

March 1, 2021

Prince George's County Public Schools  
Environmental Safety Office  
13306 Old Marlboro Pike  
Upper Marlboro, MD 20772

Attention: Alex Baylor  
alex.baylor@pgcps.org

Subject: Indoor Air Quality Survey  
Francis T. Evans Elementary School  
6720 Old Alexandria Ferry Road  
Clinton, MD 20735

Mr. Baylor:

On February 3, 2021 and February 17, 2021 a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Francis T. Evans Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 6720 Old Alexandria Ferry Road, Clinton, MD 20735. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

### **Corrective Measures Implemented by PGPCS**

On February 17, 2021, as part of this assessment, SaLUT conducted the IAQ evaluation, including IAQ instrumentation screening, and observations in affected areas. Prior to this assessment, in response to an initial assessment, DGS implemented the following corrective measures in the Main office and Classroom 31:

1. Identify and clearly assess the affected area;
2. Remove and replace moldy and stained ceiling tiles;
3. Thorough cleanup throughout the affected areas;
4. Operate air scrubbers with HEPA filters in the impacted areas;
5. Monitor and evaluate clean-up operation to determine effectiveness.

## Methodology

The IAQ evaluation conducted by SaLUT included a visual assessment, IAQ instrumentation screening, and a collection of interior air samples for mold in representative locations throughout the building. Additionally, one building exterior environmental air sample was taken for comparison.

Air-borne fungal spore samples were collected on *Air-O-Cell* cassettes using a Buck BioAire calibrated pump. The air samples were taken between three and five feet from the ground. In tandem with collecting mold samples, real-time readings for carbon dioxide, carbon monoxide, temperature and relative humidity were collected using a Fluke 975 Air Meter in representative areas within the facility.

The fungal spore air samples were delivered to EMSL Analytical, Inc. of Beltsville, Maryland for analysis. Fungal spores and particulates in air samples were analyzed by Optical Microscopy (methods EMSL 05-TP-003 and ASTM D7391). The sample chain-of-custody and laboratory reports are attached.

## Observations

The table below summarizes the main observations from the IAQ survey at Francis T. Evans Elementary School, visited on February 3, 2021. And February 17, 2021, respectively.

**Table 1.1-Observations**

Location	Summary of Observations 02-3-2021
Classroom 31	2' x 2' ceiling tiles and 12" x 12" and 9" x 9" tile floor; Water Stained ceiling ; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Classroom 53	2' x 2' ceiling tiles and 12" x 12" tile floor; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Multi-Purpose Room	2' x 4' ceiling tiles and 12" x 12" tile floor; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.

Main Office	2' x 4' ceiling tiles and 12" x 12" tile floor; Water Stained ceiling ; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Library	2' x 4' ceiling tiles and 12" x 12" tile floor; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Outside Exterior EV Sample	Cloudy, chilly and windy

**Table 1.2-Observations**

Location	Summary of Observations 02-17-2021
Main office	2'x4' ceiling tiles and 1'x1' tile floor; No visual signs of microbial growth, and no odor; Stained ceiling tiles were replaced;
Classroom 31	2'x4' ceiling tiles and 1'x1' tile floor; No visual signs of microbial growth, and no odor; Stained ceiling tiles were replaced
Outside Exterior EV Sample	It was sunny, windy, chilly and clear sky

### **Measurements of Indoor Environmental Quality Parameters**

Table 2 depicts a summary of average measurements of comfort.

#### **Temperature**

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) have published recommendations for year round acceptable temperatures in Standard 55-2010 *Thermal Environmental Conditions for Human Occupancy*. The winter comfort range is 20 to 24°C (68 to 75°F) and 23 to 26°C (73 to 79°F) is the summer comfort range. The temperature readings were within the ASHRAE recommended.

#### **Relative Humidity (RH)**

RH is a key factor for mold growth. Mold has the potential of growing on suitable surfaces with humidity levels above 60%. ASHRAE Standard 62.1-2010 *Ventilation for Acceptable Indoor Air Quality* recommends a maximum indoor RH of 65% to preclude the likelihood of condensation on cool surfaces encouraging mold growth. The RH readings were within the ASHRAE recommended ranges in the representative areas.

