensive Moisture & Mold Assessment Report
Southampton Elementary School
3333 Cheverly Road
Richmond, Virginia 23225
FEI Project Number: FEI-24MI137

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 March 29, 2024. The investigation was performed by FEI Industrial Hygienists, Mr. Micheal D. Allshouse and Ms. Christine Gyurik.

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.
- Visible mold growth was observed on lay-in ceiling tiles and ceiling HVAC diffuser in the following locations: Room 26, Room 29 and Multi-Purpose Room (Not Sampled Due To Height)

TOTAL FUNGAL AIR SAMPLING:

FEI collected a total of forty-two (42) airborne fungal (mold) spore samples from the following areas:

- All Classrooms, Offices, Commons, Kitchen, Gym, Clinic, Cafeteria, Break Rooms, Auditorium, Multi-Purpose Room 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. (*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 may indicate chronic moisture intrusion issues and confirmation that molds have colonized and are amplifying within the building. None of these mold species were found on any of the interior air samples. ***Chaetomium*** was found in trace amounts in the short hallway beside Room #6. This area showed no visible signs of moisture intrusion.

TOTAL FUNGAL SURFACE SAMPLING:

FEI collected a two (2) direct tape lift surface samples from potential visible mold growth from the following areas:

- One (1) sample was collected from a Lay-In Ceiling Tile in Room 26.
- One (1) sample was collected from a Lay-In Ceiling Tile in Room 29.

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

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

- The results of the surface **sample T1** collected from a Lay-In Ceiling Tile in Room 29 indicated the presence of ***Cladosporium sp. and Curvularia sp.*** The estimated number of spores on the sample for ***Cladosporium sp.*** was described by the laboratory as "Heavy". **Heavy** as defined by the laboratory is 200 or more spores observed. The estimated number of spores on the

sample for *Curvularia sp.* was described by the laboratory as “Rare”. **Rare** as defined by the laboratory is 1-10 spores observed. (Please Refer To “Surface Sample Analysis Laboratory Results” Appendix)

- The results of the surface **sample T2** collected from a Lay-In Ceiling Tile in Room 26 indicated No Fungi Detected. (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 65.5°F to 73.2°F. The temperatures measured outside were 39.7°F in the morning and 41.5°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 22.2% to 39.3%. The outside humidity readings were 49.1% in the morning and 31.6% 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.
- Potential visible mold-impacted ceiling tiles were observed in Rooms 26, 29 and the Multi-Purpose Room. Laboratory analysis confirmed active mold growth in Room 29, but not in Room 26. The ceiling of the Multi-Purpose Room was not accessible to sample based on the height of the ceiling. It is recommended the impacted ceiling tiles in each of these rooms be removed and the surrounding surfaces 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 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.



Micheal D. Allshouse
Industrial Hygienist



Michael E. Leonard
Senior 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**Job # 324031252**
FINAL REPORT**Client: France Environmental, Inc.****Address:** 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job #:** FEI24MI137
Client Job Name: Southhampton Elementary School; 3333 Cheverly Road Richmond 23225**Date Received:** 3/29/2024
Date Reported: 3/30/2024**Air Cassette Analytical Report (SOP # 3.24.01)**

AmeriSci Sample #	324031252-01			324031252-02			324031252-03			324031252-04		
Client Sample #*	2915775			2915776			2915777			2915778		
Sample Name*	Exterior Pre Sampling Front Of Building			Main Office			Lobby			Cafeteria		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	160	n/a	4	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	ND	n/a	ND	200	n/a	5	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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	760	6	19	40	6	1	120	5	3	160	7	4
Aspergillus/Penicillium	120	1	3	ND			80	3	2	80	4	2
Basidiospores	>12000	93	300	600	94	15	2080	90	52	1800	82	45
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	40	<1	1	ND			40	2	1	160	7	4
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	12920	100	323	640	100	16	2320	100	58	2200	100	55

**AmeriSci Bio-Chem**

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FINAL REPORT

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

Client Job #: FEI24MI137
Client Job Name: Southhampton Elementary School; 3333 Cheverly Road Richmond 23225

Date Received: 3/29/2024**Date Reported:** 3/30/2024**Air Cassette Analytical Report (SOP # 3.24.01)**

