

1818 New York Ave. NE, Ste 231, Washington, DC 20002

March 8, 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 Surrattsville High School 6101 Garden Drive #2541 Clinton, MD 20735

Mr. Baylor:

On February 4, 2021 and February 17, 2021 a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Surrattsville High School, a property maintained by Prince George's County Public Schools (PGCPS) located at 6101 Garden Drive #2541, 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, PGPCS implemented the following corrective measures in all areas:

- 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 Surrattsville High School, visited on February 4, 2021 and February 17, 2021, respectively.

Location	Summary of Observations 2-4-2021				
Main Office	1'x1' ceiling tiles and 12"x 12" tile floor;				
	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 2' ceiling tiles and $9''x 9''$ tile floor;				
	Visual signs of microbial growth;				
	Mild odor;				
	No visible dust on floor/other furniture surfaces;				
	No visible dust around ventilator;				
	Central AC.				
Success St Hallway	2'x2' ceiling tiles and terrazzo 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.				
Classroom 112	2'x2' ceiling tiles and $9''x 9''$ 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.				
Classroom 134	$9'' \times 9''$ floor tile and $2' \times 2'$ ceiling tile;				
	No visual signs of microbial growth;				
	Mild odor;				
	No visible dust on floor/other furniture surfaces;				
	No visible dust around ventilator;				
	Central AC.				

#### Table 1.1-Observations

Classroom 146	1'×1' floor tile and 2'×2' ceiling tiles;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Hallway Inventors Pl	Terrazzo and 2'×2' ceiling tiles;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
2nd Floor Hallway with Elevator	1'×1' floor tile, terrazzo and 2'×2' ceiling tiles;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Gym	Wooden floor and ceiling tiles;
	Visual signs of microbial growth;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central HVAC.
Outside Exterior EV Sample	Sunny, clear sky and windy

#### Table 1.2-Observations

Location	Summary of Observations 02-17-2021
Main Office	1'x1' ceiling tiles and 12"x 12" tile floor;
	No visual signs of microbial growth;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Multi-Purpose Room	2'x 2' ceiling tiles and $9''x 9''$ tile floor;
	No visual signs of microbial growth;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Success St Hallway	2'x2' ceiling tiles and terrazzo 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.
Classroom 112	2'x2' ceiling tiles and 9"x 9" tile floor;
	No visual signs of microbial growth;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.

Location	Summary of Observations 02-17-2021
Classroom 134	$9'' \times 9''$ floor tile and $2' \times 2'$ ceiling tile;
	No visual signs of microbial growth;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Classroom 146	$1' \times 1'$ floor tile and $2' \times 2'$ ceiling tiles;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Hallway Inventors Pl	Terrazzo and 2'×2' ceiling tiles;
	No visual signs of microbial growth;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
2nd Floor Hallway with Elevator	$1' \times 1'$ floor tile, terrazzo and $2' \times 2'$ ceiling tiles;
	No visual signs of microbial growth;
	Mild odor;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central AC.
Gym	Wooden floor and ceiling tiles;
	No visible dust on floor/other furniture surfaces;
	No visible dust around ventilator;
	Central HVAC.
Outside Exterior EV Sample	Sunny, clear sky and 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 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 low 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  $CO_2$  upper limit is the prevailing outdoor  $CO_2$  concentration plus 700 parts per million (ppm). On February 4, 2021, the outdoor (building exterior)  $CO_2$  concentration was approximately 421 ppm therefore indoor concentrations should not exceed approximately 1,121 ppm (700 + 421). The maximum average interior  $CO_2$  concentration detected was 554 ppm in the Multi-Purpose Room, 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: Surrattsville High School - Instrumental Screening LevelsFebruary 4, 2021 (9:30 AM-11:30 AM)

Sample Location	Temp	RH%	CO	CO <sub>2</sub>
	<sup>0</sup> F		ppm	ppm
Standards	ASHRAE	ASHRAE	NAAQS	ASHRAE
	68 to 75°F*	<65%	9	1,121
Main Office	68.9	24.7	0	491
Multi-Purpose Room	72.8	17.8	0	554
Success St Hallway	69.8	21.5	1	471
Classroom 112	70.7	21.2	0	525
Classroom 134	68.9	26.8	1	468
Classroom 146	72.5	33.0	1	469
Hallway Inventors Pl	68.0	33.8	1	462
2nd Floor Hallway with Elevator	68.9	24.2	1	477
Gym	73.4	23.0	1	461
Outside Exterior EV Sample	45.5	27.6	2	421

PM – Particulate Matter size °F – Degrees Fahrenheit CO – Carbon Monoxide ppm – parts per million  $\mu g/m^3$  – micrograms per cubic meter RH% - % Relative Humidity CO<sub>2</sub> – Carbon Dioxide \* - Winter Comfort Range



Table 2.2: Surrattsville High School - Instrumental Screening Levels
February 17, 2021 (9:30 AM-11:30 AM)

