



*Environmental Consulting Services*

7834 Forest Hill Avenue, Suite 7, Richmond, Virginia 23225  
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January 28, 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  
***Chimborazo Elementary School (All Rooms)***  
3000 East Marshall Street  
Richmond, Virginia 23223  
FEI Project Number: FEI-23MI679

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 December 28, 2023. The investigation was performed by FEI Industrial Hygienists, Mr. Micheal D. Allshouse and Mr. Mathew H. Dennis.

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 Drawing; 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 and associated ceiling tiles are showing a light to moderate dust load.
- Visible staining located on the Pipe Insulation located in Hallway Between Wings

**TOTAL FUNGAL AIR SAMPLING:**

On December 28, 2023, FEI collected a total of fifty-four (54) airborne fungal (mold) spore samples from the following areas:

- All Classrooms, Offices, Common Areas, Kitchen, Cafeteria, Clinic, Gymnatorium, Break Rooms, Labs and Media Center.
- Three (3) 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, mid-day afternoon 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/M<sup>3</sup>) 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 spores’ types were detected in any of the indoor air samples analyzed.

**TOTAL FUNGAL SURFACE SAMPLING:**

No tape lift sampling was needed as no suspect visible mold growth was observed.

**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 66.3°F to 86.6°F. The temperatures measured outside were 57.2°F in the morning, 61.2°F mid-day and 64.4°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 27.1% to 51.1%. The outside humidity readings were 62.3% in the morning, 54.8% mid-day and 49.8% 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.
- 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.**



Micheal D. Allshouse  
Industrial Hygienist



Joseph T. France  
Project Manager

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

**MOLD AIR CASSETTE ANALYTICAL LABORATORY  
RESULTS**



**AmeriSci Bio-Chem**

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

**Analyzed By:**  
Justin B. Liverman

AmeriSci Job #:  
**323121085**  
FINAL REPORT

**Client: France Environmental, Inc.**

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

**Client Job#:** FEI-23MI679  
**Client Job Name:** City of Richmond Public Schools  
(CORPS); Chimborazo Elementary  
School; 3000 E. Marshall Street,  
Richmond, VA 23225

**Date Received:** 12/28/23  
**Date Reported:** 12/29/23

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-01			323121085-02			323121085-03			323121085-04		
Sample Number	2915975			2915988			2915999			2915976		
Sample Name	Pre-Sampling Exterior Front By Main Entrance			Mid-Sampling Rear By Door 25			Post-Sampling Front By Playground			1st Floor, Main Office		
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 <sup>3</sup> )	40			40			40			40		
Background Density	2			2			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	40	n/a	1	ND	n/a	ND
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			40	3	1	ND			ND		
Aspergillus/Penicillium	40	6	1	80	6	2	40	17	1	ND		
Basidiospores	600	83	15	760	58	19	160	67	4	ND		
Cladosporium sp.	80	11	2	400	30	10	40	17	1	40	100	1
Myxomycetes/Periconia/Smuts	ND			40	3	1	ND			ND		
<b>Total Fungal Spores</b>	<b>720</b>	<b>100</b>	<b>18</b>	<b>1320</b>	<b>100</b>	<b>33</b>	<b>240</b>	<b>100</b>	<b>6</b>	<b>40</b>	<b>100</b>	<b>1</b>

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 #:  
**323121085**  
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(CORPS); Chimborazo Elementary  
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Richmond, VA 23225**Date Received:** 12/28/23**Date Reported:** 12/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-05			323121085-06			323121085-07			323121085-08		
Sample Number	2915977			2915978			2915979			2915980		
Sample Name	1st Floor, Room 122			1st Floor, Room 123			1st Floor, Room 124			1st Floor, Room 125		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	ND	n/a	ND	80	n/a	2
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			120	17	3
Basidiospores	ND			ND			ND			ND		
Cladosporium sp.	120	100	3	40	100	1	ND			600	83	15
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>120</b>	<b>100</b>	<b>3</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>720</b>	<b>100</b>	<b>18</b>

ND = None Detected



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13635 GENITO ROAD  
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**Analyzed By:**  
 Justin B. Liverman