#### **Carbon Dioxide (CO<sub>2</sub>)**

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO<sub>2</sub> upper limit is the prevailing outdoor CO<sub>2</sub> concentration

plus 700 parts per million (ppm). On February 3, 2021, the outdoor (building exterior) CO<sub>2</sub> concentration was approximately 492 ppm therefore indoor concentrations should not exceed approximately 1,192 ppm (700 + 492). The maximum average interior CO<sub>2</sub> concentration detected was 531 ppm in Classroom 31, a range within the ASHRAE recommendations, per Table 2 below.

### **Carbon Monoxide (CO)**

CO is a colorless and odorless gas that is produced by the incomplete combustion of carbon containing fuels. Oil, gasoline, diesel fuels, wood, coke, and coal are major sources of CO. All registered CO concentrations were below the EPA National Ambient Air Quality Standard (NAAQS) of 9 ppm, per Table 2.1 below.

**Table 2.1: Francis T. Evans Elementary School-Instrumental Screening Levels  
February 3, 2021 (9:30 AM-11:30 AM)**

Sample Location	Temp °F	RH%	CO ppm	CO <sub>2</sub> ppm
Standards	ASHRAE 68 to 75°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,192
Classroom 31	69.8	24.9	0	531
Classroom 53	70.7	27.2	0	465
Multi-Purpose Room	68.8	31.9	0	466
Main Office	68.3	29.4	0	473
Library	68.9	25.7	0	475
Outside Exterior EV Sample	48.2	40.2	0	492

**Table 2.2: Francis T. Evans Elementary School-Instrumental Screening Levels  
February 17, 2021 (9:30 AM-11:30 AM)**

Sample Location Standards	Temp °F	RH%	CO ppm	CO <sub>2</sub> ppm
Standards	ASHRAE 68 to 75°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,127
Main office	66.2	23.3	0	553
Classroom 31	66.2	22.5	0	504
Outside Exterior EV Sample	44.6	26.3	0	444

PM - Particulate Matter size  
 °F - Degrees Fahrenheit  
 CO - Carbon Monoxide  
 ppm - parts per million

µg/m<sup>3</sup> - micrograms per cubic meter  
 RH% - % Relative Humidity  
 CO<sub>2</sub> - Carbon Dioxide  
 \* - Winter Comfort Range

### Mold-in-Air Samples

There are no definitive regulations or standardized guidelines for addressing airborne mold in an indoor setting. If building systems (ventilation, envelope) are functioning properly, the indoor population profile should mimic what is encountered outdoors and the concentrations should be below the outdoor (building exterior) environmental sample levels.

**Table 3.1:** Summarizes airborne mold spore sampling results and locations. On February 3, 2021, total mold counts in representative samples (spore count/m<sup>3</sup> of air) in all the areas inspected were lower than the outdoor concentrations with the exception of Classroom 31 and Main Office. Laboratory analysis follows this report (see attachment).  
**Table 3.2:** Summarizes airborne mold spore sampling results and locations. On February 17, 2021, total mold counts in representative samples (spore count/m<sup>3</sup> of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

**Table 3.1: Francis T. Evans Elementary School  
 Measurements of Mold-in-Air Samples  
 February 3, 2021 (9:30 AM-11:30 AM)**

Spore Types	Classroom 31	Classroom 53	Multi-Purpose Room	Main Office
<i>Alternaria (Ulocladium)</i>	-	-	-	-
<i>Ascospores</i>	-	-	-	-
<i>Aspergillus/Penicillium</i>	-	-	-	-
<i>Basidiospores</i>	40	-	40	200
<i>Bipolaris++</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Cladosporium</i>	40	-	-	940
<i>Curvularia</i>	-	-	-	-
<i>Epicoccum</i>	-	-	-	-
<i>Fusarium</i>	-	-	-	-
<i>Ganoderma</i>	-	-	-	-
<i>Myxomycetes++</i>	40	-	-	-
<i>Pithomyces++</i>	-	-	-	-
<i>Rust</i>	-	-	-	-
<i>Scopulariopsis/Microascus</i>	-	-	-	-
<i>Stachybotrys/Memnoniella</i>	-	-	-	80
<i>Unidentifiable Spores</i>	-	-	-	-
<i>Zygomycetes</i>	-	-	-	-
<i>Nigrospora</i>	-	-	-	-
<i>Hyphal Fragment</i>	-	-	-	10*
<i>Insect Fragment</i>	80	-	40	40
<i>Pollen</i>	-	-	-	-
<b>Total Fungi</b>	<b>200</b>	<b>None Detect</b>	<b>80</b>	<b>1,270</b>

\* Spore Counts per cubic meter of air (Counts/m<sup>3</sup>).

