

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  
Kenilworth Elementary School  
12520 Kembridge Drive,  
Bowie, MD 20715

Mr. Baylor:

On December 2, 2020, and February 23, 2021 a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist conducted an indoor air quality (IAQ) evaluation at Kenilworth Elementary School, a property maintained by Prince George's County Public Schools (PGCPS) located at 12520 Kembridge Drive, Bowie, MD 20715. The inspection was performed in accordance with PGCPS contract number IFB 022-19.

### **Corrective Measures Implemented by PGCPS**

On February 23, 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 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 Kenilworth Elementary School, visited on December 2, 2020, and February 23, 2021.

**Table 1.1-Observations**

Location	Summary of Observations 12-2-2020
Main Entrance Hallway	2'x4' ceiling tiles and 1'x1' tile floor; No visual signs of microbial growth; Mild odor; Stained ceiling tiles; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Between 107 and 110	2'x4' ceiling tiles and 1'x1' 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.
In front of Classroom 212	2'x4' ceiling tiles and 1'x1' 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.
In front of Classroom 201	2'x4' ceiling tiles and 1'x1' 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.

Location	Summary of Observations 12-2-2020
In front of the Library	2'x4' ceiling tiles and 1'x1' 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	Windy

**Table 1.2-Observations**

Location	Summary of Observations 02-23-2020
Main Entrance Hallway	2'x4' ceiling tiles and 1'x1' tile floor; No visual signs of microbial growth; Mild odor; Stained ceiling tiles; No visible dust on floor/other furniture surfaces; No visible dust around ventilator; Central AC.
Between 107 and 110	2'x4' ceiling tiles and 1'x1' 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.
In front of Classroom 212	2'x4' ceiling tiles and 1'x1' 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.
In front of Classroom 201	2'x4' ceiling tiles and 1'x1' 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.
In front of the Library	2'x4' ceiling tiles and 1'x1' 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	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 within the ASHRAE recommended ranges in the representative areas.

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

Under conditions of maximum occupancy, ASHRAE Standard 62.1-2010, Appendix C, infers that the acceptable CO<sub>2</sub> upper limit is the prevailing outdoor CO<sub>2</sub> concentration plus 700 parts per million (ppm). On December 02, 2020, the outdoor (building exterior) CO<sub>2</sub> concentration was approximately 440 ppm therefore indoor concentrations should not exceed approximately 1,140 ppm (700 + 440). The maximum average interior CO<sub>2</sub> concentration detected was 721 ppm in the Main Entrance Hallway, 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: Kenilworth Elementary School, Instrumental Screening Levels  
December 2, 2020 (7:30 AM-9:30 AM)**

Sample Location	Temp °F	RH%	CO ppm	CO <sub>2</sub> ppm
Standards	ASHRAE 68 to 75°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,140
Main Entrance Hallway	68.0	25.1	0	721
Between 107 and 110	70.0	23.7	0	529
In front of Classroom 201	74.7	22.0	0	489
In front of Classroom 212	74.8	24.7	0	620
In front of the Library	71.6	23.5	0	442
Outside Exterior EV Sample	53.6	22.5	0	440

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

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

**Table 2.2: Kenilworth Elementary School, Instrumental Screening Levels  
February 23, 2021 (7:30 AM-9:30 AM)**

Sample Location	Temp °F	RH%	CO ppm	CO <sub>2</sub> ppm
Standards	ASHRAE 68 to 75°F*	ASHRAE <65%	NAAQS 9	ASHRAE 1,140
Main Entrance Hallway	64.4	33.6	0	545
Between 107 and 110	65.3	35.2	0	536
In front of Classroom 201	72.5	24.8	0	524
In front of Classroom 212	71.6	33.8	0	515
In front of the Library	63.5	31.8	0	520
Outside Exterior EV Sample	37.0	35.6	0	451

PM - Particulate Matter size      µg/m<sup>3</sup> - micrograms per cubic meter  
 °F - Degrees Fahrenheit            RH% - % Relative Humidity  
 CO - Carbon Monoxide              CO<sub>2</sub> - Carbon Dioxide  
 ppm - parts per million\* -        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.

