

January 5, 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
J. Frank Dent Elementary School
2700 Corning Avenue
Temple Hills, MD 20748

Mr. Baylor:

On November 20, 2020, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at J. Frank Dent Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 2700 Corning Avenue, Temple Hills, MD 20748. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

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 J. Frank Dent Elementary School, visited on November 20, 2020.

Table 1-Observations

Location	Summary of Observations 11-20-2020
Cafeteria	2'x4' ceiling tiles and white 9" x 9" floor tile; No visual signs of microbial growth, and mild odor; No visible dust on floor/other furniture surfaces; No visible dust around Ventilator; Central AC.
Hallway next to Remedial Reading	2'x4' ceiling tiles and white 9" x 9" floor tile; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator and Central AC.
Hallway next to Girls Restroom	2'x4' ceiling tiles and white 9" x 9" floor tile; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Hallway next to Paper Store	2'x4' ceiling tiles and white 9" x 9" floor tile; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator & Central AC.
Hallway next Audio Visual	2'x4' ceiling tiles and white 9" x 9" floor tile; No visual signs of microbial growth, and no odor; No visible dust on floor/other furniture surfaces; No visible dust around ventilator and Central AC.
Outside Exterior EV Sample	Windy

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 lower than the ASHRAE recommended ranges in the representative spaces.

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 (CO₂)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO₂ upper limit is the prevailing outdoor CO₂ concentration plus 700 parts per million (ppm). On the day of the space evaluation, the outdoor (building exterior) CO₂ concentration was approximately 428 ppm therefore indoor concentrations should not exceed approximately 1,128 ppm (700 + 428). The maximum average interior CO₂ concentration detected was 562 ppm in the Cafeteria, 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 below.

**Table 2: J. Frank Dent Elementary School, Instrumental Screening Levels
November 20, 2020 (7:30 AM-9:30 AM)**

Sample Location	Temp °F	RH%	CO ppm	CO ₂ ppm
Standards	ASHRAE 68 to 75°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,128
Cafeteria	64.4	33.5	0	562
Hallway next to Remedial Reading	63.5	32.6	0	519
Hallway next to Girls Restroom	63.5	31.8	0	509
Hallway next to Paper Store	64.4	30.4	0	474
Hallway next Audio Visual	66.2	29.4	0	464
Outside Exterior EV Sample	55.4	35.5	0	428

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

µg/m³ - micrograms per cubic meter
RH% - % Relative Humidity
CO₂ - 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 summarizes airborne mold spore sampling results and locations. On November 20, 2020, total mold counts in representative samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

**Table 3: J. Frank Dent Elementary School, Measurements of Mold-in-Air Samples
November 20, 2020 (7:30 AM-9:30 AM)**

Spore Types	Cafeteria	Hallway next to Remedial Reading	Hallway next to Girls Restroom	Hallway next to Paper Store
<i>Alternaria (Ulocladium)</i>	-	-	40	-
<i>Ascospores</i>	-	-	40	80
<i>Aspergillus/Penicillium</i>	-	-	-	-
<i>Basidiospores</i>	900	700	740	780
<i>Bipolaris++</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Cladosporium</i>	40	100	40	100
<i>Curvularia</i>	-	-	-	-
<i>Epicoccum</i>	-	10*	-	-
<i>Fusarium</i>	-	-	-	-
<i>Ganoderma</i>	-	-	-	-
<i>Myxomycetes++</i>	-	40	80	10*
<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>	10*	40	40	40
<i>Insect Fragment</i>	-	40	-	40
<i>Pollen</i>	-	40	-	-
Total Fungi	940	850	940	970

* Spore Counts per cubic meter of air (Counts/m³).

++Includes other spores with similar morphology.

**Table 3: J. Frank Dent Elementary School
Measurements of Mold-in-Air Samples continued
November 20, 2020 (7:30 AM-9:30 AM)**