AmeriSci Job #:  
**323121085**  
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AmeriSci Number	323121085-09			323121085-10			323121085-11			323121085-12		
Sample Number	2915981			2915982			2915983			2915984		
Sample Name	1st Floor, Gymtorium			1st Floor, Dining/Cafeteria			1st Floor, Kitchen			1st Floor, Room 120		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	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
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	ND			ND			ND			ND		
Cladosporium sp.	ND			40	100	1	40	100	1	120	100	3
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>120</b>	<b>100</b>	<b>3</b>

ND = None Detected





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AmeriSci Job #:  
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AmeriSci Number	323121085-13			323121085-14			323121085-15			323121085-16		
Sample Number	2915985			2915986			2915987			2915989		
Sample Name	1st Floor, Room 120			1st Floor Hall By Dining/Cafeteria			1st Floor Hall By Room 124			1st Floor Hall Between Wings		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	40	n/a	1	ND	n/a	ND
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	ND			40	50	1	ND			ND		
Cladosporium sp.	40	100	1	40	50	1	40	100	1	ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

ND = None Detected



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FINAL REPORT

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**Date Received:** 12/28/23  
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**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-17			323121085-18			323121085-19			323121085-20		
Sample Number	2915990			2915991			2915992			2915993		
Sample Name	1st Floor, Room 101			1st Floor, Room 102			1st Floor, Room 103			1st Floor, Room 104		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			2		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	40	n/a	1	120	n/a	3
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	ND			40	25	1	ND			ND		
Cladosporium sp.	ND			120	75	3	40	100	1	80	100	2
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>160</b>	<b>100</b>	<b>4</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>80</b>	<b>100</b>	<b>2</b>

ND = None Detected



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13635 GENITO ROAD  
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**Analyzed By:**  
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AmeriSci Number	323121085-21			323121085-22			323121085-23			323121085-24		
Sample Number	2915994			2915995			2915996			2915997		
Sample Name	1st Floor, Room 105			1st Floor, Room 106			1st Floor, Room 127			1st Floor, Room 107		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			2			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	40	n/a	1
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	ND			ND			40	50	1	40	50	1
Cladosporium sp.	ND			40	100	1	40	50	1	40	50	1
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>80</b>	<b>100</b>	<b>2</b>

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 #:  
**323121085**  
 FINAL REPORT

**Client: France Environmental, Inc.**

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

**Client Job#:** FEI-23MI679  
**Client Job Name:** City of Richmond Public Schools  
 (CORPS); Chimborazo Elementary  
 School; 3000 E. Marshall Street,  
 Richmond, VA 23225

**Date Received:** 12/28/23  
**Date Reported:** 12/29/23

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-25			323121085-26			323121085-27			323121085-28		
Sample Number	2915998			2916196			2916197			2916198		
Sample Name	1st Floor, Room 108			1st Floor Hall By Room 108			1st Floor, Room 109			1st Floor, Room 110		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	ND	n/a	ND	40	n/a	1	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
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	ND			ND			ND			40	100	1
Cladosporium sp.	40	100	1	80	100	2	ND			ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>40</b>	<b>100</b>	<b>1</b>

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 #:  
**323121085**  
 FINAL REPORT

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

**Client Job#:** FEI-23MI679  
**Client Job Name:** City of Richmond Public Schools  
 (CORPS); Chimborazo Elementary  
 School; 3000 E. Marshall Street,  
 Richmond, VA 23225

**Date Received:** 12/28/23  
**Date Reported:** 12/29/23

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-29			323121085-30			323121085-31			323121085-32		
Sample Number	2916199			2916200			2916201			2916202		
Sample Name	1st Floor, Room 111			1st Floor, Room 112			1st Floor, Room 113			1st Floor, Teachers Lounge		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	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
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	ND			ND			ND			40	50	1
Cladosporium sp.	ND			ND			ND			40	50	1
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>80</b>	<b>100</b>	<b>2</b>

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 #:  
**323121085**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI679**Client Job Name:** City of Richmond Public Schools  
(CORPS); Chimborazo Elementary  
School; 3000 E. Marshall Street,  
Richmond, VA 23225**Date Received:** 12/28/23**Date Reported:** 12/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-33			323121085-34			323121085-35			323121085-36		
Sample Number	2916203			2916204			2916205			2916206		
Sample Name	1st Floor, Room 114			1st Floor, Room 115			1st Floor, Room 116			1st Floor, Room 117		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
Fibers	120	n/a	3	40	n/a	1	80	n/a	2	ND	n/a	ND
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	ND			ND			ND			ND		
Cladosporium sp.	80	100	2	40	100	1	120	100	3	40	100	1
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>120</b>	<b>100</b>	<b>3</b>	<b>40</b>	<b>100</b>	<b>1</b>