AmeriSci Sample #	324031252-05			324031252-06			324031252-07			324031252-08		
Client Sample #*	2915779			2915780			2915781			2915782		
Sample Name*	Kitchen			Room 30			Hall By IDF B			Room 29		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
Volume (L)*	25			25			25			25		
Limit of Detection (LOD) (Count/M ³)	160			40			40			40		
Background Density	1			1			1			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	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	320	n/a	2	40	n/a	1	80	n/a	2	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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	160	4	1	80	9	2	80	8	2	ND		
Aspergillus/Penicillium	320	8	2	120	14	3	ND			40	5	1
Basidiospores	3360	84	21	680	77	17	880	88	22	720	95	18
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	160	4	1	ND			40	4	1	ND		
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	4000	100	25	880	100	22	1000	100	25	760	100	19

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AmeriSci Sample #	324031252-09			324031252-10			324031252-11			324031252-12		
Client Sample #*	2915783			2915784			2915785			2915786		
Sample Name*	Room 28			Room 27			Room 26			Short Hall By Room 6		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	80	n/a	2	40	n/a	1	120	n/a	3	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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	ND			ND			120	11	3	40	2	1
Aspergillus/Penicillium	ND			ND			ND			160	7	4
Basidiospores	1800	100	45	680	81	17	960	89	24	2120	88	53
Chaetomium sp.	ND			ND			ND			40	2	1
Cladosporium sp.	ND			120	14	3	ND			ND		
Myxomycetes	ND			ND			ND			40	2	1
Pithomyces sp.	ND			40	5	1	ND			ND		
Total Fungal Spores	1800	100	45	840	100	21	1080	100	27	2400	100	60

**AmeriSci Bio-Chem**

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FINAL REPORT

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Date Received: 3/29/2024**Date Reported:** 3/30/2024**Air Cassette Analytical Report (SOP # 3.24.01)**

AmeriSci Sample #	324031252-13			324031252-14			324031252-15			324031252-16		
Client Sample #*	2915787			2915788			2915789			2915790		
Sample Name*	Room 1			Room 2			Room 3			Room 4		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	40	n/a	1	80	n/a	2	80	n/a	2	80	n/a	2
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	40	n/a	1	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
Ascospores	40	13	1	40	3	1	ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	280	88	7	1200	97	30	3080	99	77	3160	100	79
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	ND			ND			40	1	1	ND		
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	320	100	8	1240	100	31	3120	100	78	3160	100	79

**AmeriSci Bio-Chem**

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Job # 324031252
 FINAL REPORT

Client: France Environmental, Inc.

Address: 7834 Forest Hill Ave
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Client Job #: FEI24MI137
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Air Cassette Analytical Report (SOP # 3.24.01)

AmeriSci Sample #	324031252-17			324031252-18			324031252-19			324031252-20		
Client Sample #*	2915791			2915792			2915793			2915794		
Sample Name*	Room 5			Room 6			Room 7			Room 8		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	40	n/a	1	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	40	n/a	1	40	n/a	1	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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	ND			ND			80	8	2	ND		
Aspergillus/Penicillium	ND			40	4	1	ND			ND		
Basidiospores	3280	100	82	1040	96	26	920	92	23	960	100	24
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	ND			ND			ND			ND		
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	3280	100	82	1080	100	27	1000	100	25	960	100	24

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AmeriSci Sample #	324031252-21			324031252-22			324031252-23			324031252-24		
Client Sample #*	2915795			2915725			2915726			2915727		
Sample Name*	Room 9			Room 12			Room 14			Room 17		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	80	n/a	2	40	n/a	1	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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	80	6	2	80	3	2	ND			ND		
Aspergillus/Penicillium	ND			ND			120	2	3	160	12	4
Basidiospores	1200	88	30	2280	97	57	5160	98	129	1200	88	30
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	80	6	2	ND			ND			ND		
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	1360	100	34	2360	100	59	5280	100	132	1360	100	34

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Job # 324031252**
FINAL REPORT**Client: France Environmental, Inc.****Address:** 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job #:** FEI24MI137
Client Job Name: Southhampton Elementary School; 3333 Cheverly Road Richmond 23225**Date Received:** 3/29/2024
Date Reported: 3/30/2024**Air Cassette Analytical Report (SOP # 3.24.01)**

AmeriSci Sample #	324031252-25			324031252-26			324031252-27			324031252-28		
Client Sample #*	2915728			2915729			2915730			2915731		
Sample Name*	Room 19			Hall By Room 19			Room 21			Room 23		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	ND	n/a	ND	240	n/a	6	40	n/a	1	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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	ND			ND			ND			ND		
Aspergillus/Penicillium	40	2	1	ND			ND			160	6	4
Basidiospores	1880	98	47	3320	100	83	1560	100	39	2400	94	60
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	ND			ND			ND			ND		
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	1920	100	48	3320	100	83	1560	100	39	2560	100	64



AmeriSci Bio-Chem

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

Job # 324031252
 FINAL REPORT

Client: France Environmental, Inc.