Sample Location	Temp	RH%	CO	CO <sub>2</sub>
	<sup>0</sup> F		ppm	ppm
Standards	ASHRAE	ASHRAE	NAAQS	ASHRAE
	68 to 75°F*	<65%	9	1,104
Main Office	68.0	26.8	0	665
Multi-Purpose Room	74.3	16.7	0	520
Success St Hallway	69.8	23.0	0	547
Classroom 112	73.4	9.9	0	532
Classroom 134	69.8	27.5	0	493
Classroom 146	72.5	30.7	0	480
Hallway Inventors Pl	68.0	41.6	0	459
2nd Floor Hallway with Elevator	71.6	23.0	0	463
Gym	75.2	23.4	0	479
Outside Exterior EV Sample	35.6	34.2	0	404

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

 $\mu$ g/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 4, 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 the Main Office, Classroom 112, Classroom 134, Hallway Investors Pl, 2nd Floor Hallway with Elevator, and the Gym. 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/m3 of air) in all the areas inspected were lower than the outdoor concentrations with the exception of the Success St Hallway, Classroom 146, and the 2<sup>nd</sup> Floor Hallway with Elevator. Laboratory analysis follows this report (see attachment).



#### Table 3.1: Surrattsville High School Measurements of Mold-in-Air Samples February 4, 2021 (9:30 AM-11:30 AM)

Spore Types	Main Office	Multi- Purpose Room	Success St Hallway	Classroom 112	Classroom 134
Alternaria (Ulocladium)	10*	-	-	-	-
Ascospores	40	-	-	-	40
Aspergillus/Penicillium	40	-	40	300	840
Basidiospores	40	-	-	-	90
Bipolaris++	-	-	-	-	-
Chaetomium	-	-	-	-	-
Cladosporium	-	-	-	-	300
Curvularia	-	-	-	-	40
Epicoccum	-	-	-	-	-
Fusarium	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	-	-	40	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	40
Unidentifiable Spores	10*	-	-	-	-
Zygomycetes	-	-	-	-	-
Nigrospora	-	-	-	-	-
Hyphal Fragment	40	40	-	-	-
Insect Fragment	40	40	-	-	-
Pollen	-	-	-	-	-
Total Fungi	220	80	80	300	1,350

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



#### Table 3.1: Surrattsville High School Measurements of Mold-in-Air Samples continued February 4, 2021 (9:30 AM-11:30 AM)

Spore Types	Classroom 146	n Hallway 2 <sup>nd</sup> Floor Inventors Pl Elevator		Gym	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-	-	-	-	-	-
Ascospores	-	40	40	-	-	-
Aspergillus/Penicillium	-	90	200	90	40	-
Basidiospores	-	90	40	-	40	-
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	40	220	280	90	80	No Trace

\*Spore Counts per cubic meter of air (Counts $/m^3$ ).



#### Table 3.2: Surrattsville High School Measurements of Mold-in-Air Samples February 17, 2021 (9:30 AM-11:30 AM)

Spore Types	Main Office	Multi- Purpose Room	Success St Hallway	Classroom 112	Classroom 134
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	40	200	-	-
Basidiospores	-	-	90	-	-
Bipolaris++	-	-	-	-	-
Chaetomium	-	-	-	-	-
Cladosporium	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	-	-	40	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Nigrospora	-		-	-	-
Hyphal Fragment	-	-	100	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	-	-	-
Total Fungi	No Trace	40	430	No Trace	No Trace

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



#### Table 3.2: Surrattsville High School Measurements of Mold-in-Air Samples continued February 17, 2021 (9:30 AM-11:30 AM)

Spore Types	Classroom 146	Hallway Inventors Pl	2nd Floor Hallway with Elevator	Gym	Outside Exterior EV Sample	Field Blank
Alternaria (Ulocladium)	-	-	-	-	-	-
Ascospores	40	-	-	-	-	-
Aspergillus/Penicillium	300	-	300	-	-	-
Basidiospores	-	10*	-	-	40	-
Bipolaris++	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-
Cladosporium	90	-	-	-	10*	-
Curvularia	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-
Rust	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-
Nigrospora	-	-	-	-	-	-
Hyphal Fragment	-	-	-	-	10*	-
Insect Fragment	-	-	-	-	-	-
Pollen	-	-	-	-	-	-
Total Fungi	430	10*	300	No Trace	60	No Trace

\*Spore Counts per cubic meter of air (Counts $/m^3$ ).



#### **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 4, 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 the Main Office, Classroom 112, Classroom 134, Hallway Investors Pl, 2nd Floor Hallway with Elevator, and the Gym, indicating amplified mold growth.

On February 17, 2021, total mold counts in air samples (spore count/m3 of air) in all the areas inspected were significantly lower than the outdoor concentrations, with the exception of the Success St Hallway, Classroom 146, and the 2<sup>nd</sup> Floor Hallway with Elevator. However, those mold in air sample results did not indicate 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.