**Tables 3.1:** summarizes airborne mold spore sampling results and locations. On December 2, 2020, total mold counts in representative samples (spore count/m<sup>3</sup> of air) in all the areas inspected were higher than the outdoor concentrations. Laboratory analysis follows this report (see attachment).

**Tables 3.2:** Summarizes airborne mold spore sampling results and locations. On February 23, 2021, total mold counts in representative samples (spore count/m<sup>3</sup> of air) in all the areas inspected were lower than the outdoor concentrations. Laboratory analysis follows this report (see attachment)

**Table 3.1: Kenilworth Elementary School - Measurements of Mold-in-Air Samples  
December 2, 2020 (7:30 AM-9:30 AM)**

<b>Spore Types</b>	<b>Main Entrance Hallway</b>	<b>Between 107 and 110</b>	<b>In front of Classroom 201</b>	<b>In front of Classroom 212</b>
<i>Alternaria (Ulocladium)</i>	-	-	-	-
<i>Ascospores</i>	40	30	10*	90
<i>Aspergillus/Penicillium</i>	1,700	16,000	4,500	3,600
<i>Basidiospores</i>	400	200	740	200
<i>Bipolaris++</i>	-	10*	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Cladosporium</i>	520	90	200	300
<i>Curvularia</i>	-	-	-	-
<i>Epicoccum</i>	-	40	-	-
<i>Fusarium</i>	-	-	-	-
<i>Ganoderma</i>	-	-	-	-
<i>Myxomycetes++</i>	-	40	-	30
<i>Pithomyces++</i>	-	-	-	-
<i>Rust</i>	10*	-	-	-
<i>Scopulariopsis/Microascus</i>	-	-	-	-
<i>Stachybotrys/Memnoniella</i>	-	-	-	-
<i>Unidentifiable Spores</i>	-	-	-	-
<i>Zygomycetes</i>	-	-	-	-
<i>Nigrospora</i>	-	-	-	-
<i>Hyphal Fragment</i>	10*	-	90	90
<i>Insect Fragment</i>	-	90	10*	10*
<i>Pollen</i>	-	-	-	-
<b>Total Fungi</b>	<b>2,670</b>	<b>16,410</b>	<b>5,460</b>	<b>4,270</b>

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

++Includes other spores with similar morphology.

**Table 3.1: Kenilworth Elementary School  
Measurements of Mold-in-Air Samples continued  
December 2, 2020 (7:30 AM-9:30 AM)**

<b>Spore Types</b>	<b>In front of the Library</b>	<b>Outside EXT EV sample</b>	<b>Field Blank</b>
<i>Alternaria (Ulocladium)</i>	10*	-	-
<i>Ascospores</i>	-	-	-
<i>Aspergillus/Penicillium</i>	8,470	200	-
<i>Basidiospores</i>	200	1,200	-
<i>Bipolaris++</i>	-	-	-
<i>Chaetomium</i>	-	-	-
<i>Cladosporium</i>	610	100	-
<i>Curvularia</i>	-	-	-
<i>Epicoccum</i>	-	40	-
<i>Fusarium</i>	-	-	-
<i>Ganoderma</i>	-	-	-
<i>Myxomycetes++</i>	40	40	-
<i>Pithomyces++</i>	-	40	-
<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>	90	-	-
<i>Insect Fragment</i>	40	-	-
<i>Pollen</i>	-	-	-
<b>Total Fungi</b>	<b>9,370</b>	<b>1,660</b>	<b>No Trace</b>

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

++Includes other spores with similar morphology.

**Table 3.2: Kenilworth Elementary School  
Measurements of Mold-in-Air Samples  
February 23, 2021 (7:30 AM-9:30 AM)**

<b>Spore Types</b>	<b>Main Entrance Hallway</b>	<b>Between 107 and 110</b>	<b>In front of Classroom 201</b>	<b>In front of Classroom 212</b>
<i>Alternaria (Ulocladium)</i>	-	-	-	-
<i>Ascospores</i>	-	-	-	-
<i>Aspergillus/Penicillium</i>	-	-	100	40
<i>Basidiospores</i>	200	40	100	200
<i>Bipolaris++</i>	-	-	-	-
<i>Chaetomium</i>	-	-	-	-
<i>Cladosporium</i>	-	-	90	440
<i>Curvularia</i>	-	-	-	-
<i>Epicoccum</i>	-	-	10*	-
<i>Fusarium</i>	-	-	-	-
<i>Ganoderma</i>	-	-	-	-
<i>Myxomycetes++</i>	-	-	40	-
<i>Pithomyces++</i>	-	-	40	-
<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*	-
<i>Insect Fragment</i>	-	-	40	-
<i>Pollen</i>	-	-	40*	-
<b>Total Fungi</b>	<b>200</b>	<b>40</b>	<b>380</b>	<b>680</b>