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

Client Job #: FEI24MI137
Client Job Name: Southhampton Elementary School; 3333 Cheverly Road Richmond 23225

Date Received: 3/29/2024
Date Reported: 3/30/2024

Air Cassette Analytical Report (SOP # 3.24.01)

AmeriSci Sample #	324031252-29			324031252-30			324031252-31			324031252-32		
Client Sample #*	2915732			2915733			2915734			2915735		
Sample Name*	Room 25			Room 24			Room 22			Room 20		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
Volume (L)*	25			25			25			25		
Limit of Detection (LOD) (Count/M³)	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	120	n/a	3	40	n/a	1	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	40	2	1	ND			ND			ND		
Aspergillus/Penicillium	40	2	1	ND			ND			40	3	1
Basidiospores	2360	97	59	200	100	5	3280	99	82	1360	97	34
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	ND			ND			40	1	1	ND		
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	2440	100	61	200	100	5	3320	100	83	1400	100	35



AmeriSci Bio-Chem

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

Job # 324031252
 FINAL REPORT

Client: France Environmental, Inc.

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

Client Job #: FEI24MI137
Client Job Name: Southhampton Elementary School; 3333 Cheverly Road Richmond 23225

Date Received: 3/29/2024
Date Reported: 3/30/2024

Air Cassette Analytical Report (SOP # 3.24.01)

AmeriSci Sample #	324031252-33			324031252-34			324031252-35			324031252-36		
Client Sample #*	2915736			2915737			2915738			2915739		
Sample Name*	Room 18			Room 16			Room 15			Room 13		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	160	n/a	4	120	n/a	3	40	n/a	1	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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	ND			ND			40	8	1	ND		
Aspergillus/Penicillium	ND			120	6	3	280	54	7	40	2	1
Basidiospores	1400	100	35	1760	94	44	200	38	5	1760	98	44
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	ND			ND			ND			ND		
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	1400	100	35	1880	100	47	520	100	13	1800	100	45

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Job # 324031252**
FINAL REPORT**Client: France Environmental, Inc.****Address:** 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job #:** FEI24MI137
Client Job Name: Southhampton Elementary School; 3333 Cheverly Road Richmond 23225**Date Received:** 3/29/2024
Date Reported: 3/30/2024**Air Cassette Analytical Report (SOP # 3.24.01)**

AmeriSci Sample #	324031252-37			324031252-38			324031252-39			324031252-40		
Client Sample #*	2915740			2915741			2915742			2915743		
Sample Name*	Room 11			Library			Counslers Office			Room 10		
Analysis Date	3/30/2024			3/30/2024			3/30/2024			3/30/2024		
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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	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	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/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count
Ascospores	40	4	1	ND			40	6	1	ND		
Aspergillus/Penicillium	80	7	2	ND			80	12	2	ND		
Basidiospores	1000	89	25	80	100	2	560	82	14	200	100	5
Chaetomium sp.	ND			ND			ND			ND		
Cladosporium sp.	ND			ND			ND			ND		
Myxomycetes	ND			ND			ND			ND		
Pithomyces sp.	ND			ND			ND			ND		
Total Fungal Spores	1120	100	28	80	100	2	680	100	17	200	100	5

**AmeriSci Bio-Chem**13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800**Job # 324031252**
FINAL REPORT**Client: France Environmental, Inc.****Address:** 7834 Forest Hill Ave
Suite 7
Richmond, VA 23225**Client Job #:** FEI24MI137
Client Job Name: Southhampton Elementary School; 3333 Cheverly Road Richmond 23225**Date Received:** 3/29/2024
Date Reported: 3/30/2024**Air Cassette Analytical Report (SOP # 3.24.01)**