Mille 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



10768 Baltimore Avenue Beltsville, MD 20705 Tel/Fax: (301) 937-5700 / (301) 937-5701 http://www.EMSL.com / beltsvillelab@emsl.com EMSL Order: 192101470 Customer ID: SALU50 Customer PO: Project ID:

Attention: Indika Jayatilake

SaLUT 1818 New York Avenue, NE Suite 231

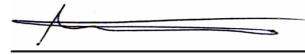
Washington, DC 20002

Project: PGPCS IAQ Reports 19-035 Surrattsville High 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-	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):	1	192101470-0001 3162 6348 75		192101470-0002 3162 6239 75			192101470-0003 3162 6253 75		
Sample Location:		Main office			Classroom 112		Multi Purpose Room		
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)	-	-	-	-	-	· -	-	-	i -
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	1	40	100
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	-	None Detect	-	-	No Trace	-	1	40	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	-	-	-	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.



Abubakar Barry, Microbiology Laboratory Manager or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples as received, above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulate can overloading of background particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, provided by the client. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "\*" Denotes particles found at 300X. "." Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed.

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

Initial report from: 02/23/2021 06:53 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com MIC\_M001\_0002\_0002 Printed: 02/23/2021 06:53 PM



10768 Baltimore Avenue Beltsville, MD 20705 Tel/Fax: (301) 937-5700 / (301) 937-5701 http://www.EMSL.com / beltsvillelab@emsl.com EMSL Order: 192101470 Customer ID: SALU50 Customer PO: Project ID:

Attention: Indika Jayatilake

SaLUT 1818 New York Avenue, NE Suite 231

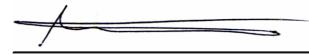
Washington, DC 20002

Project: PGPCS IAQ Reports 19-035 Surrattsville High 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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		92101470-0004 3162 6194 75 ccess St Hallwa	v		92101470-0005 3162 6248 75 Classroom 134		192101470-0006 3162 6247 75 Classroom 146		
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 Tota			
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	1	40	9.3
Aspergillus/Penicillium	4	200	60.6	-	-	-	6	300	69.8
Basidiospores	2	90	27.3	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	2	90	20.9
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	40	12.1	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	7	330	100	-	None Detect		9	430	100
Hyphal Fragment	3	100	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	1*	10*	-	-	-	-
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	-	-	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: 02/23/2021 06:53 PM

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

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10768 Baltimore Avenue Beltsville, MD 20705 Tel/Fax: (301) 937-5700 / (301) 937-5701 http://www.EMSL.com / beltsvillelab@emsl.com EMSL Order: 192101470 Customer ID: SALU50 Customer PO: Project ID:

Attention: Indika Jayatilake

SaLUT 1818 New York Avenue, NE Suite 231

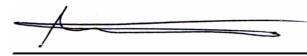
Washington, DC 20002

Project: PGPCS IAQ Reports 19-035 Surrattsville High 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

Lab Sample Number: Client Sample ID: Volume (L):	1	92101470-0007 3162 6181 75		1	92101470-0008 3162 6234 75		1!	92101470-0009 3162 6296 75	
Sample Location:		Hallway Inventors PL Gym Hallway 2nd floor with Elev							
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	-	-	-	-	-	-	7	300	100
Basidiospores	1*	10*	100	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Torula-like	-	-	-	-	-	-	-	-	-
Total Fungi	1	10	100	-	None Detect	-	7	300	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
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	_	_	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: 02/23/2021 06:53 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com MIC\_M001\_0002\_0002 Printed: 02/23/2021 06:53 PM



10768 Baltimore Avenue Beltsville, MD 20705 Tel/Fax: (301) 937-5700 / (301) 937-5701 http://www.EMSL.com / beltsvillelab@emsl.com EMSL Order: 192101470 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 Surrattsville High 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(™) Analy	sis of Fungal S	oores & Partic	ulates by Optica	I Microscopy (N	lethods MICRO	D-SOP-201, AST	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L): Sample Location:		92101470-0010 3162 6251 75		1	92101470-0011 3162 6246				
· · · · · · · · · · · · · · · · · · ·		outside sample	0/ . C T . / . I		Field Blank	04 - <b>5 T</b> - 4 - 1			
Spore Types	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	-	-	-
Alternaria (Ulocladium) Ascospores	-	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	-	-	-			
Basidiospores	-	- 40	- 50	-	-	-			
Basidiospores Bipolaris++				-	-	-			
Chaetomium	-	-	-	-	-	-			
Cladosporium	- 1*	- 10*	- 12.5	-	-	-			
Ciadosponum Curvularia	I	10		-	-	-			
Epicoccum	-	-	-	-	-	-			
Epicoccum Fusarium	-	-	-	-	-	-			
	-	-	-	-	-	-			
Ganoderma	-	-	-	-	-	-			
Myxomycetes++	-	-	-	-	-	-			
Pithomyces++	-	-	-	-	-	-			
Rust	-	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-	-			
Zygomycetes	-	-	-	-	-	-			
Torula-like	2*	30*	37.5	-	-	-			
Total Fungi	4	80	100	-	No Trace	-			
Hyphal Fragment	1*	10*	-	-	-	-			
Insect Fragment	-	-	-	-	-	-			
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	0	-			
Analyt. Sensitivity 300x	-	13*	-	-	0*	-			
Skin Fragments (1-4)	-	1	-	-	-	-			
Fibrous Particulate (1-4)	-	1	-	-	-	-			
Background (1-5)	-	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 06:53 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com MIC\_M001\_0002\_0002 Printed: 02/23/2021 06:53 PM



