Soil and Land Use Technology, Inc.
1818 New York Ave. NE, Ste 231, Washington, DC 20002
Telephone: (301) 595-3783
www.salutinc.com

March 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
Deerfield Run Elementary School
13000 Laurel Bowie Road #2136
Laurel, MD 20708

Mr. Baylor:

On January 26, 2021, and February 28, 2021 a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Deerfield Run Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 13000 Laurel Bowie Road #2136, Laurel, MD 20708. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

Corrective Measures Implemented by PGPCS

On February 28, 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 Music Room 2:

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 Deerfield Run Elementary School, visited on January 26, 202, and February 28, 2021, respectivley.

Table 1.1-Observations

Location	Summary of Observations 01-26-2021
Cafeteria	2'x4' 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.
Music Room 2	2'x4' ceiling tiles and 12"x 12" tile floor; No visual signs of microbial growth; Mild odor; No visible dust on floor/other furniture surfaces; Visible dust around ventilator; Central AC.
Red-3 Classroom	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 Hallway	2'x4' ceiling tiles and 12"x12" 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	Sunny

Table 1.2-Observations

Location	Summary of Observations 02-28-2021
Music Room 2	2'x4' ceiling tiles and 12"x 12" tile floor; No visible dust around ventilator;
Outside Exterior EV Sample	It was cold and windy

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 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 (CO_2)

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO_2 upper limit is the prevailing outdoor CO_2 concentration plus 700 parts per million (ppm). On January 26, 2021, the outdoor (building exterior) CO_2 concentration was approximately 428 ppm therefore indoor concentrations should not exceed approximately 1,128 ppm (700 + 428). The maximum average interior CO_2 concentration detected was 520 ppm in the Cafeteria, a range within the ASHRAE recommendations, per Table 2.1 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: Deerfield Run Elementary School-Instrumental Screening Levels
January 26, 2021 (9:30 AM-11:30 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	69.2	29.8	0	520
Music Room 2	68.0	26.9	0	495
Red-3 Classroom	68.9	26.4	0	477
Main Hallway	68.9	26.2	0	475
Outside Exterior EV Sample	40.1	65.6	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
CO_2 – Carbon Dioxide
* - Winter Comfort Range

Table 2.2: Deerfield Run Elementary School-Instrumental Screening Levels
February 28, 2021 (9:30 AM-11:30 AM)

Sample Location	Temp ^{0}F	RH%	CO ppm	CO_2 ppm
Standards	**ASHRAE 68 to 75°F***	**ASHRAE <65%**	**NAAQS 9**	**ASHRAE 1,128**
Music Room 2	66.2	55.4	0	540
Outside Exterior EV Sample	55.0	48.2	0	506

PM – Particulate Matter size
°F – Degrees Fahrenheit
CO – Carbon Monoxide
ppm – parts per million
µg/m^3 – micrograms per cubic meter
RH% - % Relative Humidity
CO_2 – 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 January 26, 2021, total mold counts in representative samples (spore count/m^3 of air) in all the areas inspected were lower than the outdoor concentrations with the exception of Music Room 2. Laboratory analysis follows this report (see attachment).

Tables 3.2: Summarizes airborne mold spore sampling results and locations. On February 28, 2021, 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 3.1: Deerfield Run Elementary School
Measurements of Mold-in-Air Samples
January 26, 2021 (9:30 AM-11:30 AM)

Spore Types	Cafeteria	Music Room 2	Red-3 Classroom	Main Hallway
Alternaria (Ulocladium)	-	-	-	-
Ascospores	-	10*	-	-
Aspergillus/Penicillium	40	5,930	100	80
Basidiospores	40	40	40	-
Bipolaris++	-	-	-	-
Chaetomium	-	-	-	-
Cladosporium	-	-	10*	10*
Curvularia	-	-	-	-
Epicoccum	-	-	-	-
Fusarium	-	-	-	-
Ganoderma	-	-	-	-
Myxomycetes++	-	-	40	-
Pithomyces++	-	-	10*	-
Rust	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-
Unidentifiable Spores	-	-	-	-
Zygomycetes	-	-	-	-
Nigrospora	-	-	-	-
Hyphal Fragment	-	-	-	-
Insect Fragment	-	-	-	-
Pollen	-	-	-	-
Total Fungi	**80**	**5,980**	**200**	**90**

* Spore Counts per cubic meter of air (Counts/m^3).
++Includes other spores with similar morphology.