++Includes other spores with similar morphology.

**Table 3.1: Francis T. Evans Elementary School  
Measurements of Mold-in-Air Samples continued  
February 3, 2021 (9:30 AM-11:30 AM)**

Spore Types	Library	Outside Exterior EV Sample	Field Blank	
<i>Alternaria (Ulocladium)</i>	-	-	-	
<i>Ascospores</i>	-	-	-	
<i>Aspergillus/Penicillium</i>	-	-	-	
<i>Basidiospores</i>	-	40	-	
<i>Bipolaris++</i>	-	-	-	
<i>Chaetomium</i>	-	-	-	
<i>Cladosporium</i>	80	-	-	
<i>Curvularia</i>	-	-	-	
<i>Epicoccum</i>	-	-	-	
<i>Fusarium</i>	-	-	-	
<i>Ganoderma</i>	-	-	-	
<i>Myxomycetes++</i>	-	-	-	
<i>Pithomyces++</i>	-	-	-	
<i>Rust</i>	-	-	-	
<i>Scopulariopsis/Microascus</i>	-	-	-	
<i>Stachybotrys/Memnoniella</i>	-	-	-	
<i>Unidentifiable Spores</i>	-	-	-	
<i>Zygomycetes</i>	-	-	-	
<i>Nigrospora</i>	-	-	-	
<i>Hyphal Fragment</i>	40	10*	-	
<i>Insect Fragment</i>	-	-	-	
<i>Pollen</i>	-	-	-	
<b>Total Fungi</b>	<b>120</b>	<b>50</b>	<b>No Trace</b>	

\*Spore Counts per cubic meter of air (Counts/m<sup>3</sup>).

++Includes other spores with similar morphology.

**Table 3.2: Francis T. Evans Elementary School  
Measurements of Mold-in-Air Samples continued**

**February 17, 2021 (9:30 AM-11:30 AM)**

<b>Spore Types</b>	<b>Main office</b>	<b>Classroom 31</b>	<b>Outside Exterior EV Sample</b>	<b>Field Blank</b>
<i>Alternaria (Ulocladium)</i>	-	-	40	-
<i>Ascospores</i>	-	-	-	-
<i>Aspergillus/Penicillium</i>	-	-	-	-
<i>Basidiospores</i>	40	-	-	-
<i>Bipolaris++</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Cladosporium</i>	-	-	90	-
<i>Curvularia</i>	-	-	-	-
<i>Epicoccum</i>	-	-	10*	-
<i>Fusarium</i>	-	-	-	-
<i>Ganoderma</i>	-	-	-	-
<i>Myxomycetes++</i>	-	-	200	-
<i>Pithomyces++</i>	-	-	-	-
<b>Rust</b>	--	-	40	-
<i>Scopulariopsis/Microascus</i>	-	-	-	-
<i>Stachybotrys/Memnoniella</i>	-	-	-	-
<i>Unidentifiable Spores</i>	-	-	-	-
<i>Zygomycetes</i>	-	-	-	-
<i>Nigrospora</i>	-	-	-	-
<i>Hyphal Fragment</i>	-	-	-	-
<i>Insect Fragment</i>	-	-	-	-
<i>Pollen</i>	40	-	-	-
<b>Total Fungi</b>	40	None Detect	420	No Trace


### **Findings and Conclusions**

The comfort parameters (i.e., temperature, RH, CO<sub>2</sub>, and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines. On February 3, 2021 total mold counts in representative area samples (spore count/m<sup>3</sup> of air) in all the areas inspected were lower than the outdoor concentrations with the exception of Classroom 31 and Main Office, indicating amplified mold growth.

On February 17, 2021, total mold counts in air samples (spore count/m<sup>3</sup> of air) in the Classroom 31 and Main Office were significantly lower than the outdoor concentrations, indicating no amplified mold growth. Based on the observations, mold spore results, and the results of the indoor air quality parameters tested, the corrective actions implemented were determined to be effective.