200 Route 130 North Cinnaminson, NJ 08077 Tel/Fax: (800) 220-3675 / (856) 786-0262 http://www.EMSL.com / cinnmicrolab@emsl.com EMSL Order: 372101799 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 Surrattsville High School

Phone: (301) 595-3783 Fax: (301) 595-3787 Collected Date: 02/04/2021 Received Date: 02/08/2021 09:10 AM Analyzed Date: 02/08/2021

Test Report:Air-	O-Cell(™) Analy	sis of Fungal Sp	oores & Partic	ulates by Optica	I Microscopy (N	lethods MICR	O-SOP-201, AST	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L):	3	72101799-0001 31626270 75		3	72101799-0002 31626280 75		3	72101799-0003 31626277 75	
Sample Location:	C	Classroom 112			Main Office		Mul	ti-Purpose Roor	n
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)	-	-	-	1*	10*	5.6	-	-	-
Ascospores	-	-	-	1	40	22.2	-	-	-
Aspergillus/Penicillium	7	300	100	1	40	22.2	-	-	-
Basidiospores	-	-	-	1	40	22.2	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	1*	10*	5.6	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Oidiodendron	-	-	-	1	40	22.2	-	-	-
Tetraploa	-	-	-	-	-	-	-	-	-
Total Fungi	7	300	100	6	180	100	-	None Detect	-
Hyphal Fragment	-	-	-	1	40	-	1	40	-
Insect Fragment	-	-	-	1	40	-	1	40	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	3	-	-	2	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	1	-

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

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

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 02/09/2021 01:49 PM

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com MIC\_M001\_0002\_0002 Printed: 02/09/2021 01:49 PM



200 Route 130 North Cinnaminson, NJ 08077 Tel/Fax: (800) 220-3675 / (856) 786-0262 http://www.EMSL.com / cinnmicrolab@emsl.com EMSL Order: 372101799 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 Surrattsville High School

Phone: (301) 595-3783 Fax: (301) 595-3787 Collected Date: 02/04/2021 Received Date: 02/08/2021 09:10 AM Analyzed Date: 02/08/2021

Test Report:Air-	D-Cell(™) Analy	sis of Fungal Sp	ores & Partic	ulates by Optica	I Microscopy (N	lethods MICR	O-SOP-201, AST	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L):	3	72101799-0004 31626283 75		3	72101799-0005 31626282 75		3	72101799-0006 31626307 75	
Sample Location:	Suc	cess St Hallwa	y	j c	Classroom 134		C	Classroom 146	
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	-	-	-	1	40	2.9	-	-	-
Aspergillus/Penicillium	1	40	50	19	840	60.4	-	-	-
Basidiospores	-	-	-	2	90	6.5	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	7	300	21.6	1	40	100
Curvularia	-	-	-	1	40	2.9	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	40	50	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	1	40	2.9	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Oidiodendron	-	-	-	-	-	-	-	-	-
Tetraploa	-	-	-	1	40	2.9	-	-	-
Total Fungi	2	80	100	32	1390	100	1	40	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	3	-	-	1	-	-	2	-
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.

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

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 02/09/2021 01:49 PM

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Attention: Indika Jayatilake

SaLUT 1818 New York Avenue, NE Suite 231

Washington, DC 20002

**Project:** PGPCS IAQ Reports 19-035 Surrattsville High School

Phone: (301) 595-3783 Fax: (301) 595-3787 Collected Date: 02/04/2021 Received Date: 02/08/2021 09:10 AM Analyzed Date: 02/08/2021

Test Report:Air-	O-Cell(™) Analy	sis of Fungal S	ores & Partic	ulates by Optica	l Microscopy (N	lethods MICR	O-SOP-201, AST	M D7391)	
Lab Sample Number: Client Sample ID: Volume (L):	3.	72101799-0007 31626339 75		3	72101799-0008 31626286 75		3	72101799-0009 31626289 75	
Sample Location:	Hall	way Inventors I	י	2nd Floor	Hallway With E	levator		Gym	
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	1	40	18.2	1	40	14.3	-	-	-
Aspergillus/Penicillium	2	90	40.9	5	200	71.4	2	90	100
Basidiospores	2	90	40.9	1	40	14.3	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Oidiodendron	-	-	-	-	-	-	-	-	-
Tetraploa	-	-	-	-	-	-	-	-	-
Total Fungi	5	220	100	7	280	100	2	90	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	2	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	1	-

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

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

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 02/09/2021 01:49 PM

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Attention: Indika Jayatilake