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

++Includes other spores with similar morphology.



**Table 3.2: Kenilworth Elementary School  
Measurements of Mold-in-Air Samples  
February 23, 2021 (7:30 AM-9:30 AM)**

<b>Spore Types</b>	<b>In front of the Library</b>	<b>Outside EXT EV sample</b>	<b>Field Blank</b>
<i>Alternaria (Ulocladium)</i>	-	-	-
<i>Ascospores</i>	10*	40	-
<i>Aspergillus/Penicillium</i>	90	-	-
<i>Basidiospores</i>	300	870	-
<i>Bipolaris++</i>	-	-	-
<i>Chaetomium</i>	-	-	-
<i>Cladosporium</i>	40*	40	-
<i>Curvularia</i>	-	-	-
<i>Epicoccum</i>	--	-	-
<i>Fusarium</i>	-	-	-
<i>Ganoderma</i>	-	-	-
<i>Myxomycetes++</i>	-	-	-
<i>Pithomyces++</i>	-	-	-
<i>Rust</i>	-	-	-
<i>Scopulariopsis/Microascus</i>	-	-	-
<i>Stachybotrys/Memnoniella</i>	-	-	-
<i>Unidentifiable Spores</i>	-	-	-
<i>Zygomycetes</i>	-	-	-
<i>Nigrospora</i>	-	-	-
<i>Hyphal Fragment</i>	-	10*	-
<i>Insect Fragment</i>	-	10*	-
<i>Pollen</i>	-	-	-
<b>Total Fungi</b>	<b>450</b>	<b>950</b>	<b>No Trace</b>

**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 December 2, 2020, total mold counts in representative area samples (spore count/m<sup>3</sup> of air) in all the areas inspected were higher than the outdoor concentrations, indicating amplified mold growth.

On February 23, 2021, total mold counts in air samples (spore count/m<sup>3</sup> 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.

10768 Baltimore Avenue Beltsville, MD 20705

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EMSL Order: 192011878

Customer ID: SALU50

Customer PO:

Project ID:

**Attention:** Indika Jayatilake  
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**Phone:** (301) 595-3783

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**Collected Date:** 12/02/2020

**Received Date:** 12/02/2020 02:58 PM

**Analyzed Date:** 12/04/2020

**Project:** 19-085 Kenilworth ES

### 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:	192011878-0001			192011878-0002			192011878-0003				
	S1	S2	S3	Hallway Main entrance			Between 110 and 107			In front of CR 212	
	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	1.5	2*	30*	0.2	2	90	2.1		
Aspergillus/Penicillium	38	1700	63.7	367	16000	97.5	83	3600	84.3		
Basidiospores	9	400	15	5	200	1.2	4	200	4.7		
Bipolaris++	-	-	-	1*	10*	0.1	-	-	-		
Chaetomium	-	-	-	-	-	-	-	-	-		
Cladosporium	12	520	19.5	2	90	0.5	6	300	7		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	1	40	0.2	-	-	-		
Fusarium	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	1	40	0.2	2*	30*	0.7		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	1*	10*	0.4	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Arthrinium	-	-	-	-	-	-	1*	10*	0.2		
Oidium	-	-	-	-	-	-	-	-	-		
Pestalotia/Pestalotiopsis	-	-	-	-	-	-	1	40	0.9		
<b>Total Fungi</b>	<b>61</b>	<b>2670</b>	<b>100</b>	<b>379</b>	<b>16410</b>	<b>100</b>	<b>99</b>	<b>4270</b>	<b>100</b>		
Hypal Fragment	1*	10*	-	-	-	-	2	90	-		
Insect Fragment	-	-	-	2	90	-	1*	10*	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-		
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	2	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	1	-	-	1	-	-	1	-		

192011878-0003 - Aspergillus conidiophores present in sample.