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 #:  
**323121085**  
FINAL REPORT**Client: France Environmental, Inc.**Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225**Client Job#:** FEI-23MI679  
**Client Job Name:** City of Richmond Public Schools  
(CORPS); Chimborazo Elementary  
School; 3000 E. Marshall Street,  
Richmond, VA 23225**Date Received:** 12/28/23**Date Reported:** 12/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-37			323121085-38			323121085-39			323121085-40		
Sample Number	2916207			2916208			2916209			2916210		
Sample Name	1st Floor, Room 118			1st Floor, Room 119B			1st Floor, Room 119A			2nd Floor Hall By Room 208		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	40	n/a	1
Fibers	40	n/a	1	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	40	n/a	1
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			40	50	1	ND			40	25	1
Basidiospores	ND			ND			ND			40	25	1
Cladosporium sp.	ND			40	50	1	40	100	1	80	50	2
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>160</b>	<b>100</b>	<b>4</b>

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 #:  
**323121085**  
 FINAL REPORT

**Client: France Environmental, Inc.**

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

**Client Job#:** FEI-23MI679  
**Client Job Name:** City of Richmond Public Schools  
 (CORPS); Chimborazo Elementary  
 School; 3000 E. Marshall Street,  
 Richmond, VA 23225

**Date Received:** 12/28/23

**Date Reported:** 12/29/23

**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-41			323121085-42			323121085-43			323121085-44		
Sample Number	2916211			2916212			2916213			2916214		
Sample Name	2nd Floor Hall By Room 204			2nd Floor, Room 204			2nd Floor, Room 204A			2nd Floor, Room 205		
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 <sup>3</sup> )	40			40			40			40		
Background Density	2			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	40	n/a	1	ND	n/a	ND
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			ND		
Basidiospores	40	25	1	ND			ND			40	33	1
Cladosporium sp.	120	75	3	40	100	1	40	100	1	40	33	1
Myxomycetes/Periconia/Smuts	ND			ND			ND			40	33	1
<b>Total Fungal Spores</b>	<b>160</b>	<b>100</b>	<b>4</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>120</b>	<b>100</b>	<b>3</b>

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 #:  
**323121085**  
FINAL REPORT**Client: France Environmental, Inc.****Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225****Client Job#:** FEI-23MI679  
**Client Job Name:** City of Richmond Public Schools  
(CORPS); Chimborazo Elementary  
School; 3000 E. Marshall Street,  
Richmond, VA 23225**Date Received:** 12/28/23**Date Reported:** 12/29/23**Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-45			323121085-46			323121085-47			323121085-48		
Sample Number	2916215			2916216			2916217			2916218		
Sample Name	2nd Floor, Room 206			2nd Floor, Room 207			2nd Floor, Room 208			2nd Floor, Room 201A		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			1			1			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Pollen	ND	n/a	ND	40	n/a	1	ND	n/a	ND	ND	n/a	ND
Fibers	40	n/a	1	40	n/a	1	160	n/a	4	160	n/a	4
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			ND			ND			40	25	1
Basidiospores	ND			ND			40	33	1	40	25	1
Cladosporium sp.	40	100	1	ND			80	67	2	80	50	2
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>120</b>	<b>100</b>	<b>3</b>	<b>160</b>	<b>100</b>	<b>4</b>