Table 3.1: Deerfield Run Elementary School
Measurements of Mold-in-Air Samples continued
January 26, 2021 (9:30 AM-11:30 AM)

Spore Types	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-	-
Ascospores	-	-
Aspergillus/Penicillium	40	-
Basidiospores	300	-
Bipolaris++	-	-
Chaetomium	-	-
Cladosporium	-	-
Curvularia	-	-
Epicoccum	-	-
Fusarium	-	-
Ganoderma	-	-
Myxomycetes++	-	-
Pithomyces++	-	-
Rust	-	-
Scopulariopsis/Microascus	-	-
Stachybotrys/Memnoniella	-	-
Unidentifiable Spores	-	-
Zygomycetes	-	-
Nigrospora	-	-
Hyphal Fragment	-	-
Insect Fragment	-	-
Pollen	-	-
Total Fungi	**340**	**No Trace**

*Spore Counts per cubic meter of air (Counts/m^3).
++Includes other spores with similar morphology.

Table 3.2: Deerfield Run Elementary School
Measurements of Mold-in-Air Samples
February 28, 2021 (9:30 AM-11:30 AM)

Spore Types	Music Room 2	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-		-
Ascospores	-	980	-
Aspergillus/Penicillium	-	40	-
Basidiospores	200	9170	-
Bipolaris++	-		-
Chaetomium	-		-
Cladosporium	-	40	-
Curvularia	-		-
Epicoccum	-		-
Fusarium	-		-
Ganoderma	-		-
Myxomycetes++	-		-
Pithomyces++	-		-
Rust	-		-
Scopulariopsis/Microascus	-		-
Stachybotrys/Memnoniella	-		-
Unidentifiable Spores	-		-
Zygomycetes	-		-
Nigrospora	-		-
Hyphal Fragment	-		-
Insect Fragment	-		-
Pollen	-		-
Total Fungi	**200**	**10240**	**No Trace**

* Spore Counts per cubic meter of air (Counts/m^3).
++Includes other spores with similar morphology.

Findings and Conclusions

The comfort parameters (i.e., temperature, RH, CO_2, and CO levels) in the representative areas conform to ASHRAE and/or NAAQS guidelines. On January 26, 2021 total mold counts in representative area samples (spore count/m^3 of air) in all the areas inspected were lower than the outdoor concentrations with the exception of Music Room 2, indicating amplified mold growth.

On February 28, 2021, total mold counts in air samples (spore count/m3 of air) in the cafeteria 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.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-0262

http://www.EMSL.com / cinnmicrolab@emsl.com

EMSL Order: 372101212
Customer ID: SALU50
Customer PO:
Project ID:

Attention: Indika Jayatilake
SaLUT
1818 New York Avenue, NE
Suite 231
Washington, DC 20002
Project: 19-035 PGPCS IAQ Services Deerfield Run ES

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected Date: 01/26/2021
Received Date: 01/27/2021 10:20 AM
Analyzed Date: 01/28/2021