Thank you for the opportunity to provide industrial hygiene services for PGCPs. If you have any questions, please contact me at 301.595.3783.

Sincerely,



Chaminda Jayatilake, PE, CIH, CSP, CHMM  
Certified Industrial Hygienist  
Soil and Land Use Technology Inc. (SaLUT)

**Attachment**

Attachment - Mold Spore Sample Analytical Results and Chain-of-Custody Forms



## **Attachment**

### **Mold Spore Sample Analytical Results and Chain-of-Custody Forms**



# EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705

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<http://www.EMSL.com> / [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

EMSL Order: 192101006

Customer ID: SALU50

Customer PO:

Project ID:

**Attention:** Indika Jayatilake

SaLUT

1818 New York Avenue, NE

Suite 231

Washington, DC 20002

**Project:** PGPCS IAQ REPORTS 19-035 FRANCIS STEVENS ES

**Phone:** (301) 595-3783

**Fax:** (301) 595-3787

**Collected Date:** 02/03/2021

**Received Date:** 02/03/2021 04:50 PM

**Analyzed Date:** 02/09/2021

### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	192101006-0001			192101006-0002			192101006-0003		
Client Sample ID:	31917733			31917674			31917695		
Volume (L):	75			75			75		
Sample Location:	CLASSRM 31			OUTSIDE SAMPLE			MULTI PURPOSE RM		
Spore Types	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	1	40	33.3	1	40	100	1	40	100
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	33.3	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	40	33.3	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>3</b>	<b>120</b>	<b>100</b>	<b>1</b>	<b>40</b>	<b>100</b>	<b>1</b>	<b>40</b>	<b>100</b>
Hyphal Fragment	-	-	-	1*	10*	-	-	-	-
Insect Fragment	2	80	-	-	-	-	1	40	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Abubakar Barry, Microbiology Laboratory Manager  
or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 02/09/2021 11:48 AM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



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### Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	192101006-0004 31917681 75 MAIN OFFICE			192101006-0005 31916671 75 LIBRARY			192101006-0006 31917734 75 CLASS RM 53			
	Spore Types	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total
Alternaria (Ullocladium)	-	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-	-
Basidiospores	5	200	16.4	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-	-
Cladosporium	23	940	77	2	80	100	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	2	80	6.6	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>30</b>	<b>1220</b>	<b>100</b>	<b>2</b>	<b>80</b>	<b>100</b>	-	<b>None Detect</b>	-	-
Hyphal Fragment	1*	10*	-	1	40	-	-	-	-	-
Insect Fragment	1	40	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-	-
Background (1-5)	-	1	-	-	1	-	-	1	-	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Abubakar Barry, Microbiology Laboratory Manager  
or other Approved Signatory

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**Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

<b>Lab Sample Number:</b>	192101006-0007		
<b>Client Sample ID:</b>	31917728		
<b>Volume (L):</b>			
<b>Sample Location:</b>	FIELD BLANK		
<b>Spore Types</b>	<b>Raw Count</b>	<b>Count/M³</b>	<b>% of Total</b>
Alternaria (Ullocladium)	-	-	-
Ascospores	-	-	-
Aspergillus/Penicillium	-	-	-
Basidiospores	-	-	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	-	-
Curvularia	-	-	-
Epicoccum	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
<b>Total Fungi</b>	-	<b>No Trace</b>	-
Hyphal Fragment	-	-	-
Insect Fragment	-	-	-
Pollen	-	-	-
Analyt. Sensitivity 600x	-	0	-
Analyt. Sensitivity 300x	-	0*	-
Skin Fragments (1-4)	-	-	-
Fibrous Particulate (1-4)	-	-	-
Background (1-5)	-	-	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Abubakar Barry, Microbiology Laboratory Manager  
or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 02/09/2021 11:48 AM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



# EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705

Tel/Fax: (301) 937-5700 / (301) 937-5701

<http://www.EMSL.com> / [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

**EMSL Order:** 192101472  
**Customer ID:** SALU50  
**Customer PO:**  
**Project ID:**

**Attention:** Indika Jayatilake  
 SaLUT  
 1818 New York Avenue, NE  
 Suite 231  
 Washington, DC 20002

**Phone:** (301) 595-3783  
**Fax:** (301) 595-3787  
**Collected Date:** 02/17/2021  
**Received Date:** 02/19/2021 08:30 AM  
**Analyzed Date:** 02/23/2021