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Washington, DC 20002

Project: PGPCS IAQ Reports 19-035 Surrattsville High School

Phone: (301) 595-3783 Fax: (301) 595-3787 Collected Date: 02/04/2021 Received Date: 02/08/2021 09:10 AM Analyzed Date: 02/08/2021

Lab Sample Number: Client Sample ID: Volume (L):	3.	72101799-0010 31626295 75		3	72101799-0011 31626329				
Sample Location:	0	utside Sample			Field Blank	i			
Spore Types	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	-	-	-
Alternaria (Ulocladium)	-	-	-	-	-	-		-	-
Ascospores	-	-	-	-	-	-			
Aspergillus/Penicillium	1	40	50	-	-	-			
Basidiospores	1	40	50	-	-	-			
Bipolaris++	-	-	-	-	-	-			
Chaetomium	-	-	-	-	-	-			
Cladosporium	-	-	-	-	-	-			
Curvularia	-	-	-	-	-	-			
Epicoccum	-	-	-	-	-	-			
Fusarium	-	-	-	-	-	-			
Ganoderma	-	-	-	-	-	-			
Myxomycetes++	-	-	-	-	-	-			
Pithomyces++	-	-	-	-	-	-			
Rust	-	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-	-			
Zygomycetes	-	-	-	-	-	-			
Oidiodendron	-	-	-	-	-	-			
Tetraploa	-	-	-	-	-	-			
Total Fungi	2	80	100	-	No Trace	-			
Hyphal Fragment	-	-	-	-	-	-			
Insect Fragment	-	-	-	-	-	-			
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	0	-	-	-	-
Analyt. Sensitivity 300x	-	13*	-	-	0*	-			
Skin Fragments (1-4)	-	1	-	-	-	-			
Fibrous Particulate (1-4)	-	-	-	-	-	-			
Background (1-5)	-	1	_	_	_	-			

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

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

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report relates the samples are seceived. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. High levels of background particulates on obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "\*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 02/09/2021 01:49 PM

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



Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

EMSL Analytical, Inc. 10768 Baltimore Avenue

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

		FICIO	DI IC	7			B	eltsville, MD 2	20705	
EMSL ANALYTICA		$\left[192\right]$	0141	$O_{2}$				PHONE: (301	) 937-5700	
LABORATORY PRODUCTS						•			) 937 <u>-5701</u>	
Company Name: S	SaLUT		t. P		EM: Jf 'B	SL-Bill to M To' is diffe	erent, note instr	Different uctions in Commer	nts	
Street: 1818 New	York Avenue, NE	E Suite 231			Third Party I	Billing requir	es written auth	orization from third	party.	
City: Washington	Stat	e/Province: DC		Zip/Posta	I Code: 2	20002	]	Country: US		
Report To (Name):	Indika Jayatilaka	è	·	Telephon	e #: 301-	595-378	3	· •		
Email Address: ija	yatilake@salutin		· · · · · ·	Fax #: 30	1-595-3	787		Purchase Or	der:	
Project Name/Num	ber: PGPCS IAQ Report	Surrat \$ 19-035 High	terice School	Please Pr	rovide Re	esults: [	_ Fax 🛴	/Email		
U.S. State Samples			Zip Code:					Commercial	Residential	
	erile, Sodium Thi									_
Public V	Vater Supply Sam						to DOH if r	equired by st	ate	
			d Time (TAT)							
📋 3 Hour	6 Hour	24 Hour	48 Hour	<b>E</b> 72		9	6 Hour	1 Week	🔲 2 Week	_
	<u> </u>		Microbiolog	•						-
M001 Air-O-Cell	M174 MoldS		M012 Pseudor M024 Pseudor					ige Screen - Wa ige Screen - Wa		
M030 Micro 5	M032 Allerge	enco-D	M015 Heterotro	ophic Plate C	ount		M117 Sewa	ige Screen - Sw	ab (P/A***)	
M041 Fungal Direct E: M169 Pollen ID & Enu			M017 Total Co M018 Total Co			P/A***)		age Screen - Swi icillin-resistant S		
M169 Pollen ID & Enu M280 Dust Characteri			M114 Total Co			ation	(MRSA)	Cillin-resistant S	taph. aureus	
M281 Dust Characteri			(Colilert MPN**				M031 Rapi	d-growing non-T	B Mycobacteria	
M005 Viable Fungi- Ai			M019 Fecal Co M020 Fecal St					Enumeration		
M006 Viable Fungi- Ai Aspergillus, Cladospol			M029 Enteroco		(111 1 )				Dog, Cockroach,	
Count)			M129 Enteroco			-1	Dust Mite)	Application Drive	Cuida	
M007 Culturable fungi	- Surface Samples (	Genus ID &	M180 Real Tim M025 Sewage					Analytical Price Analysis Please		
Count) M008 Culturable fungi	- Surface Samples (	Includes					Legionella			
Penicillium, Aspergillu										-
Species ID & Count) M009 Bacteria Culture	Gram Stain & Coun	t l	*MFT= Membr			e				
M010 Bacteria Count	& ID - 3 Most Promin	ent	**MPN= Most i ***P/A= Preser							
M011 Bacteria Count	& ID - 5 Most Promin	ent			<u>-</u>	·				-
Name of Sampler:	Kahul	Ekana	yake_	Signature	e of Sam	pler: g	Alter -	·		
Sample #	Sample Locatio	n/Description	Sample	Potat NonPo		Test	· Volume/	Date/Time	Température	1
oumpie #	Campić Ecourio	In Description	Туре	(Only for V		Code	Area	Collected	('C) (Lab Use Only)	
Example A1	Kitchen Sink/Tap	аны — Тарата Алана — Тарата Алана — Тарата	Water	🛛 P. 🗋	NP	M017	.100 mL	9/1/13 4:00 PM		7
3162 6348	Main of	A100	Air			Mool	75L	2117/21		-
		110	<u>Air</u>			1		1.00 P.M 2117101		-
	<u>Classroom</u> Multi Pur	112			NP	Mooi Mooi	754	1-16 P.M 2117121		
3162 6253		pose Room		·	NP		15 L	2/17/21	the states	<u> </u>
162 BI94	Success St,	,	Air		NP	Mool	75L	1.27 P.M		_
62 6248	Classroom	134	Air	<u> </u>	NP	MODI	751	2/17/21 1.33 P.M	19.55. <u></u>	
Client Sample # (s	):	[]	Total # of S	Samples:	(1		s Received		/es/No	Acres 10
Relinquished (Clie	nt): Rahvl	EKana	Yake	Date: 2	<u>2/17/</u>	121	Time:	<u>6.3077</u>	· MAP	
Received (Lab):				Date:			Time:		AR	
Comments/Specia	I Instructions:						•		OE NUN	
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								σ	T CAR	
					<u> </u>	_		- <u>- (n</u> .	Sto	
			Page <u>1</u>	of						