++ 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 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 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 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. Beltsville, MD AIHA-LAP, LLC-EMLAP Accredited #102891

Initial report from: 12/05/2020 03:32 PM

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



# EMSL Analytical, Inc.

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

Lab Sample Number: Client Sample ID: Volume (L): Sample Location:	192011878-0004			192011878-0005			192011878-0006		
	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
S4 75 In front of CR 201				S5 75 In front of the Library			S6 75 Outside		
<b>Spore Types</b>									
Alternaria (Ulocladium)	-	-	-	1*	10*	0.1	-	-	-
Ascospores	1*	10*	0.2	-	-	-	-	-	-
Aspergillus/Penicillium	103	4500	82.4	194	8470	90.4	4	200	12
Basidiospores	17	740	13.6	4	200	2.1	27	1200	72.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	4	200	3.7	14	610	6.5	3	100	6
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	1	40	2.4
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	40	0.4	1	40	2.4
Pithomyces++	-	-	-	-	-	-	1	40	2.4
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Arthrinium	-	-	-	-	-	-	1	40	2.4
Oidium	-	-	-	1	40	0.4	-	-	-
Pestalotia/Pestalotiopsis	1*	10*	0.2	-	-	-	-	-	-
<b>Total Fungi</b>	<b>126</b>	<b>5460</b>	<b>100</b>	<b>215</b>	<b>9370</b>	<b>100</b>	<b>38</b>	<b>1660</b>	<b>100</b>
Hypchal Fragment	2	90	-	2	90	-	-	-	-
Insect Fragment	1*	10*	-	1	40	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	3	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

192011878-0004 - Penicillium/Talaromyces-like conidiophores present in sample.

192011878-0005 - Aspergillus conidiophores present in sample.

++ 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: 12/05/2020 03:32 PM

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



# EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705

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

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

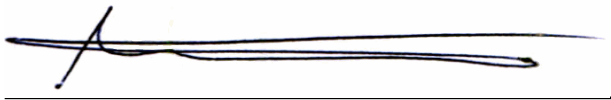
<b>EMSL Order:</b> 192011878
<b>Customer ID:</b> SALU50
<b>Customer PO:</b>
<b>Project ID:</b>

<b>Attention:</b> Indika Jayatilake SaLUT 1818 New York Avenue, NE Suite 231 Washington, DC 20002	<b>Phone:</b> (301) 595-3783 <b>Fax:</b> (301) 595-3787 <b>Collected Date:</b> 12/02/2020 <b>Received Date:</b> 12/02/2020 02:58 PM <b>Analyzed Date:</b> 12/04/2020
<b>Project:</b> 19-085 Kenilworth ES	

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

<b>Lab Sample Number:</b>	192011878-0007		
<b>Client Sample ID:</b>	S7		
<b>Volume (L):</b>			
<b>Sample Location:</b>	Field blank		
<b>Spore Types</b>	<b>Raw Count</b>	<b>Count/M³</b>	<b>% of Total</b>
Alternaria (Ulocladium)	-	-	-
Ascospores	-	-	-
Aspergillus/Penicillium	-	-	-
Basidiospores	-	-	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	-	-
Curvularia	-	-	-
Epicoccum	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Arthrinium	-	-	-
Oidium	-	-	-
Pestalotia/Pestalotiopsis	-	-	-
<b>Total Fungi</b>	-	<b>No Trace</b>	-
Hyphal Fragment	-	-	-
Insect Fragment	-	-	-
Pollen	-	-	-
Analyt. Sensitivity 600x	-	0	-
Analyt. Sensitivity 300x	-	0*	-
Skin Fragments (1-4)	-	-	-
Fibrous Particulate (1-4)	-	-	-
Background (1-5)	-	-	-

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



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

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

Initial report from: 12/05/2020 03:32 PM

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



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

EMSL Order: 192101599

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 Kenilworth Elementary School