AmeriSci Sample #	324031252-41			324031252-42							
Client Sample #*	2915744			2915796							
Sample Name*	Multipurpose Room			Exterior Post Sampling Rear Of Building							
Analysis Date	3/30/2024			3/30/2024							
Volume (L)*	25			25							
Limit of Detection (LOD) (Count/M ³)	40			40							
Background Density	1			1							
Other	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count					
Pollen	ND	n/a	ND	240	n/a	6					
Fibers	200	n/a	5	80	n/a	2					
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND					
Fungal Identification	Count/M ³	%	Raw Count	Count/M ³	%	Raw Count					
Ascospores	80	11	2	1320	10	33					
Aspergillus/Penicillium	ND			80	1	2					
Basidiospores	680	89	17	>12000	90	300					
Chaetomium sp.	ND			ND							
Cladosporium sp.	ND			ND							
Myxomycetes	ND			ND							
Pithomyces sp.	ND			ND							
Total Fungal Spores	760	100	19	13400	100	335					

Notes: Analyzed at AmeriSci Bio-Chem using Olympus, model BH2 microscope, serial #230003. Results relate only to customer supplied items and are reported mathematically to significant figures. ND = None detected.

* Customer supplied data. AmeriSci assumes no responsibility for these items.

Analyzed by: Jill G. Carrillo
Date: 3/30/2024

Reviewed by: Jill G. Carrillo
Date: 3/30/2024



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

Job # 324031252
 FINAL REPORT

Client: France Environmental, Inc.

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

Client Job #: FEI24MI137
Client Job Name: Southhampton Elementary School; 3333
 Cheverly Road Richmond 23225

Date Received: 3/29/2024
Date Reported: 3/30/2024

Direct Fungal Identification (SOP # 3.21.01)

AmeriSci Sample #: 324031252-43		
Client Sample #:	Description:	Analysis Date:
T1*	Room 29 Ceiling Tile *	3/30/2024
Fungal Identification	Estimated Amount	
Cladosporium sp.	Heavy	
Curvularia sp.	Rare	
AmeriSci Sample #: 324031252-44		
Client Sample #:	Description:	Analysis Date:
T2*	Room 26 Ceiling Tile *	3/30/2024
Fungal Identification	Estimated Amount	
No Fungi Detected	None Detected	

Notes: Analyzed at AmeriSci Bio-Chem using Olympus, model BH2 microscope, serial #230003. Minimum reporting limit is no fungi detected. Results relate only to customer items tested.

* Customer supplied data. AmeriSci assumes no responsibility for these items.

Estimated amounts: **Rare:** 1-10 spores; **Light:** 11-100 spores; **Moderate:** 101-200 spores; **Heavy:** 200+ spores.

Analyzed by: Jill G. Carrillo
Date: 3/30/2024

Reviewed by: Jill G. Carrillo
Date: 3/30/2024

324031252



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

Contact Information		
Company: France Environmental		PO#:
Address 7834 Forest Hill Ave Suite #7 Richmond, VA 23225		
Results To: FEI	Fax Results? <input type="checkbox"/>	Fax#:
Phone: 804 716 0560	Email? <input checked="" type="checkbox"/>	Email: FEI Distribution List

Project Information	Turnaround Time Codes
Southhampton Elementary School 3333 Cheverly Road Project Richmond, Virginia 23225 Name: Proj. #: FEI24MI137	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): **3/29/2024**

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915775	Exterior Pre Sampling Front of Building	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915776	Main Office	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915777	Lobby	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915778	Cafeteria	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915779	Kitchen	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915780	Room 30	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915781	Hall By IDF B	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915782	Room 29	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915783	Room 28	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915784	Room 27	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915785	Room 26	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2915786	Short Hall By Room 6	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	3/29/24		

AmeriSci Bio-Chem

MAR 29 2024

AW

324031252



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"/>
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						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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						<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? <input type="checkbox"/>	Fax#:
Phone: 804 716 0560	Email? <input checked="" type="checkbox"/>	Email: FEI Distribution List
Project Information		Turnaround Time Codes
Southhampton Elementary School 3333 Cheverly Road Project Richmond, Virginia 23225 Name: Proj. #: FEI24MI137		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): **3/29/2024**