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Subinission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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EMSL

EMSL ANALYTICAL, INC.

#### Microbiology Chain of Custody EMSL Order Number (Lab Use Only):

192101470

EMSL Analytical, Inc. 10768 Baltimore Avenue

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

		Туре	NonPotable (Only for Waters)	Code	Агеа	Date/Time Collected	( <b>:C)</b> (Lab Use Only)
3162 6247	Classroom 146	Air		Maoi	752	2/17/21 1.58 P.M	
3162 6181	Hallway Inventors PL	Aîr		Moor	75L	2117121 1.93P.M	1. 1. 2. 1. H. S. F. 2.
3162 6234	Gym	Air		11001	752	21(7)21 1.49P.M	
B162 6296	Hallway With Elentor	Air		Moor	75L	2/17/21 1.56P.M	
31626251	Octside Sample	Air		1001	75L	2/17121	
3162 6246	field Blank	Aîr		Mool	NA	2/17/21 2.02P.M	
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			<u> </u>	_			
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							en la parte de la composition de la compositione
							80 112 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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			P DNP				
Comments/Special							

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

Page \_\_\_\_\_ of \_

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OrderID: 3<u>721</u>01799



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10768 Baltimore Avenue

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			2.5	N 2 1 - A	0		Beltsville, MD		
EMSL ANALYTICA			<u>- 21 d</u>	10179	7		PHONE: (30		
LABORATORY+PRODUCTS					ISL-Bill t	o: 🔽 Same		<u>1) 937-5701</u>	
Company Name:	SaLUT						ructions in Comme		
Street: 1818 New		e, NE Suite 231		Third Party	Billing requ	ires written aut	horization from thin	d party.	
City: Washington		State/Province: C	)C	Zip/Postal Code:	20002		Country: US	3 ·	
Report To (Name):	Indika Jaya	tilake		Telephone #: 301	-595-37	83	<u> </u>		
Email Address: İja	ayatilake@sa	alutinc.com		Fax #: 301-595-3787 Purchase Order:					
Project Name/Nun	1ber: PGPCS IAQ	Reports 19-035 High	Sch <u>ool</u>	Please Provide R	esults:	Fax	Email	-	
U.S. State Sample	s Taken: MD	Projec	t Zip Code:					Residential	
				ed: 🗌 Biocide Use					
Public V	Water Supply	-		y automatically be		to DOH if	required by s	tate.	
			und Time (TAT)	Options - Please C		6 Hour	1 Week	2 Week	
3 Hour		24 Hour		Test Codes		- Hour			
M001 Air-O-Cell	M174 N	MoldSnap		nonas aeruginosa (P/A	(***)	M115 Sew	age Screen - Wa	ater (P/A***)	
M030 Micro 5		Allergenco-D	M024 Pseudor	nonas aeruginosa (MF		M116 Sew	age Screen - Wa	ater (MPN**)	
M041 Fungal Direct E				ophic Plate Count liform & <i>E. coli</i> (Coliler	t P/A***)		age Screen - Sw age Screen - Sw		
M169 Pollen ID & Enu				liform & <i>E. coli</i> (MFT*) liform & <i>E. coli</i> Enume	ration	M133 Meth (MRSA)	hicillin-resistant S	Staph. aureus	
M280 Dust Characteri M281 Dust Characteri		(	(Colilert MPN*	*)	auon	M031 Rap		B Mycobacteria 🚡	
M005 Viable Fungi- A	ir Samples (Ger		M019 Fecal Co M020 Fecal St	oliform (MFT*) reptococcus (MFT*)			& Enumeration otoxin Analysis		
M006 Viable Fungi- A Aspergillus, Cladospo	ir Samples (Incl <i>rium</i> , Stachvbot	udes Penicillium, rvs Species ID &	M029 Enteroco	occi (MFT*)		M044 Grou	ip Allergen (Cat	Dog_Cockroach,	
Count)	-			occi (Enterolert P/A***) ne qPCR-ERMI 36 Pan	ei	Dust Mite) Other Sea	 Analytical Price	Guide	
Count) M025				Sewage Screen – Water (MFT*) Legionella Analysis Plage use EMSP					