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 #:  
**323121085**  
FINAL REPORT**Client: France Environmental, Inc.****Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225****Client Job#: FEI-23MI679**  
**Client Job Name: City of Richmond Public Schools  
(CORPS); Chimborazo Elementary  
School; 3000 E. Marshall Street,****Date Received: 12/28/23**  
**Date Reported: 12/29/23****Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number	323121085-49			323121085-50			323121085-51			323121085-52		
Sample Number	2916219			2916220			2916221			2916222		
Sample Name	2nd Floor, Library/Media Center			2nd Floor, Tech Lab			2nd Floor Hall By Room 201A			2nd Floor, Room 201		
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 <sup>3</sup> )	40			40			40			40		
Background Density	1			2			2			1		
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
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	240	n/a	6	40	n/a	1
Mycelial Fragments	ND	n/a	ND	40	n/a	1	ND	n/a	ND	ND	n/a	ND
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>
Alternaria sp.	ND			ND			ND			ND		
Aspergillus/Penicillium	ND			40	25	1	40	20	1	ND		
Basidiospores	ND			40	25	1	40	20	1	ND		
Cladosporium sp.	80	100	2	80	50	2	120	60	3	ND		
Myxomycetes/Periconia/Smuts	ND			ND			ND			ND		
<b>Total Fungal Spores</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>160</b>	<b>100</b>	<b>4</b>	<b>200</b>	<b>100</b>	<b>5</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>

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 #:  
**323121085**  
FINAL REPORT**Client: France Environmental, Inc.****Address: 7834 Forest Hill Ave  
Suite 7  
Richmond, VA 23225****Client Job#: FEI-23MI679**  
**Client Job Name: City of Richmond Public Schools  
(CORPS); Chimborazo Elementary  
School; 3000 E. Marshall Street,****Date Received: 12/28/23**  
**Date Reported: 12/29/23****Air Cassette Analytical Report (SOP# 3.24.01)**

AmeriSci Number		323121085-53			323121085-54								
Sample Number	2916223			2916224									
Sample Name	2nd Floor, Room 202			2nd Floor, Room 203									
Analysis Date	12/29/2023			12/29/2023									
Volume (L)	25			25									
Limit of Detection (LOD) (Count/M <sup>3</sup> )	40			40									
Background Density	2			1									
<b>Other</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	
Pollen	ND	n/a	ND	40	n/a	1							
Fibers	80	n/a	2	40	n/a	1							
Mycelial Fragments	ND	n/a	ND	ND	n/a	ND							
<b>Fungal Identification</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>%</b>	<b>Raw Count</b>	
Alternaria sp.	ND			ND									
Aspergillus/Penicillium	ND			ND									
Basidiospores	40	50	1	40	50	1							
Cladosporium sp.	40	50	1	40	50	1							
Myxomycetes/Periconia/Smuts	ND			ND									
<b>Total Fungal Spores</b>	<b>80</b>	<b>100</b>	<b>2</b>	<b>80</b>	<b>100</b>	<b>2</b>							

ND = None Detected

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

Name/Title: Justin B. Liverman / AnalystName/Title: Justin B. Liverman / Analyst

Signature:

Reviewed By:

Date: 12/29/23Date: 12/29/23

329 101085



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"/>
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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"/>
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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"/>

**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)  
 Chimborazo Elementary School  
 Project Name: 3000 E. Marshall Street  
 Richmond, Virginia 23223  
 Proj. #: FEI-23MI679

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): 12/28/23

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2915975	Pre-Sampling Exterior Front by Main Entrance	ST	STD	25 Liters	
2915988	Mid-Sampling Rear By Door 25	ST	STD	25 Liters	
2915999	Post-Sampling Front By Playground	ST	STD	25 Liters	
2915976	1st Floor, Main Office	ST	STD	25 Liters	
2915977	1st Floor, Room 122	ST	STD	25 Liters	
2915978	1st Floor, Room 123	ST	STD	25 Liters	
2915979	1st Floor, Room 124	ST	STD	25 Liters	
2915980	1st Floor, Room 125	ST	STD	25 Liters	
2915981	1st Floor, Gymtorium	ST	STD	25 Liters	
2915982	1st Floor, Dining/Cafeteria	ST	STD	25 Liters	
2915983	1st Floor, Kitchen	ST	STD	25 Liters	
2915984	1st Floor, Room 120	ST	STD	25 Liters	

**Sample Type Codes**

AP - Andersen Plate  
 SW - Swab  
 B - Bulk

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

**Relinquished By**      **Date & Time**

Micheal D. Allshouse      12/28/23

**Received By**      **Date & Time**

Received

DEC 28 2023

TMM pg 1

329 121085



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? <input type="checkbox"/>	Fax#:
Phone: 804 716 0560	Email? <input checked="" type="checkbox"/>	Email: FEI Distribution List