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2915787	Room 1	ST	STD	25 Liters	
2915788	Room 2	ST	STD	25 Liters	
2915789	Room 3	ST	STD	25 Liters	
2915790	Room 4	ST	STD	25 Liters	
2915791	Room 5	ST	STD	25 Liters	
2915792	Room 6	ST	STD	25 Liters	
2915793	Room 7	ST	STD	25 Liters	
2915794	Room 8	ST	STD	25 Liters	
2915795	Room 9	ST	STD	25 Liters	
2915725	Room 12	ST	STD	25 Liters	
2915726	Room 14	ST	STD	25 Liters	
2915727	Room 17	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	3/29/24		Received
			MAR 29 2024

AmeriSci Bio-Chem

[Signature]

324081252



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"/>
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						<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? <input type="checkbox"/>	Fax#:
Phone: 804 716 0560		Email? <input checked="" type="checkbox"/>	Email: FEI Distribution List
Project Information		Turnaround Time Codes	
Southhampton Elementary School 3333 Cheverly Road Project Richmond, Virginia 23225 Name: Proj. #: FEI24MI137		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): 3/29/2024			

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2915728	Room 19	ST	STD	25 Liters	
2915729	Hall By Room 19	ST	STD	25 Liters	
2915730	Room 21	ST	STD	25 Liters	
2915731	Room 23	ST	STD	25 Liters	
2915732	Room 25	ST	STD	25 Liters	
2915733	Room 24	ST	STD	25 Liters	
2915734	Room 22	ST	STD	25 Liters	
2915735	Room 20	ST	STD	25 Liters	
2915736	Room 18	ST	STD	25 Liters	
2915737	Room 16	ST	STD	25 Liters	
2915738	Room 15	ST	STD	25 Liters	
2915739	Room 13	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
Micheal D. Allshouse	3/29/24

Received By	Date & Time

AmeriSci Bio-Chem

MAR 29 2024
AMW

324031252



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 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"/>

Contact Information

Company: France Environmental PO#: _____
 Address 7834 Forest Hill Ave Suite #7 Richmond, VA 23225
 Results To: FEI Fax Results? Y Fax#: _____
 Phone: 804 716 0560 Email? Y Email: FEI Distribution List

Project Information **Turnaround Time Codes**

Southampton Elementary School
3333 Cheverly Road
Project Richmond, Virginia 23225
Name: Proj. #: FEI24MI137

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): 3/29/2024

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2915740	Room 11	ST	STD	25 Liters	
2915741	Library	ST	STD	25 Liters	
2915742	Counslers Office	ST	STD	25 Liters	
2915743	Room 10	ST	STD	25 Liters	
2915744	Multipurpose Room	ST	STD	25 Liters	
2915796	Exterior Post Sampling Rear of Building	T	STD	25 Liters	
T1	Room 29 Ceiling Tile	T	STD		
T2	Room 26 Ceiling Tile	T	STD		