**Project:** PGPCS IAQ Reports 19-035 Francis T Evans Elementary School

**Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

Lab Sample Number:	192101472-0001			192101472-0002			192101472-0003		
Client Sample ID:	3162 6442			3162 6490			3162 4819		
Volume (L):	75			75			75		
Sample Location:	Main office			Classroom 31			Outside sample		
Spore Types	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total	Raw Count	Count/M³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	1	40	9.5
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	1	40	100	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	2	90	21.4
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	1*	10*	2.4
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	5	200	47.6
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	1	40	9.5
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	1	40	9.5
<b>Total Fungi</b>	<b>1</b>	<b>40</b>	<b>100</b>	-	<b>None Detect</b>	-	<b>11</b>	<b>420</b>	<b>100</b>
Hyphal Fragment	-	-	-	1*	10*	-	-	-	-
Insect Fragment	-	-	-	1*	10*	-	-	-	-
Pollen	1	40	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	2	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

**Abubakar Barry, Microbiology Laboratory Manager  
 or other Approved Signatory**

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 02/23/2021 06:51 PM

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



# EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705

Tel/Fax: (301) 937-5700 / (301) 937-5701

<http://www.EMSL.com> / [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

EMSL Order: 192101472

Customer ID: SALU50

Customer PO:

Project ID:

**Attention:** Indika Jayatilake

SaLUT

1818 New York Avenue, NE

Suite 231

Washington, DC 20002

**Project:** PGPCS IAQ Reports 19-035 Francis T Evans Elementary School

**Phone:** (301) 595-3783

**Fax:** (301) 595-3787

**Collected Date:** 02/17/2021

**Received Date:** 02/19/2021 08:30 AM

**Analyzed Date:** 02/23/2021

**Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

<b>Lab Sample Number:</b>	192101472-0004		
<b>Client Sample ID:</b>	3162 6402		
<b>Volume (L):</b>			
<b>Sample Location:</b>	Field Blank		
<b>Spore Types</b>	<b>Raw Count</b>	<b>Count/M³</b>	<b>% of Total</b>
Alternaria (Ullocladium)	-	-	-
Ascospores	-	-	-
Aspergillus/Penicillium	-	-	-
Basidiospores	-	-	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	-	-
Curvularia	-	-	-
Epicoccum	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Bispora	-	-	-
<b>Total Fungi</b>	<b>No Trace</b>		
Hyphal Fragment	-	-	-
Insect Fragment	-	-	-
Pollen	-	-	-
Analyt. Sensitivity 600x	-	0	-
Analyt. Sensitivity 300x	-	0*	-
Skin Fragments (1-4)	-	-	-
Fibrous Particulate (1-4)	-	-	-
Background (1-5)	-	-	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Abubakar Barry, Microbiology Laboratory Manager  
or other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 02/23/2021 06:51 PM

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# Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

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Beltsville, MD 20705  
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FAX: (301) 937-5701