M008 Culturable fungi - Surface Samples (Includes						Legionella	···········	MICE	
Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count) •MFT=				ane Filtration Techniqu	I.P.		~	ISO	
	M009 Bacteria Culture Gram Stain & Count						D		
M010 Bacteria Count & ID - 3 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent				nce/Absence	-				
							<u>ب</u>		
		rominent ~		Signature of Sam	pl <u>er:</u>	Hard	ha	· · · · · · · · · · · · · · · · · · ·	
M011 Bacteria Count	& ID-5 Most Pl Rahv	rominent -		Signature of Sam Potable/ NonPotable	pler: Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)	
M011 Bacteria Count Name of Sampler: Sample #	& ID - 5 Most Pr Rahv Sample Lo	rominent I Ekanay cation/Description	a Ke Sample Type	Signature of Sam Potable/ NonPotable (Only for Waters)	Test Code	Area	Date/Time Collected	Temperature ('C)	
M011 Bacteria Count Name of Sampler: Sample # Example A1	& ID - 5 Most P Rahv Sample Lo Kitchen Sink	rominent IEKANAY cation/Description /Tap	a Ke Sample Type	Signature of Sam Potable/ NonPotable (Only for Waters)	Test Code M017	Area 100 mL	Date/Time Collected 9/1/13 4:00 PM	Temperature ('C)	
M011 Bacteria Count Name of Sampler: Sample # Example A1 S162 6270	& ID - 5 Most Pr Rahy Sample Lo Kitchen Sink	rominent I Ekanay cation/Description /Tap OM 112	a Ke Sample Type	Signature of Sam Potable/ NonPotable (Only for Waters)	Test Code	Area 100 mL 75 L	Date/Time Collected 9/1/13 4:00 PM 4:00 PM 9-15 PM 9-15 PM	Temperature ('C)	
M011 Bacteria Count Name of Sampler: Sample # Example A1 3162 6270 3162 6280	8 ID - 5 Most Pr Rahv Sample Lo Kitchen Sink Classo Main	rominent I E Kanay cation/Description /Tap om 112 office	a Ke Sample Type Water Air Air	Signature of Sam Potable/ NonPotable (Only for Waters)	Test Code M017 M001 M001	Area 100 mL	Date/Time Collected 9/1/13 4:00 PM 02104121 9-15 PM 02104121 9-17 PLM 02/04121	Temperature ('C)	
M011 Bacteria Count Name of Sampler: Sample # Example A1 3162 6270 3162 6280 3162 6277	8 ID - 5 Most Pr Rahv Sample Lo Kitchen Sink Classro Main Multi-Pc	rominent I EKARAY cation/Description /Tap om 112 office orpose Room	A Ke Sample Type Water Air Air Air	Signature of Sam Potable/ NonPotable (Only for Waters)	Test Code M017 M00i M00i M00i	Area 100 mL 75 L 75 L	Date/Time Collected 9/1/13 4:00 PM 02/04/21 9.15 PM 02/04/21 9.15 PM	Temperature ('C)	
M011 Bacteria Count Name of Sampler: Sample # Example A1 3162 6270 3162 6280	& ID - 5 Most Pr Rahy Sample Lo Kitchen Sink Classo Main Molti-Pe Success St	rominent I E Kanay cation/Description /Tap Om 112 om 112 office uppose Room Hallway	a Ke Sample Type Water Air Air Air Air	Signature of Sam Potable/ NonPotable (Only for Waters)	Test Code M017 M001 M001	Area 100 mL 75 L 75 L 75 L	Date/Time Collected 9/1/13 02104121 9-15 BM 02104121 9-17 BM 02104121 9-25 BM	Temperature ('C)	
M011 Bacteria Count Name of Sampler: Sample # Example A1 3162 6270 3162 6280 3162 6277 3162 6283	8 ID - 5 Most Pr Rahv Sample Lo Kitchen Sink Classo Main Multi-Pa Success St Classop	rominent I E Kanay cation/Description /Tap Om 112 om 112 office uppose Room Hallway	A Ke Sample Type Water Air Air Air	Signature of Sam Potable/ NonPotable (Only for Waters) P NP P NP P NP P NP P NP P NP P NP P NP P NP	Test Code M017 M001 M001 M001 M001 Sample	Area 100 mL 75 L 75 L 75 L 75 L 75 L 75 L 75 L 35 Receive	Date/Time Collected 9/1/13 4:00 PM 02/04/21 9.15 PM 02/04/21 9.25 RM 02/04/21 9.31 R-M 02/04/21 9.31 R-M 02/04/21 9.31 R-M 02/04/21 9.31 R-M	Temperature (C) (Lab Use Only)	