Project Information	Turnaround Time Codes
City of Richmond Public Schools (CORPS) Chimborazo Elementary School Project Name: 3000 E. Marshall Street Richmond, Virginia 23223 Proj. #: FEI-23MI679	<b>STD</b> - Standard: 2 Days (Non-viable) <b>24</b> - 24: 24 Hours (Non-viable) <b>R</b> - Rush: 6 hours (Non-viable) <b>C</b> - Culture: 7-14 Days <b>W</b> - 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): <b>12/28/23</b>	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2915985	1st Floor, Room 120	ST	STD	25 Liters	
2915986	1st Floor Hall By Dining/Cafeteria	ST	STD	25 Liters	
2915987	1st Floor Hall By Room 124	ST	STD	25 Liters	
2915989	1st Floor Hall Between Wings	ST	STD	25 Liters	
2915990	1st Floor, Room 101	ST	STD	25 Liters	
2915991	1st Floor, Room 102	ST	STD	25 Liters	
2915992	1st Floor, Room 103	ST	STD	25 Liters	
2915993	1st Floor, Room 104	ST	STD	25 Liters	
2915994	1st Floor, Room 105	ST	STD	25 Liters	
2915995	1st Floor, Room 106	ST	STD	25 Liters	
2915996	1st Floor, Room 127	ST	STD	25 Liters	
2915997	1st Floor, Room 107	ST	STD	25 Liters	

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

Relinquished By	Date & Time	Received By	Date & Time
Micheal D. Allshouse	12/28/23		
			Received

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TJM pg 2

328 121085



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? <input type="checkbox"/>	Fax#:
Phone: 804 716 0560	Email? <input checked="" type="checkbox"/>	Email: FEI Distribution List

Project Information	Turnaround Time Codes
City of Richmond Public Schools (CORPS) Chimborazo Elementary School Project Name: 3000 E. Marshall Street Richmond, Virginia 23223 Proj. #: FEI-23MI679	<b>STD</b> - Standard: 2 Days (Non-viable) <b>24</b> - 24: 24 Hours (Non-viable) <b>R</b> - Rush: 6 hours (Non-viable) <b>C</b> - Culture: 7-14 Days <b>W</b> - 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): <b>12/28/23</b>	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2915998	1st Floor, Room 108	ST	STD	25 Liters	
2916196	1st Floor Hall By Room 108	ST	STD	25 Liters	
2916197	1st Floor, Room 109	ST	STD	25 Liters	
2916198	1st Floor, Room 110	ST	STD	25 Liters	
2916199	1st Floor, Room 111	ST	STD	25 Liters	
2916200	1st Floor, Room 112	ST	STD	25 Liters	
2916201	1st Floor, Room 113	ST	STD	25 Liters	
2916202	1st Floor, Teachers Lounge	ST	STD	25 Liters	
2916203	1st Floor, Room 114	ST	STD	25 Liters	
2916204	1st Floor, Room 115	ST	STD	25 Liters	
2916205	1st Floor, Room 116	ST	STD	25 Liters	
2916206	1st Floor, Room 117	ST	STD	25 Liters	

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

Relinquished By	Date & Time	Received By	Date & Time
Micheal D. Allshouse	12/28/23		
			Received

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**323 121085**  
 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
City of Richmond Public Schools (CORPS) Chimborazo Elementary School Project Name: 3000 E. Marshall Street Richmond, Virginia 23223 Proj. #: FEI-23MI679	<b>STD</b> - Standard: 2 Days (Non-viable) <b>24</b> - 24: 24 Hours (Non-viable) <b>R</b> - Rush: 6 hours (Non-viable) <b>C</b> - Culture: 7-14 Days <b>W</b> - 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): <b>12/28/23</b>	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)					
2916207	1st Floor, Room 118	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916208	1st Floor, Room 119B	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916209	1st Floor, Room 119A	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916210	2nd Floor Hall By Room 208	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916211	2nd Floor Hall By Room 204	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916212	2nd Floor, Room 204	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916213	2nd Floor, Room 204A	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916214	2nd Floor, Room 205	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916215	2nd Floor, Room 206	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916216	2nd Floor, Room 207	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916217	2nd Floor, Room 208	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2916218	2nd Floor, Room 201A	ST	STD	25 Liters		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Relinquished By	Date & Time
Micheal D. Allshouse	12/28/23