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

Lab Sample Number:	372101212-0001			372101212-0002			372101212-0003		
Client Sample ID:	31626130			31626124			61326119		
Volume (L):	75			75			75		
Sample Location:	Cafeterium			Music Room 2			Red-3 Classroom		
Spore Types	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	1*	10*	0.2	-	-	-
Aspergillus/Penicillium	1	40	50	145	5930	99.2	3	100	50
Basidiospores	1	40	50	1	40	0.7	1	40	20
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	1*	10*	5
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	1	40	20
Pithomyces++	-	-	-	-	-	-	1*	10*	5
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**2**	**80**	**100**	**147**	**5980**	**100**	**7**	**200**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	3	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	2	-	-	2	-	-	2	-
Background (1-5)	-	2	-	-	2	-	-	2	-

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

Vincent Iuzzolino

Vincent Iuzzolino, M.S., Laboratory Manager
or other Approved Signatory

Initial report from: 01/28/2021 02:31 PM

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

EMSL Analytical, Inc.

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Customer ID: SALU50
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Phone: (301) 595-3783
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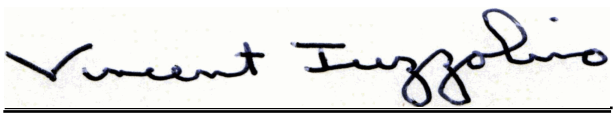
Collected Date: 01/26/2021
Received Date: 01/27/2021 10:20 AM
Analyzed Date: 01/28/2021

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

Lab Sample Number:	372101212-0004			372101212-0005			372101212-0006		
Client Sample ID:	31625340			31625359			31624647		
Volume (L):	75			75					
Sample Location:	Main Hallway			Outside Sample			Field Blank		
Spore Types	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	2	80	88.9	1	40	11.8	-	-	-
Basidiospores	-	-	-	8	300	88.2	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1*	10*	11.1	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	**3**	**90**	**100**	**9**	**340**	**100**	**-**	**No Trace**	**-**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	0	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	0*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	2	-	-	1	-	-	-	-
Background (1-5)	-	1	-	-	2	-	-	-	-

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



Vincent Iuzzolino, M.S., Laboratory Manager
or other Approved Signatory

Initial report from: 01/28/2021 02:31 PM

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EMSL Analytical, Inc.

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http://www.EMSL.com / cinnmicrolab@emsl.com

EMSL Order: 372103030
Customer ID: SALU50
Customer PO:
Project ID:

Attention: Indika Jayatilake
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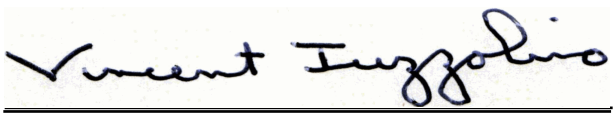
Washington, DC 20002
Project: Deerfield Run ES / PGCPS IAQ

Phone: (301) 595-3783
Fax: (301) 595-3787
Collected Date: 02/28/2021
Received Date: 03/03/2021 10:50 AM
Analyzed Date: 03/03/2021

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

Lab Sample Number:	372103030-0001			372103030-0002			372103030-0003		
Client Sample ID:	1D			2D			3D		
Volume (L):	75			75					
Sample Location:	Music Room 2			Outside Exterior EV Sample			Field Blank		
Spore Types	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**	**Raw Count**	**Count/M³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	24	980	9.6	-	-	-
Aspergillus/Penicillium	-	-	-	1	40	0.4	-	-	-
Basidiospores	6	200	100	224	9170	89.6	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	1	40	0.4	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Pestalotia/Pestalotiopsis	-	-	-	1*	10*	0.1	-	-	-
Total Fungi	**6**	**200**	**100**	**251**	**10240**	**100**	**-**	**No Trace**	**-**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	0	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	0*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	-	-
Background (1-5)	-	1	-	-	1	-	-	-	-

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



Vincent Iuzzolino, M.S., Laboratory Manager
or other Approved Signatory

Initial report from: 03/04/2021 09:43 AM

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

OrderID: 372101212

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 372101212

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
10768 Baltimore Avenue
Beltsville, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company Name: SaLUT	**EMSL-Bill to:** ☑ Same ☐ Different If 'Bill To' is different, note instructions in Comments *Third Party Billing requires written authorization from third party.*
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: 19-035 PGPCS IAQ Services Deerfield Ron ES	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MD **Project Zip Code:**	**Connecticut Samples:** ☐ Commercial ☐ Residential