M011 Bacteria Count Name of Sampler: Sample # Example A1 3162 6270 3162 6270 3162 6277 3162 6283 3162 6283 3162 6282 Client Sample # (s	& ID-5 Most Pr Rahu Sample Lo Kitchen Sink Classro Main Multi-Pa Success St Classroo ):	rominent 1 EKanay cation/Description /Tap om 112 office prpose Room Hallway m 134 11	A Ke Sample Type Water Air Air Air Air Air Total # of S	Signature of Sam Potable/ NonPotable (Only for Waters) P NP P NP P NP P NP P NP P NP P NP P NP Samples: }]	Test Code M017 M001 M001 M001 M001 Sample	Area 100 mL 75 L 75 L 75 L 75 L 75 L 75 L 75 L 75 L 25 L	Date/Time Collected 9/1/13 4:00 PM 02/04/21 9.15 PM 02/04/21 9.25 RM 02/04/21 9.31 R-M 02/04/21 9.31 R-M 02/04/21 9.31 R-M 02/04/21 9.31 R-M	Temperature ('C) (Lab Use Only)	
M011 Bacteria Count Name of Sampler: Sample # Example A1 3162 6270 3162 6270 3162 6280 3162 6283 3162 6283 3162 6283 3162 6282 Client Sample # (s Relinquished (Clie	& ID-5 Most Pr Rahu Sample Lo Kitchen Sink Classro Main Multi-Pa Success St Classroo ):	rominent I EKANAY cation/Description /Tap om 112 office orpose Room Hallway m_134 11 1, Ekanay	A Ke Sample Type Water Air Air Air Air Air Total # of S	Signature of Sam Potable/ NonPotable (Only for Waters) P NP P NP P NP P NP P NP P NP P NP P NP	Test Code M017 M001 M001 M001 M001 Sample	Area 100 mL 75 L 75 L 75 L 75 L 75 L 75 L 75 L 75 L 25 L	Date/Time Collected 9/1/13 4:00 PM 02/04/21 9.15 BM 02/04/21 9.25 BM 02/04/21 9.25 BM 02/04/21 9.31 BM 02/04/21 9.31 BM 02/04/21 9.31 BM 02/04/21 9.31 BM 02/04/21 9.31 BM	Temperature ('C) (Lab Use Only)	
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M011 Bacteria Count Name of Sampler: Sample # Example A1 3162 6270 3162 6270 3162 6280 3162 6283 3162 6283 3162 6283 3162 6283 3162 6283 Client Sample # (s Relinquished (Clie Received (Lab):	8 ID-5 Most Pr Rahu Sample Lo Kitchen Sink Classro Main e Multi-Pa Success St Classro Classro Success St Classro Success St Classro Success St Classro	rominent 1 EKanay cation/Description /Tap om 112 office orpose Room Hallway m 134 11 1 EKanaya with, Dep \$	A Ke Sample Type Water Air Air Air Air Air Total # of S	Signature of Sam Potable/ NonPotable (Only for Waters) P NP P NP P NP P NP P NP P NP P NP Samples: 11 Date: 02/04 Date:	Test Code M017 M001 M001 M001 M001 Sample	Area 100 mL 75 L 75 L	Date/Time Collected 9/1/13 4:00 PM 02104121 9.17 BLM 02104121 9.17 BLM 02104121 9.31 FLM 02104121 9.31 FLM 02104121 9.31 FLM 02104121 9.37 FLM 02104121 9.37 FLM 02104121 9.37 FLM	Temperature (C) (Lab Use Only) (Lab Use Only) Yes / No	
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#### **Microbiology Chain of Custody**

EMSL Order Number (Lab Use Only):

21017

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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.

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Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only
162 6307	Classroom 146	Aîr		Mooi	73L	9-49 AM	
162 6339	#Tallway Inventors PL	Air		Mooi	75L	02/04/21 9.55 AM 02/04/21	
62 6286	Hallway Inventors PL 2nd floor Hallway with Elevator	Air		MODI	752	10.02 A.M	
162 6239	hym	Air		1001	75L	02/04/21 10.10 AM	
162 6275	Outside Sample	Air		Mooi	751	02/04/21 10.17 A.M 02/04/21	
62 6329	field blank	Aîr		19001	N/A	02/04/21 9-43AM	
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EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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