Received By	Date & Time
Received	

DEC 29 2023  
 TM pg 4

323 121085



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	<table border="1"> <tr> <td>Fungal Genus Identification - Qualitative</td> <td>Environmental Fungal Genus ID &amp; Enumeration</td> <td>Environmental Bacterial Enumeration &amp; Gram Stain ID</td> <td>Fungal Speciation - Scheduled in Advance Only</td> <td>Bacterial speciation - Scheduled in Advance Only</td> </tr> </table>	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
		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 checked="" 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 checked="" 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 checked="" 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"/>		

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
City of Richmond Public Schools (CORPS) Chimborazo Elementary School Project 3000 E. Marshall Street Name: Richmond, Virginia 23223 Proj. #: FEI-23MI679	<b>STD</b> - Standard: 2 Days (Non-viable) <b>24</b> - 24: 24 Hours (Non-viable) <b>R</b> - Rush: 6 hours (Non-viable) <b>C</b> - Culture: 7-14 Days <b>W</b> - 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): 12/28/23	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume/Area (as applicable)	Notes: (Time, Temp, Etc.)
2916219	2nd Floor, Library/Media Center	ST	STD	25 Liters	
2916220	2nd Floor, Tech Lab	ST	STD	25 Liters	
2916221	2nd Floor Hall By Room 201A	ST	STD	25 Liters	
2916222	2nd Floor, Room 201	ST	STD	25 Liters	
2916223	2nd Floor, Room 202	ST	STD	25 Liters	
2916224	2nd Floor, Room 203	ST	STD	25 Liters	

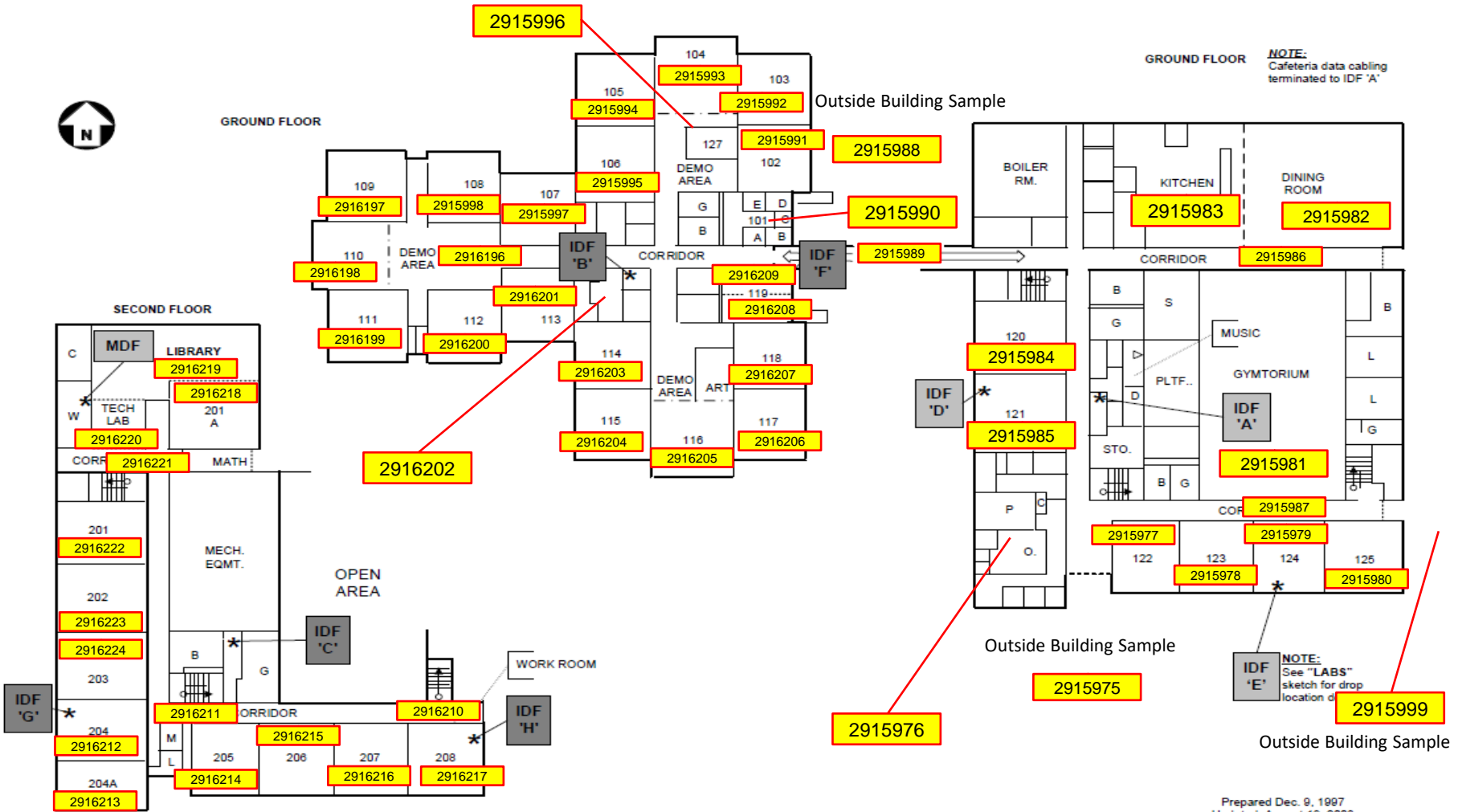
Sample Type Codes	
AP - Andersen Plate	T - Tape
SW - Swab	ST - Spore Trap: Zefon, Micro5, Cyclex-d, etc.
B - Bulk	