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

Public Water Supply Samples: ☐ **Note: All results may automatically be reported to DOH 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
M030 Micro 5
M032 Allergenco-D
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

M012 *Pseudomonas aeruginosa* (P/A***)
M024 *Pseudomonas aeruginosa* (MFT*)
M015 Heterotrophic Plate Count
M017 Total Coliform & *E. coli* (Colilert P/A***)
M018 Total Coliform & *E. coli* (MFT*)
M114 Total Coliform & *E. coli* Enumeration (Colilert MPN**)
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*)

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

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

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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	☒ P ☐ NP	M017	100 mL	9/1/13 4:00 PM	
3162 6130	Cafetorium	Air	☐ P ☐ NP	M001	75L	01/26/21 8.34 A.M	
3162 6124	Music Room 2	Air	☐ P ☐ NP	M001	75L	01/26/21 8.40 A.M	
3162 6119	Red-3 Classroom	Air	☐ P ☐ NP	M001	75L	01/26/21 8.48 A.M	
3162 5340	Main hallway	Air	☐ P ☐ NP	M001	75L	01/26/21 8.59 A.M	
3162 5359	outside Sample	Air	☐ P ☐ NP	M001	75L	01/26/21 9.07 A.M	

Client Sample # (s): - 06 **Total # of Samples:** 06 **Samples Received Chilled?** Yes / No (Lab Use Only)

Relinquished (Client): Rahul Ekanayake **Date:** 01/26/21 **Time:** 12:00

Received (Lab): L. Samantha Drop Box **Date:** 1/27/21 **Time:** 10:20

Comments/Special Instructions:

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Page 1 of 1

OrderID: 372101212

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number *(Lab Use Only)*: 372101202

EMSL Analytical, Inc.
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)
31624847	field blank	Air	☐ P ☐ NP	M001	N/A	01/26/21 9:15 AM	
			☐ P ☐ NP				
			☐ P ☐ NP				
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2021 JAN 27 AM 10:33
CINNAMINSON, N.J.
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Comments/Special Instructions:

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OrderID: 372103030

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number *(Lab Use Only)*: 372103030

PHONE:
FAX:

Company Name: SaLUT Inc.	**EMSL-Bill to:** ☒ Same ☐ 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: Deerfield Run ES/ PGCPS IAQ	**Please Provide Results:** ☐ Fax ☒ Email
Location Address:	**Connecticut Samples:** ☐ Commercial ☐ 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 DOH 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
- **M030** Micro 5
- **M032** Allergenco-D
- **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
- **M012** Pseudomonas aeruginosa (P/A***)
- **M024** Pseudomonas aeruginosa (MFT*)
- **M015** Heterotrophic Plate Count
- **M017** Total Coliform & E. coli (Colilert P/A***)
- **M018** Total Coliform & E. coli (MFT*)
- **M114** Total Coliform & E. coli Enumeration (Colilert MPN**)
- **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*)
- **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

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

Name of Sampler: Jude Fonseka **Signature of Sampler:** [signature]

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (only for waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
1 D	Music Room 2	Air		M001	75L	2/28/2021	
2 D	Outside Exterior EV Sample	Air		M001	75L	2/28/2021	
3 D	Field Blank	Air		N/A	N/A	2/28/2021	

Client Sample # (s): - **Total # of Samples:** 03 **Samples Received Chilled? Yes / No**

Relinquished (Client): [signature] **Date:** **Time:**

Received (Lab): [signature] Drop Box **Date:** **Time:**

Comments/Special Instructions: 3/3/21 10:50

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RECEIVED EMSL PINNAMINSON NJ MAR 3 AM 9:53

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