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

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

**Collected Date:** 02/23/2021

**Received Date:** 02/23/2021 02:37 PM

**Analyzed Date:** 02/25/2021

### 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:	192101599-0001 3019 9819 75 Hallway Main entrance			192101599-0002 3019 9837 75 Between 110 & 107			192101599-0003 3019 9853 75 In front of CR 212			
	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	-	-	-	-	-	-	3	100	26.3	
Basidiospores	4	200	100	1	40	100	3	100	26.3	
Bipolaris++	-	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	2	90	23.7	
Curvularia	-	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	1*	10*	2.6	
Fusarium	-	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	1	40	10.5	
Pithomyces++	-	-	-	-	-	-	1	40	10.5	
Rust	-	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-	-
Bispora	-	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>4</b>	<b>200</b>	<b>100</b>	<b>1</b>	<b>40</b>	<b>100</b>	<b>11</b>	<b>380</b>	<b>100</b>	
Hyphal Fragment	-	-	-	-	-	-	1*	10*	-	
Insect Fragment	-	-	-	-	-	-	1	40	-	
Pollen	-	-	-	-	-	-	3*	40*	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	2	-	-	2	-	-	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.

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: 02/25/2021 05:03 PM

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



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EMSL Order: 192101599

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 Kenilworth Elementary School

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

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

**Collected Date:** 02/23/2021

**Received Date:** 02/23/2021 02:37 PM

**Analyzed Date:** 02/25/2021

### 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:	192101599-0004 3019 9822 75 In front of CR 201			192101599-0005 3019 9815 75 In front of library			192101599-0006 3019 9825 75 Outside			
	Spore Types	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total	Raw Count	Count/M <sup>3</sup>	% of Total
Alternaria (Ullocladium)	-	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	1*	10*	2.2	1	40	4.2	
Aspergillus/Penicillium	1	40	5.9	2	90	20	-	-	-	
Basidiospores	5	200	29.4	8	300	66.7	20	870	91.6	
Bipolaris++	-	-	-	-	-	-	-	-	-	
Chaetomium	-	-	-	-	-	-	-	-	-	
Cladosporium	10	440	64.7	3*	40*	8.9	1	40	4.2	
Curvularia	-	-	-	-	-	-	-	-	-	
Epicoccum	-	-	-	-	-	-	-	-	-	
Fusarium	-	-	-	-	-	-	-	-	-	
Ganoderma	-	-	-	-	-	-	-	-	-	
Myxomycetes++	-	-	-	-	-	-	-	-	-	
Pithomyces++	-	-	-	-	-	-	-	-	-	
Rust	-	-	-	-	-	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-	
Unidentifiable Spores	-	-	-	-	-	-	-	-	-	
Zygomycetes	-	-	-	-	-	-	-	-	-	
Bispora	-	-	-	1*	10*	2.2	-	-	-	
<b>Total Fungi</b>	<b>16</b>	<b>680</b>	<b>100</b>	<b>15</b>	<b>450</b>	<b>100</b>	<b>22</b>	<b>950</b>	<b>100</b>	
Hyphal Fragment	-	-	-	-	-	-	1*	10*	-	
Insect Fragment	-	-	-	-	-	-	1*	10*	-	
Pollen	-	-	-	-	-	-	-	-	-	
Analyt. Sensitivity 600x	-	44	-	-	44	-	-	44	-	
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-	
Skin Fragments (1-4)	-	1	-	-	2	-	-	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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Initial report from: 02/25/2021 05:03 PM

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EMSL Order: 192101599

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 Kenilworth Elementary School