Relinquished By	Date & Time
Micheal D. Allshouse	12/28/23

Received By	Date & Time



**DRAWING INDICATING SAMPLE LOCATIONS**



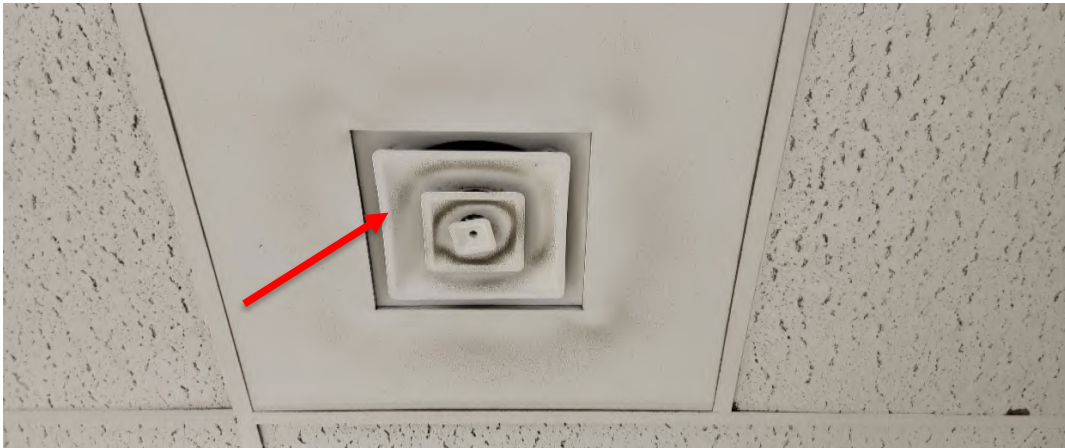
**Moisture & Mold Assessment Sample  
 Location Drawing**  
 Chimborazo Elementary School  
 Richmond, Virginia  
 FEI Project #: FEI-23MI679 Survey Date: 12/28/2023

## **PHOTOGRAPHS OF SITE CONDITIONS**



**Photograph No. 1**

Showing Typical Stained Lay-In Ceiling Tiles Located Throughout 1st Floor



**Photograph No. 2**

Showing Typical Dust Loading on Ceiling Diffusers Throughout School



**Photograph No. 3**

Visible Staining Located on the Pipe Insulation Located in Hallway - Between Wings

**CHART 1**  
**FUNGAL TYPES AND GROUPS**

# Chart 1

## Fungal Types and Groups

These are brief descriptions for general informational purposes:

- Alternaria* (all-tur-nair-ee-uh)** common allergen/contaminant/opportunistic pathogen, one of the most common molds found worldwide in soil and on plants and can commonly be found indoors (frequently appearing black on window frames). It is an important airborne allergen and common agent for hay fever, asthma, and other allergy related symptoms.
- 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*).
- 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.
- 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.
- 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.
- Smuts*** 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.