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Street: <b>1818 New York Avenue, NE Suite 231</b>		City: <b>Washington</b>		State/Province: <b>DC</b>		Zip/Postal Code: <b>20002</b>		Country: <b>US</b>	
Report To (Name): <b>Indika Jayatilake</b>		Telephone #: <b>301-595-3783</b>		Fax #: <b>301-595-3787</b>		Purchase Order: _____			
Email Address: <b>ijayatilake@salutinc.com</b>		Project Name/Number: <b>PGPCS IAQ Reports 19-035 Francis Stevens ES</b>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		U.S. State Samples Taken: <b>MD</b> Project Zip Code: _____ Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential			
Sterile; Sodium Thiosulfate Preserved Bottle Used: <input type="checkbox"/>		Biocide Used in Source (specify): <input type="checkbox"/>		Public Water Supply Samples: <input checked="" type="checkbox"/> Note: All results may automatically be reported to DOH, if required by state.					
Turnaround Time (TAT) Options - Please Check									
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input checked="" type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week		
Microbiology Test Codes									
M001 Air-O-Cell		M174 MoldSnap		M012 <i>Pseudomonas aeruginosa</i> (P/A***)		M115 Sewage Screen - Water (P/A***)			
M030 Micro 5		M032 Allergenco-D		M024 <i>Pseudomonas aeruginosa</i> (MFT*)		M116 Sewage Screen - Water (MPN**)			
M041 Fungal Direct Examination				M015 Heterotrophic Plate Count		M117 Sewage Screen - Swab (P/A***)			
M169 Pollen ID & Enumeration				M017 Total Coliform & <i>E. coli</i> (Colilert P/A***)		M013 Sewage Screen - Swab (MFT*)			
M280 Dust Characterization Level-1				M018 Total Coliform & <i>E. coli</i> (MFT*)		M133 Methicillin-resistant <i>Staph. aureus</i> (MRSA)			
M281 Dust Characterization Level-2				M114 Total Coliform & <i>E. coli</i> Enumeration (Colilert MPN**)		M031 Rapid-growing non-TB <i>Mycobacteria</i> Detection & Enumeration			
M005 Viable Fungi- Air Samples (Genus ID & Count)				M019 Fecal Coliform (MFT*)		M014 Endotoxin Analysis			
M006 Viable Fungi- Air Samples (Includes <i>Penicillium</i> , <i>Aspergillus</i> , <i>Cladosporium</i> , <i>Stachybotrys</i> Species ID & Count)				M020 Fecal <i>Streptococcus</i> (MFT*)		M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)			
M007 Culturable fungi - Surface Samples (Genus ID & Count)				M029 <i>Enterococci</i> (MFT*)		Other See Analytical Price Guide			
M008 Culturable fungi - Surface Samples (Includes <i>Penicillium</i> , <i>Aspergillus</i> , <i>Cladosporium</i> , <i>Stachybotrys</i> Species ID & Count)				M129 <i>Enterococci</i> (Enterolert P/A***)		Legionella Analysis Please use EMSL Legionella COC			
M009 Bacteria Culture Gram Stain & Count				M180 Real Time qPCR-ERMI 36 Panel					
M010 Bacteria Count & ID - 3 Most Prominent				M025 Sewage Screen - Water (MFT*)					
M011 Bacteria Count & ID - 5 Most Prominent				*MFT= Membrane Filtration Technique **MPN= Most Probable Number ***P/A= Presence/Absence					
Name of Sampler: <b>Jay Nchang</b>				Signature of Sampler:					
Sample #	Sample Location/Description	Sample Type	Potable/NonPotable (Only for Waters)	Test Code	Volume/Area	Date/Time Collected	Temperature (°C) (Lab Use Only)		
Example A1	Kitchen Sink/Tap	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M017	100 mL	9/1/13 4:00 PM			
			<input type="checkbox"/> P <input type="checkbox"/> NP						
			<input type="checkbox"/> P <input type="checkbox"/> NP						
			<input type="checkbox"/> P <input type="checkbox"/> NP						
			<input type="checkbox"/> P <input type="checkbox"/> NP						
Client Sample # (s):			Total # of Samples: <b>7</b>		Samples Received Chilled? Yes / No (Lab Use Only)				
Relinquished (Client): <b>Jay Nchang</b>			Date: <b>1/3/2021</b>		Time: <b>16:30</b>				
Received (Lab): <b>Melvin Hooper DB</b>			Date:		Time:				
Comments/Special Instructions:									

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10768 Baltimore Avenue

Beltsville, MD 20705  
PHONE: (301) 937-5700  
FAX: (301) 937-5701

Additional pages of the chain of custody are only necessary if needed for additional sample information.

Sample #	Sample Location/Description	Sample Type	Potable/NonPotable (Only for Waters)	Test Code	Volume/Area	Date/Time Collected	Temperature (C) (Lab Use Only)
3191 7733	Classroom 31	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	MOD1	75L	14:47 2/3/21	
3191 7674	Outside Sample	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	MOD1	75L	14:55 2/3/21	
3191 7695	Multi Purpose RM	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	MOD1	75L	15:00 2/3/21	
3191 7681	Main Office	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	MOD1	75L	15:37 2/3/21	
3188 6671	Library	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	MOD1	75L	15:41 2/3/21	
3191 7734	Class Room 53	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	MOD1	75L	15:45 2/3/21	
3191 7728	Field blank	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	MOD1		15:46 2/3/21	
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				
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			<input type="checkbox"/> P <input type="checkbox"/> NP				
Comments/Special Instructions:							

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# Microbiology Chain of Custody

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Beltsville, MD 20705  
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Company Name: SaLUT			EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If 'Bill To' is different, note instructions in Comments <i>Third Party Billing requires written authorization from third party.</i>				
Street: 1818 New York Avenue, NE Suite 231			City: Washington		State/Province: DC	Zip/Postal Code: 20002	Country: US
Report To (Name): Indika Jayatilake			Telephone #: 301-595-3783				
Email Address: ijayatilake@salutinc.com			Fax #: 301-595-3787		Purchase Order:		
Project Name/Number: PGPCS IAQ Reports 19-035 Francis T Evans Elementary School			Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email				
U.S. State Samples Taken: MD		Project Zip Code:		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential			
Sterile, Sodium Thiosulfate Preserved Bottle Used: <input type="checkbox"/> Biocide Used in Source (specify): <input type="checkbox"/>							
Public Water Supply Samples: <input type="checkbox"/> Note: All results may automatically be reported to DOH if required by state.							
Turnaround Time (TAT) Options - Please Check							
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input checked="" type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
Microbiology Test Codes							
M001 Air-O-Cell	M174 MoldSnap	M012 Pseudomonas aeruginosa (P/A***) M024 Pseudomonas aeruginosa (MFT*) M015 Heterotrophic Plate Count M017 Total Coliform & E. coli (Collert P/A***) M018 Total Coliform & E. coli (MFT*) M114 Total Coliform & E. coli Enumeration (Collert MPN**)			M115 Sewage Screen - Water (P/A***) M116 Sewage Screen - Water (MPN**) M117 Sewage Screen - Swab (P/A***) M013 Sewage Screen - Swab (MFT*) M133 Methicillin-resistant Staph. aureus (MRSA) M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration M014 Endotoxin Analysis M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite) Other See Analytical Price Guide Legionella Analysis Please use EMSL Legionella COC		
M030 Micro 5	M032 Allergenco-D	M019 Fecal Coliform (MFT*) M020 Fecal Streptococcus (MFT*) M029 Enterococci (MFT*) M129 Enterococci (Enterolert P/A***) M180 Real Time qPCR-ERMI 36 Panel M025 Sewage Screen -Water (MFT*)					
M041 Fungal Direct Examination M169 Pollen ID & Enumeration M280 Dust Characterization Level-1 M281 Dust Characterization Level-2 M005 Viable Fungi- Air Samples (Genus ID & Count) M006 Viable Fungi- Air Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count) M007 Culturable fungi - Surface Samples (Genus ID & Count) M008 Culturable fungi - Surface Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count) M009 Bacteria Culture Gram Stain & Count M010 Bacteria Count & ID - 3 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent		*MFT= Membrane Filtration Technique **MPN= Most Probable Number ***P/A= Presence/Absence					
Name of Sampler: Rahul Ekanayake			Signature of Sampler:				
Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
Example A1	Kitchen Sink/Tap	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M017	100 mL	9/1/13 4:00 PM	
3162 6442	Main office	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	02/17/21 11:57 A.M.	
3162 6490	Classroom 31	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	02/17/21 12:05 P.M.	
3162 4819	Outside Sample	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	02/17/21 12:10 P.M.	
3162 6452	field blank	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	N/A	02/17/21 12:15 P.M.	
Client Sample # (s): 04		Total # of Samples: 04		Samples Received Chilled? Yes / No (Lab Use Only)			
Relinquished (Client): Rahul Ekanayake			Date: 02/17/21	Time: 6:50 PM			
Received (Lab):			Date:	Time:			
Comments/Special Instructions:							

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# Microbiology Chain of Custody

## EMSL Order Number (Lab Use Only):



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10768 Baltimore Avenue

Beltsville, MD 20705  
PHONE: (301) 937-5700  
FAX: (301) 937-5701

Additional pages of the chain of custody are only necessary if needed for additional sample information.

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				
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			<input type="checkbox"/> P <input type="checkbox"/> NP				
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**Comments/Special Instructions:**