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

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

**Collected Date:** 02/23/2021

**Received Date:** 02/23/2021 02:37 PM

**Analyzed Date:** 02/25/2021

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

<b>Lab Sample Number:</b>	192101599-0007		
<b>Client Sample ID:</b>	3019 9818		
<b>Volume (L):</b>			
<b>Sample Location:</b>	Field Blank		
<b>Spore Types</b>	<b>Raw Count</b>	<b>Count/M<sup>3</sup></b>	<b>% of Total</b>
Alternaria (Ulocladium)	-	-	-
Ascospores	-	-	-
Aspergillus/Penicillium	-	-	-
Basidiospores	-	-	-
Bipolaris++	-	-	-
Chaetomium	-	-	-
Cladosporium	-	-	-
Curvularia	-	-	-
Epicoccum	-	-	-
Fusarium	-	-	-
Ganoderma	-	-	-
Myxomycetes++	-	-	-
Pithomyces++	-	-	-
Rust	-	-	-
Scopulariopsis/Microascus	-	-	-
Stachybotrys/Memnoniella	-	-	-
Unidentifiable Spores	-	-	-
Zygomycetes	-	-	-
Bispora	-	-	-
<b>Total Fungi</b>	<b>No Trace</b>		
Hyphal Fragment	-	-	-
Insect Fragment	-	-	-
Pollen	-	-	-
Analyt. Sensitivity 600x	-	0	-
Analyt. Sensitivity 300x	-	0*	-
Skin Fragments (1-4)	-	-	-
Fibrous Particulate (1-4)	-	-	-
Background (1-5)	-	-	-

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

Abubakar Barry, Microbiology Laboratory Manager  
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Initial report from: 02/25/2021 05:03 PM

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



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRADING

# Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

192011878

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-0262

Company Name: <b>Salut Inc</b>		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:			Country:		
Report To (Name): <b>Indika Jayatilake</b>		Telephone #:					
Email Address: <b>ijayatilake@salutinc.com</b>		Fax #:			Purchase Order:		
Project Name/Number: <b>19-085 - Kenilworth ES</b>		Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email					
U.S. State Samples Taken: <b>MD</b>		Project Zip Code: <b>20755</b>		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential			
Sterile, Sodium Thiosulfate Preserved Bottle Used: <input type="checkbox"/> Biocide Used in Source (specify): <input type="checkbox"/>							
Public Water Supply Samples: <input type="checkbox"/> Note: All results may automatically be reported to DOH if required by state.							
Turnaround Time (TAT) Options - Please Check							
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week	
<b>Microbiology Test Codes</b>							
M001 Air-O-Cell M030 Micro 5 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 <i>Penicillium</i> , <i>Aspergillus</i> , <i>Cladosporium</i> , <i>Stachybotrys</i> Species ID & Count) M007 Culturable fungi - Surface Samples (Genus ID & Count) M008 Culturable fungi - Surface Samples (Includes <i>Penicillium</i> , <i>Aspergillus</i> , <i>Cladosporium</i> , <i>Stachybotrys</i> Species ID & Count) M009 Bacteria Culture Gram Stain & Count M010 Bacteria Count & ID - 3 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent		M174 MoldSnap M032 Allergenco-D M012 <i>Pseudomonas aeruginosa</i> (P/A***) M024 <i>Pseudomonas aeruginosa</i> (MFT*) M015 Heterotrophic Plate Count M017 Total Coliform & <i>E. coli</i> (Colilert P/A***) M018 Total Coliform & <i>E. coli</i> (MFT*) M114 Total Coliform & <i>E. coli</i> Enumeration (Colilert MPN**) M019 Fecal Coliform (MFT*) M020 Fecal <i>Streptococcus</i> (MFT*) M029 <i>Enterococci</i> (MFT*) M129 <i>Enterococci</i> (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 <i>Methicillin-resistant Staph. aureus</i> (MRSA) M031 Rapid-growing non-TB <i>Mycobacteria</i> Detection & Enumeration M014 Endotoxin Analysis M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite) Other See Analytical Price Guide <i>Legionella</i> Analysis. Please use EMSL <i>Legionella</i> COC			
*MFT= Membrane Filtration Technique **MPN= Most Probable Number ***P/A= Presence/Absence							
Name of Sampler: <b>Shenal Dias</b>		Signature of Sampler:					
Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
Example A1	Kitchen Sink/Tap	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M017	100 mL	9/1/13 4:00 PM	
S1	Hallway main entrance	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75 mL	12/02/20	
S2	Between 40 and 107	"	<input type="checkbox"/> P <input type="checkbox"/> NP	"	"	"	
S3	In front of CR 212	"	<input type="checkbox"/> P <input type="checkbox"/> NP	"	"	"	
S4	In front of CR 201	"	<input type="checkbox"/> P <input type="checkbox"/> NP	"	"	"	
S5	In front of the Library	"	<input type="checkbox"/> P <input type="checkbox"/> NP	"	"	"	
Client Sample # (s):		Total # of Samples: <b>7</b>		Samples Received Chilled? Yes / No (Lab Use Only)			
Relinquished (Client):		Date:		Time:			
Received (Lab):		Date:		Time:			
Comments/Special Instructions:							RECEIVED ENMSL ANALYTICAL, INC. BELTSVILLE, MD 20 DEC - 2 P 2:58