Spore Types	Hallway next Audio Visual	Outside Exterior EV Sample	Field Blank
<i>Alternaria (Ulocladium)</i>	-	-	-
<i>Ascospores</i>	40	-	-
<i>Aspergillus/Penicillium</i>	80	80	-
<i>Basidiospores</i>	570	940	-
<i>Bipolaris++</i>	-	-	-
<i>Chaetomium</i>	-	-	-
<i>Cladosporium</i>	40	200	-
<i>Curvularia</i>	-	-	-
<i>Epicoccum</i>	-	-	-
<i>Fusarium</i>	-	-	-
<i>Ganoderma</i>	-	-	-
<i>Myxomycetes++</i>	80	10*	-
<i>Pithomyces++</i>	-	-	-
<i>Rust</i>	30*	-	-
<i>Scopulariopsis/Microascus</i>	-	-	-
<i>Stachybotrys/Memnoniella</i>	-	-	-
<i>Unidentifiable Spores</i>	-	-	-
<i>Zygomycetes</i>	-	-	-
<i>Nigrospora</i>	-	-	-
<i>Hyphal Fragment</i>	10*	80	-
<i>Insect Fragment</i>	40	-	-
<i>Pollen</i>	-	-	-
Total Fungi	840	1,230	No Trace

*Spore Counts per cubic meter of air (Counts/m³).

++Includes other spores with similar morphology.

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO₂, and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines with the exception of the temperature. On November 20, 2020, total mold counts in representative area samples (spore count/m³ of air) in all the areas inspected were lower than the outdoor concentrations, indicating no amplified mold growth.

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

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

<http://www.EMSL.com> / beltsvillelab@emsl.com

EMSL Order: 192011575

Customer ID: SALU50

Customer PO:

Project ID:

Attention: Indika Jayatilake

SaLUT

1818 New York Avenue, NE

Suite 231

Washington, DC 20002

Project: FRANK DENT ES PGCPs IAQ

Phone: (301) 595-3783

Fax: (301) 595-3787

Collected Date: 11/20/2020

Received Date: 11/20/2020 08:30 AM

Analyzed Date: 11/27/2020

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:	192011575-0001			192011575-0002			192011575-0003				
	Raw Count	Count/M ³	% of Total	Raw Count	Count/M ³	% of Total	Raw Count	Count/M ³	% of Total		
01 75 CAFETERIA				02 75 H/W NEXT TO REMEDIAL READING RM				03 75 H/W NEXT TO GIRLS RR			
Spore Types											
Alternaria (Ulocladium)	-	-	-	-	-	-	1	40	4.3		
Ascospores	-	-	-	-	-	-	1	40	4.3		
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-		
Basidiospores	22	900	95.7	17	700	82.4	18	740	78.7		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium	-	-	-	-	-	-	-	-	-		
Cladosporium	1	40	4.3	3	100	11.8	1	40	4.3		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	1*	10*	1.2	-	-	-		
Fusarium	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	1	40	4.7	2	80	8.5		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	23	940	100	22	850	100	23	940	100		
Hyphal Fragment	1*	10*	-	1	40	-	1	40	-		
Insect Fragment	-	-	-	1	40	-	-	-	-		
Pollen	-	-	-	1	40	-	-	-	-		
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	-		

Report Comment: Cassette #1 expired (10/2020)

++ 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: 11/28/2020 04:21 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com



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Received Date: 11/20/2020 08:30 AM

Analyzed Date: 11/27/2020

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:	192011575-0004			192011575-0005			192011575-0006		
	04	05	06	75	75	75	75	75	75
Sample Location:	H/W NEXT TO PAPER STORE			H/W NEXT TO AUDIO VISUAL			OUTSIDE EXTERIOR EV SAMPLE		
Spore Types	Raw Count	Count/M ³	% of Total	Raw Count	Count/M ³	% of Total	Raw Count	Count/M ³	% of Total
Alternaria (Ullocladium)	-	-	-	-	-	-	-	-	-
Ascospores	2	80	8.2	1	40	4.8	-	-	-
Aspergillus/Penicillium	-	-	-	2	80	9.5	2	80	6.5
Basidiospores	19	780	80.4	14	570	67.9	23	940	76.4
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	3	100	10.3	1	40	4.8	4	200	16.3
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1*	10*	1	2	80	9.5	1*	10*	0.8
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	2*	30*	3.6	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	25	970	100	22	840	100	30	1230	100
Hyphal Fragment	1	40	-	1*	10*	-	2	80	-
Insect Fragment	1	40	-	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	-

Report Comment: Cassette #1 expired (10/2020)

++ 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

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Attention: Indika Jayatilake