Sample Type Codes

AP - Andersen Plate
 SW - Swab
 B - Bulk

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

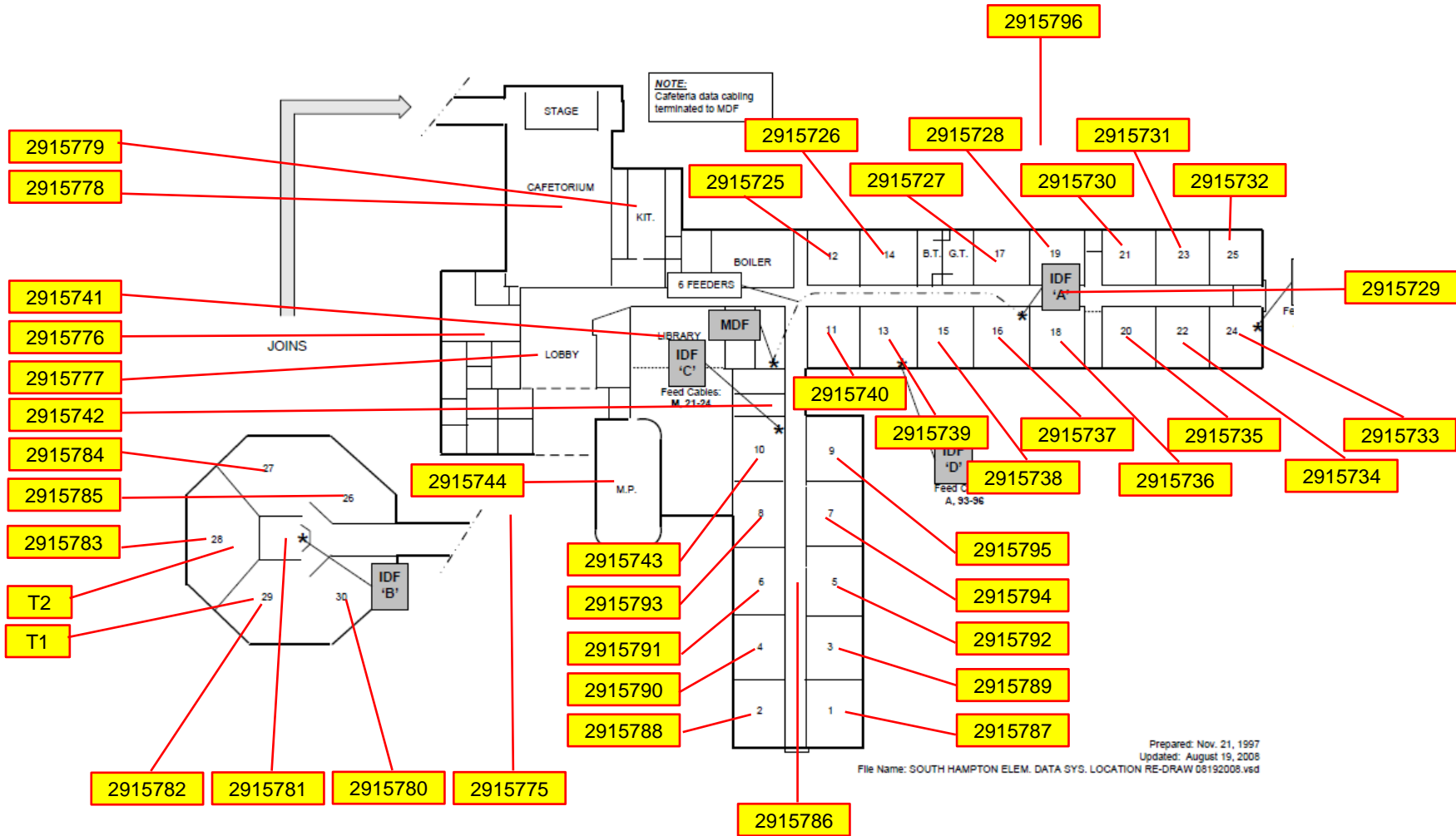
Relinquished By
Micheal D. Allshouse

Date & Time
3/29/24

Received By

Date & Time
MAR 29 2024

SAMPLE LOCATION DRAWINGS



Asbestos Sample Location Drawing
 Southampton Elementary School
 Richmond, Virginia
 FEI Proj: FEI-24MI137 Sampling Date: 3/29/2024

PHOTOGRAPHS OF SITE CONDITIONS



Photograph No. 1
Stained Ceiling Tile - Room 26
(Sample T2 Location)



Photograph No. 2
Visible Mold Growth on Ceiling Tile - Room 29
(Sample T2 Location)



Photograph No. 3

Potential Visible Mold Growth on Ceiling Tile - Multi-Purpose Room



Photograph No. 4

Showing Typical Water Staining of Ceiling Tiles

CHART 1
FUNGAL TYPES AND GROUPS

Chart 1

Fungal Types and Groups

These are brief descriptions for general informational purposes:

- Ascospores (ass-co-spo-res)** 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-spo-res)** 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.
- Chaetomium (k-toe-me-um)** contaminant, rarely involved in systemic and cutaneous disease and sometimes reported to be allergenic. Some species can produce toxins, and there is some research interest on whether these toxins can cause cancer. Primary IAQ importance is currently related to that it will grow in the same conditions as *Stachybotrys* (**wet cellulose**) and amplified amounts in indoor air could be a warning that conditions do exist for *Stachybotrys* growth. Many times on damp sheetrock paper, colonies of *Chaetomium* and *Stachybotrys* will be growing on top of one another or side by side (**this can also be an important consideration when doing tape lifts of sheetrock because most of the time the colonies are not distinguishable by the naked eye-the small area that is sampled might be a pure colony of just *Chaetomium* even though numerous colonies of *Stachybotrys* might exist**).
- 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.
- 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.
- Pithomyces (pith-oh-my-sees)** 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.