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# Microbiology Chain of Custody



EMSL Order Number (Lab Use Only):

Beltsville, MD 20705

PHONE: (301) 937-5700

FAX: (301) 937-5701

EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

192101599

Company Name: SaLUT		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> 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: PGPCS IAQ Reports 19-035		KENILWORTH ELEMENTARY SCHOOL		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email							
U.S. State Samples Taken: MD		Project Zip Code:		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential							
Sterile, Sodium Thiosulfate Preserved Bottle Used: <input type="checkbox"/> Biocide Used in Source (specify): <input type="checkbox"/>											
Public Water Supply Samples: <input type="checkbox"/> Note: All results may automatically be reported to DOH if required by state.											
Turnaround Time (TAT) Options - Please Check											
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week											
<b>Microbiology Test Codes</b>											
M001 Air-O-Cell M030 Micro 5 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 <i>Penicillium</i> , <i>Aspergillus</i> , <i>Cladosporium</i> , <i>Stachybotrys</i> Species ID & Count) M007 Culturable fungi - Surface Samples (Genus ID & Count) M008 Culturable fungi - Surface Samples (Includes <i>Penicillium</i> , <i>Aspergillus</i> , <i>Cladosporium</i> , <i>Stachybotrys</i> Species ID & Count) M009 Bacteria Culture Gram Stain & Count M010 Bacteria Count & ID - 3 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent		M174 MoldSnap M032 Allergenco-D		M012 <i>Pseudomonas aeruginosa</i> (PIA***) M024 <i>Pseudomonas aeruginosa</i> (MFT*) M015 Heterotrophic Plate Count M017 Total Coliform & <i>E. coli</i> (Colilert PIA***) M018 Total Coliform & <i>E. coli</i> (MFT*) M114 Total Coliform & <i>E. coli</i> Enumeration (Colilert MPN**) M019 Fecal Coliform (MFT*) M020 Fecal <i>Streptococcus</i> (MFT*) M029 <i>Enterococci</i> (MFT*) M129 <i>Enterococci</i> (Enterolert PIA***) M180 Real Time qPCR-ERMI 36 Panel M025 Sewage Screen -Water (MFT*)			M115 Sewage Screen - Water (PIA***) M116 Sewage Screen - Water (MPN**) M117 Sewage Screen - Swab (PIA***) M013 Sewage Screen - Swab (MFT*) M133 <i>Methicillin-resistant Staph. aureus</i> (MRSA) M031 Rapid-growing non-TB <i>Mycobacteria</i> Detection & Enumeration M014 Endotoxin Analysis M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite) Other See Analytical Price Guide <i>Legionella</i> Analysis Please use EMSL <i>Legionella</i> COC				
*MFT= Membrane Filtration Technique **MPN= Most Probable Number ***PIA= Presence/Absence											
Name of Sampler: Rahul Ekanayake				Signature of Sampler:							
Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)				
Example A1	Kitchen Sink/Tap	Water	<input checked="" type="checkbox"/> P <input type="checkbox"/> NP	M017	100 mL	9/1/13 4:00 PM					
3019 9819	Hallway Main Entrance	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	2/23/21 09:36					
3019 9837	Between 110 & 107	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	2/23/21 09:31					
3019 9853	Infront of CR 212	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	02/23/21 09:31					
3019 9822	Infront of CR 201	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	02/23/21 09:37					
3019 9815	Infront of library	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	2/23/21 09:43					
Client Sample # (s): 07		Total # of Samples: 07		Samples Received Chilled? Yes/No (Lab Use Only)							
Relinquished (Client): Rahul Ekanayake		Date: 02/23/21		Time: 2:00 P.M.							
Received (Lab):		Date:		Time:							
Comments/Special Instructions:											

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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