SaLUT

1818 New York Avenue, NE

Suite 231

Washington, DC 20002

Project: FRANK DENT ES PGCPs IAQ

Phone: (301) 595-3783

Fax: (301) 595-3787

Collected Date: 11/20/2020

Received Date: 11/20/2020 08:30 AM

Analyzed Date: 11/27/2020

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

Lab Sample Number:	192011575-0007		
Client Sample ID:	07		
Volume (L):			
Sample Location:	FIELD BLANK		
Spore Types	Raw Count	Count/M³	% of Total
Alternaria (Ullocladium)	-	-	-
Ascospores	-	-	-
Aspergillus/Penicillium	-	-	-
Basidiospores	-	-	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	-	-
Curvularia	-	-	-
Epicoccum	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Total Fungi	-	No Trace	-
Hyphal Fragment	-	-	-
Insect Fragment	-	-	-
Pollen	-	-	-
Analyt. Sensitivity 600x	-	0	-
Analyt. Sensitivity 300x	-	0*	-
Skin Fragments (1-4)	-	-	-
Fibrous Particulate (1-4)	-	-	-
Background (1-5)	-	-	-

Report Comment: Cassette #1 expired (10/2020)

++ 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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EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

19201157

PHONE:

FAX:

Company Name: SaLUT Inc.		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 1818 New York Ave NE Suite 231		Third Party Billing requires written authorization from third party	
City: Washington	State/Province: DC	Zip/Postal Code: 20002	Country: USA
Report To (Name): Indika Jayatilake		Telephone #: 301-595-3783	
Email Address: ijayatilake@salutinc.com		Fax #:	Purchase Order:
Project Number/Location: J Frank Dent ES / PGCPs IAQ		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Location Address: 2700 Corning Ave, Temple Hills, MD 20748		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

Sterile, Sodium Thiosulfate Preserved Bottle Used: Biocide Used in Source (specify):

Public Water Supply Samples: Note: All results may automatically be reported to DPH if required by state.

Turnaround Time (TAT) Options * - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

Microbiology Test Codes			
M001 Air-O-Cell	M174 MoldSnap	M024 Pseudomonas aeruginosa (MFT*)	M115 Sewage Screen - Water (P/A***)
M030 Micro 5	M032 Allergenco-D	M015 Heterotrophic Plate Count	M116 Sewage Screen - Water (MPN**)
M041 Fungal Direct Examination		M017 Total Coliform & E. coli (Collert P/A***)	M117 Sewage Screen - Swab (P/A***)
M169 Pollen ID & Enumeration		M018 Total Coliform & E. coli (MFT*)	M013 Sewage Screen - Swab (MFT*)
M280 Dust Characterization Level-1		M114 Total Coliform & E. coli Enumeration (Collert MPN**)	M133 Methicillin-resistant Staph. aureus (MRSA)
M281 Dust Characterization Level-2		M019 Fecal Coliform (MFT*)	M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration
M005 Viable Fungi- Air Samples (Genus ID & Count)		M020 Fecal Streptococcus (MFT*)	M014 Endotoxin Analysis
M006 Viable Fungi- Air Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count)		M029 Enterococci (MFT*)	M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)
M007 Culturable fungi - Surface Samples (Genus ID & Count)		M129 Enterococci (Enterolert P/A***)	Other See Analytical Price Guide
M008 Culturable fungi - Surface Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count)		M180 Real Time qPCR-ERMI 36 Panel	Legionella Analysis Please use EMSL Legionella COC
M009 Bacteria Culture Gram Stain & Count		M025 Sewage Screen -Water (MFT*)	
M010 Bacteria Count & ID - 3 Most Prominent			
M011 Bacteria Count & ID - 5 Most Prominent			
M012 Pseudomonas aeruginosa (P/A***)			

*MFT= Membrane Filtration Technique
**MPN= Most Probable Number
***P/A= Presence/Absence

Name of Sampler: Jude Fonseka 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)
01	Cafeteria	Air		M001	75L	11/19/2020	
02	H/W next to Remedial Reading Room	Air		M001	75L	11/19/2020	
03	H/W next to Girls RR	Air		M001	75L	11/19/2020	
04	H/W next to Paper Store	Air		M001	75L	11/19/2020	
05	H/W next to Audio Visual	Air		M001	75L	11/19/2020	
06	Outside Exterior EV Sample	Air		M001	75L	11/19/2020	

Client Sample # (s): - Total # of Samples: 07 Samples Received Chilled? Yes / No

Relinquished (Client): Date: Time: Received (Lab): Date: Time:

Comments/Special Instructions:

RECEIVED
 EMSL ANALYTICAL, INC.
 BELTSVILLE, MD
 2020 NOV 20 A 6:12



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS - TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

PHONE:
FAX:

Additional Pages of the Chain of Custody are, only necessary if needed for additional sample information

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
07	Field Blank	Air		N/A	N/A	11/19/2020	

Comments/Special Instructions: